

## Application References Summary

Cat.No.	Product Name	Reference
11002	GSK3 $\beta$ (Phospho-Ser9) Antibody	Cong REN, Jia-Mou LI, Xin LIN (2010) LIPUS Enhance Elongation of Neurites in Rat Cortical Neurons through Inhibition of GSK-3 $\beta$ . Biomedical and Environmental Sciences, Volume 23, Issue 3, Pages 244-249
11002	GSK3 $\beta$ (Phospho-Ser9) Antibody	Yingjuan Yang, Jinzeng Yang, Rongxin Liu, Huixia Li and Xiao Luo, et al. Accumulation of $\beta$ -catenin by lithium chloride in porcine myoblast cultures accelerates cell differentiation. Molecular Biology Reports, 2011, Volume 38, Number 3, Pages 2043-2049
11002	GSK3b(Phospho-Ser9) Antibody	Estefanía de Munck, Emma Muñoz-Sáez, Begoña G. Miguel, M. Teresa Solas, et al (2013) B-N-methylamino-L-alanine causes neurological and pathological phenotypes mimicking Amyotrophic Lateral Sclerosis (ALS): The first step towards an experimental model for sporadic ALS. environmental toxicology and pharmacology 36:243–255
11002	GSK3b(Phospho-Ser9) Antibody	Yu-fei Pan, Li-wei Dong, Min Wang, Guang-zhen Yang, et al. (2013) Signal regulatory protein $\alpha$ negatively regulates mast-cell activation following Fc $\epsilon$ RI aggregation. Eur. J. Immunol. 43: 1598–1607
11002	GSK3b(Phospho-Ser9) Antibody	Lei Hana, Yang Yanga, Xiao Yuea, Kai Huang, et al. (2010) Inactivation of PI3K/AKT signaling inhibits glioma cell growth through modulation of $\beta$ -catenin-mediated transcription. BRAIN RESEARCH 1366:9–17
11002	GSK3b(Phospho-Ser9) Antibody	Wen-Fei Tan, Xue-Zhao Cao, Jun-Ke Wang, Huang-Wei Lv, et al. (2010) Protective effects of lithium treatment for spatial memory deficits induced by tau hyperphosphorylation in splenectomized rats. Clinical and Experimental Pharmacology and Physiology. 37:1010–1015
11002	GSK3b(Phospho-Ser9) Antibody	Jiamou Li, Hua Zhang, Cong Ren. (2012) Effect of Low-Intensity Pulsed Ultrasound on Nerve Repair. Tissue Regeneration - From Basic Biology to Clinical Application, Prof. ISBN: 978-953-51-0387-5,
11005	PDK1 (Phospho-Ser241) Antibody	Chao Han, Remi Quirion, Wenhua Zheng et al (2011) Glutamate attenuates IGF-1 receptor signaling via NR2B containing NMDA receptors and neuronal nitric oxide synthase. Biochemical and Biophysical Research Communications, In Press,
11005	PDK1(Phospho-Ser241) Antibody	Dan Liu, Yi Huang, Bojiang Chen, Jing Zeng, et al. (2011) Activation of Mammalian Target of Rapamycin Pathway Confers Adverse Outcome in Non-small Cell Lung Carcinoma. DOI: 10.1002/cncr.25959
11006	Raf1(Phospho-Ser259) Antibody	Zhi-Xin Qiu, Lei Wang, Juan Han, Dan Liu, et al. (2012) Prognostic impact of Raf-1 and p-Raf-1 expressions for poor survival rate in non-small cell lung cancer. Cancer Sci. vol. 103 no. 10 pp. 1774–1779
11007	GSK3 $\alpha$ (Phospho-Ser21) Antibody	Dan Liu, Yi Huang, Jing Zeng, Bojiang Chen and Na Huang, et al. Down-regulation of JAK1 by RNA interference inhibits growth of the lung cancer cell line A549 and interferes with the PI3K/mTOR pathway. Journal of

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		Cancer Research and Clinical Oncology, 2011, Volume 137, Number 11, Pages 1629-164
11011	NFκB-p65 (Phospho-Ser276) Antibody	Anneleen Spooren, Krzysztof Kolmus, Linda Vermeulen, et al. (2010) Hunting for Serine 276-phosphorylated p65. Journal of Biomedicine and Biotechnology, 2010, Article ID 275892, 9 doi:10.1155/2010/275892
11011	NFκB-p65(Phospho-Ser276) Antibody	Xiaoping Cai, Saul Benedict Freedman, Paul Kenneth Witting. (2013) Serum amyloid A stimulates cultured endothelial cells to migrate and proliferate: inhibition by the multi-kinase inhibitor BIBF1120. doi: 10.1111/1440-1681.12148
11014	NFκB-p65 (Phospho-Ser536) Antibody	Jitakshi De, Robert E. Brown (2010) Tissue-microarray based immunohistochemical analysis of survival pathways in nodular sclerosing classical Hodgkin lymphoma as compared with Non-Hodgkin's lymphoma. Int J Clin Exp Med, 3(1):55-68
11015	NFκB-p100(Phospho-Ser866) Antibody	Chen Shen & Xin-liang Zhao & Weina Ju & Xiao-bing Zou & Li-rong Huo & Wu Yan & Jun-hua Zou & Guo-di Yan & Edmund C. Jenkins & W. Ted Brown & Nanbert Zhong. A Proteomic Investigation of B Lymphocytes in an Autistic Family: A Pilot Study of Exposure to Natural Rubber Latex (NRL) May Lead to Autism. J Mol Neurosci (2011) 43:443–452
11021	c-Jun(Phospho-Thr91) Antibody	Manujendra N. Saha <sup>1,2</sup> , Hua Jiang <sup>3</sup> , Yijun Yang <sup>1,2</sup> , Xiaoyun Zhu <sup>1,2</sup> , Xiaoming Wang <sup>4</sup> , Aaron D. Schimmer <sup>4</sup> , Lugui Qiu <sup>5</sup> , Hong Chang, Targeting p53 via JNK Pathway: A Novel Role of RITA for Apoptotic Signaling in Multiple Myeloma, January 2012   Volume 7   Issue 1   e30215
11024	c-Jun (Phospho-Thr239) Antibody	Soichiro Yamamura, Kazumori Kawakami, Hiroshi Hirata, et al. (2010) Oncogenic Functions of Secreted Frizzled-Related Protein 2 in Human Renal Cancer. <i>Molecular Cancer Therapeutics</i>
11025	c-Jun (Phospho-Ser243) Antibody	Soichiro Yamamura, Kazumori Kawakami, Hiroshi Hirata, et al. (2010) Oncogenic Functions of Secreted Frizzled-Related Protein 2 in Human Renal Cancer. <i>Molecular Cancer Therapeutics</i>
11026	JunB(Phospho-Ser79) Antibody	Raffi Vartanian <sup>1</sup> , Janine Masri, Jheralyn Martin, Cheri Cloninger, et al. (2010) AP-1 Regulates Cyclin D1 and c-MYC Transcription in an AKT-Dependent Manner in Response to mTOR Inhibition: Role of AIP4/Itch-Mediated JUNB Degradation. American Association for Cancer Research. DOI: 10.1158/1541-7786
11027	JunB(Phospho-Ser259) Antibody	Raffi Vartanian <sup>1</sup> , Janine Masri, Jheralyn Martin, Cheri Cloninger, et al. (2010) AP-1 Regulates Cyclin D1 and c-MYC Transcription in an AKT-Dependent Manner in Response to mTOR Inhibition: Role of AIP4/Itch-Mediated JUNB Degradation. American Association for Cancer Research. DOI: 10.1158/1541-7786
11039	MEF2A (Phospho-Thr312) Antibody	K Satoh, J Ohnishi, A Sato, et al. (2007) Nemo-Like Kinase-Myocyte Enhancer Factor 2A Signaling Regulates Anterior Formation in Xenopus Development. <i>Molecular and Cellular Biology</i> , 27(21):7623-30.

## Application References Summary

11044	STAT1 (Phospho-Tyr701) Antibody	Jelke J. Fros, Wen Jun Liu, Natalie A. Prow, et al (2010) Chikungunya virus nonstructural protein 2 inhibits type I/II interferon-stimulated JAK-STAT signaling. <i>Journal of Virology</i> , 84(20):10877-10887
11044	STAT1 (Phospho-Tyr701) Antibody	Hirokazu Hara, Yoko Nakamura, Masayuki Ninomiya, et al (2011) Inhibitory effects of chalcone glycosides isolated from <i>Brassica rapa</i> L. 'hidabeni' and their synthetic derivatives on LPS-induced NO production in microglia. <i>Bioorganic &amp; Medicinal Chemistry</i> , Volume 19, Issue 18, Pages 5559-5568
11044	STAT1(Phospho-Tyr701) Antibody	C.-C.E. Lan, C.-S. Wu, S.-M. Huang, H.-Y. Kuo, et al. (2012) High-glucose environment reduces human b-defensin-2 expression in human keratinocytes: implications for poor diabetic wound healing. <i>British Association of Dermatologists</i> . 166, pp1221–1229
11044	STAT1(Phospho-Tyr701) Antibody	Hsin-Chien Chen,1,2 Hsin-I Ma,1,3 Huey-Kang Sytwu,1,4 Hsing-Won Wang, Chia-Chi V. Chen,5 Shu-Chen Liu,2 Chi-Huang Chen,6 Hang-Kang Chen, and Chih-Hung Wang, Neural Stem Cells Secrete Factors That Promote Auditory Cell Proliferation Via a Leukemia Inhibitory Factor Signaling Pathway, <i>Journal of Neuroscience Research</i> 88:3308–3318 (2010)
11045	STAT3 (Phospho-Tyr705) Antibody	Yuan Guogang, Lu Qian, Ming Shi (2008) HER2-dependent MMP-7 expression is mediated by activated STAT3. <i>Cellular Signalling</i> , 20:1284–1291
11045	STAT3 (Phospho-Tyr705) Antibody	H Yamaguchi, J Zhu, T Yu, et al. (2006) Low-level bisphenol A increases production of glial fibrillary acidic protein in differentiating astrocyte progenitor cells through excessive STAT3 and Smad1 activation. <i>Toxicology</i> , 226:131-142.
11045	STAT3 (Phospho-Tyr705) Antibody	Yamaguchi, J Zhu, T Yu, et al. (2007) Serum-free mouse embryo cells generate a self-sustaining feedback loop for an astrocyte marker protein and respond to cytokines and bisphenol A in accordance with the subtle difference in their differentiation state. <i>Cell Biology International</i> , 31(6):638-644.
11045	STAT3 (Phospho-Tyr705) Antibody	Li-Nan Ren, Qing-Fang Li, Feng-Jun Xiao, et al (2009) Endocrine glands-derived vascular endothelial growth factor protects pancreatic cancer cells from apoptosis via upregulation of the myeloid cell leukemia-1 protein. <i>Biochemical and Biophysical Research Communications</i> 386:35–39
11045	STAT3 (Phospho-Tyr705) Antibody	Jian-Guo Zhang, Jing Zhao, and Yan Xin, et al (2010) Significance and relationship between Cripto-1 and p-STAT3 expression in gastric cancer and precancerous lesions. <i>World J Gastroenterol</i> . 16(5): 571–577.
11045	STAT3 (Phospho-Tyr705) Antibody	Takuya Takeichi, Kazumitsu Sugiura, Yoshinao Muro, et al (2010) Overexpression of LEDGF/DFS70 Induces IL-6 via p38 Activation in HaCaT Cells, Similar to that Seen in the Psoriatic Condition. <i>Journal of Investigative Dermatology</i> 130, 2760-2767
11045	STAT3 (Phospho-Tyr705) Antibody	Emilio García-Prieto, Adrián González-López, Sandra Cabrera, et al (2010) Resistance to Bleomycin-Induced Lung Fibrosis in MMP-8 Deficient Mice Is Mediated by Interleukin-10. <i>PLoS one</i> , 5(10): e13242.

## Application References Summary

11045	STAT3(Phospho-Tyr705) Antibody	Libing Ma, Jinxiu Li, Guyi Wang, Subo Gong, et al.(2013) Atrial natriuretic peptide suppresses Th17 development through regulation of cGMP-dependent protein kinase and PI3K–Akt signaling pathways. <i>Regulatory Peptides</i> . 181:9–16
11045	STAT3(Phospho-Tyr705) Antibody	Feng-Ze Wanga,b, Peng-Jiaoc, Na-Na Yangc, Chuang-Yuana, Ya-Li Zhaoa, Qiang-Qiang Liua, Hong-Rong Fei d, Ji-Guo Zhang, PF-04691502 triggers cell cycle arrest, apoptosis and inhibits the angiogenesis in hepatocellular carcinoma cells, <i>Toxicology Letters</i> 220 (2013) 150– 156
11046	STAT3 (Phospho-Ser727) Antibody	H Yamaguchi, J Zhu, T Yu, et al. (2006) Low-level bisphenol A increases production of glial fibrillary acidic protein in differentiating astrocyte progenitor cells through excessive STAT3 and Smad1 activation. <i>Toxicology</i> , 226:131-142.
11046	STAT3 (Phospho-Ser727) Antibody	Yamaguchi, J Zhu, T Yu, et al. (2007) Serum-free mouse embryo cells generate a self-sustaining feedback loop for an astrocyte marker protein and respond to cytokines and bisphenol A in accordance with the subtle difference in their differentiation state. <i>Cell Biology International</i> , 31(6):638-644.
11046	STAT3 (Phospho-Ser727) Antibody	Jian-Guo Zhang, Jing Zhao, and Yan Xin, et al (2010) Significance and relationship between Cripto-1 and p-STAT3 expression in gastric cancer and precancerous lesions. <i>World J Gastroenterol</i> . 16(5): 571–577.
11046	STAT3(Phospho-Ser727) Antibody	ANIRBAN MAJUMDER, SASWATI BANERJEE, JOSHUA A. HARRILL, DAVID W. MACHACEK, et al (2012) Neurotrophic Effects of Leukemia Inhibitory Factor on Neural Cells Derived from Human Embryonic Stem Cells. <i>STEM CELLS</i> . 30:2387–2399
11046	STAT3(Phospho-Ser727) Antibody	Heng-Chao Yu, Hong-Yan Qin, Fei He, Lin Wang, et al. (2011) Canonical Notch Pathway Protects Hepatocytes from Ischemia/Reperfusion Injury in Mice by Repressing Reactive Oxygen Species Production Through JAK2/STAT3 Signaling. <i>HEPATOLOGY</i> , Vol. 54, No. 3, 979-988
11046	STAT3(Phospho-Ser727) Antibody	Feng-Ze Wanga,b, Peng-Jiaoc, Na-Na Yangc, Chuang-Yuana, Ya-Li Zhaoa, Qiang-Qiang Liua, Hong-Rong Fei d, Ji-Guo Zhang, PF-04691502 triggers cell cycle arrest, apoptosis and inhibits the angiogenesis in hepatocellular carcinoma cells, <i>Toxicology Letters</i> 220 (2013) 150– 156
11048	STAT5a(Phospho-Tyr694) Antibody	Drechsler J, Grotzinger J, Hermanns HM (2012) Characterization of the Rat Oncostatin M Receptor Complex Which Resembles the Human, but Differs from the Murine Cytokine Receptor. <i>PLoS ONE</i> 7(8): e43155. doi:10.1371/journal.pone.0043155
11052	anti-phospho CREB antibody	Tomasz Boczek, Anna Kozaczuk, Bozena Ferenc, Michalina Kosiorek and Slawomir Pikula, et al. Gene expression pattern in PC12 cells with reduced PMCA2 or PMCA3 isoform: selective up-regulation of calmodulin and neuromodulin. <i>Molecular and Cellular Biochemistry</i> , 12 September 2011

## Application References Summary

11054	Akt (Phospho-Ser473) Antibody	Zhi Wang, Guotong Xu, Yalan Wu, et al. (2007) Neuregulin-1 enhances differentiation of cardiomyocytes from embryonic stem cells. <i>Medical and Biological Engineering and Computing</i> , 47:41–48
11054	Akt (Phospho-Ser473) Antibody	Seyoon Kim, Yong Zu Lee, Yu Sam Kim, et al (2008) A Proteomic approach for protein-profiling the oncogenic ras induced transformation (H-, K-, and N-Ras) in NIH/3T3 mouse embryonic fibroblasts. <i>Proteomics</i> , 8 (15), 3082 - 3093
11054	Akt (Phospho-Ser473) Antibody	Young Yil Bahk, Ick-Hyun Cho, Tong Soo Kim. (2008) A Cross-talk between oncogenic Ras and tumor suppressor PTEN through FAK Tyr861 phosphorylation in NIH/3T3 mouse embryonic fibroblasts. <i>Biochemical and Biophysical Research Communications</i> , 377:1199–1204.
11054	Akt (Phospho-Ser473) Antibody	Hui Zhou, Jing Zhao, Xujia Zhang. (2009) Inhibition of uncoupling protein 2 by genipin reduces insulin-stimulated glucose uptake in 3T3-L1 adipocytes. <i>Archives of Biochemistry and Biophysics</i> , 486:88–93
11054	Akt (Phospho-Ser473) Antibody	Jing Zhang, Osamu Yamada, Yoshihisa Matsushita, et al. (2009) Transactivation of human osteopontin promoter by human T-cell leukemia virus type 1-encoded Tax protein. <i>Leukemia Research</i> in press.
11054	Akt (Phospho-Ser473) Antibody	Li-Nan Ren, Qing-Fang Li, Feng-Jun Xiao, et al (2009) Endocrine glands-derived vascular endothelial growth factor protects pancreatic cancer cells from apoptosis via upregulation of the myeloid cell leukemia-1 protein. <i>Biochemical and Biophysical Research Communications</i> 386 (2009) 35–39
11054	Akt(Phospho-Ser473) Antibody	Ning LI, Geng-tao LIU. (2010) The novel squamosamide derivative FLZ enhances BDNF/TrkB/CREB signaling and inhibits neuronal apoptosis in APP/PS1 mice. <i>Acta Pharmacologica Sinica</i> . 31: 265–272
11054	Akt (Phospho-Ser473) Antibody	Sheng-Li Lin, Li-Ying Yan, Xin-Tian Zhang, et al. (2010) ER-a36, a Variant of ER-a, Promotes Tamoxifen Agonist Action in Endometrial Cancer Cells via the MAPK/ERK and PI3K/Akt Pathways. <i>PLoS ONE</i> 5(2): e9013. doi:10.1371/journal.pone.0009013
11054	Akt (Phospho-Ser473) Antibody	Chao Han, Remi Quirion, Wenhua Zheng et al (2011) Glutamate attenuates IGF-1 receptor signaling via NR2B containing NMDA receptors and neuronal nitric oxide synthase. <i>Biochemical and Biophysical Research Communications</i> , In Press
11054	Akt(Phospho-Ser473) Antibody	Heng-Chao Yu, Hong-Yan Qin, Fei He, Lin Wang, et al. (2011) Canonical Notch Pathway Protects Hepatocytes from Ischemia/Reperfusion Injury in Mice by Repressing Reactive Oxygen Species Production Through JAK2/STAT3 Signaling. <i>HEPATOLOGY</i> , Vol. 54, No. 3, 979-988
11054	Akt(Phospho-Ser473) Antibody	Hu Ma, Quan Yao, An-Mei Zhang, Sheng Lin, Xin-Xin Wang, Lei Wu, Jian-Guo Sun, and Zheng-Tang Chen (2011) The Effects of Artesunate on the Expression of EGFR and ABCG2 in A549 Human Lung Cancer Cells and a Xenograft Model. <i>Molecules</i> 2011, 16, 10556-10569; doi:10.3390/molecules161210556

## Application References Summary

11054	Akt(Phospho-Ser473) Antibody	Marc Vendrell, Anabel Molero, Sergio Gonzalez, Kamil Perez-Capote, et al. (2011) Biotin Ergopeptide Probes for Dopamine Receptors. <i>J. Med. Chem.</i> 54, 1080–1090
11054	Akt (Phospho-Ser473) Antibody	Yingjia Guo, Tong Yang, Jun Lu, et al (2011) Rb1 postconditioning attenuates liver warm ischemia–reperfusion injury through ROS-NO-HIF pathway. <i>Life Sciences</i> , Volume 88, Issues 13-14, Pages 598-605
11054	Akt(Phospho-Ser473) Antibody	Lucía Callén, Estefanía Moreno, Pedro Barroso-Chinea, David Moreno-Delgado, Antoni Cortés, et al (2012) Cannabinoid Receptors CB1 and CB2 Form Functional Heteromers in Brain. <i>THE JOURNAL OF BIOLOGICAL CHEMISTRY</i> VOL. 287, NO. 25, pp. 20851–20865,
11054	Akt(Phospho-Ser473) Antibody	Fang Wang a,b,1, Ting Li a,1, Bin Zhang c,1, Hong Li a, Qiong Wua, Li Yang b,†, Yongzhan Nie a, Kaichun Wua, Yongquan Shi a,†, Daiming Fan, <i>Biochemical and Biophysical Research Communications</i> , <i>Biochemical and Biophysical Research Communications</i> 434 (2013) 688–694
11054	anti-phospho-STAT3	Heng-Fei Luan <sup>1*</sup> , Zhi-Bin Zhao <sup>1*</sup> , Qi-Hong Zhao <sup>2</sup> , Pin Zhu <sup>1</sup> , Ming-Yu Xiu <sup>1</sup> and Yong Ji, Hydrogen sulfide postconditioning protects isolated rat hearts against ischemia and reperfusion injury mediated by the JAK2/STAT3 survival pathway
11054	Akt(Phospho-Ser473) Antibody	Hongxia Zhanga,1, Junjie Houb,1, Ruina Cuia, Xuejiang Guoc, Zhimin Shia, Fuquan Yangb, Jiayin Daia, Phosphoproteome analysis reveals an important role for glycogen synthase kinase-3 in perfluorododecanoic acid-induced rat liver toxicity, <i>Toxicology Letters</i> 218 (2013) 61– 69
11054	Akt(Phospho-Ser473) Antibody	Jia J, Xu X, Liu F, Guo X, Zhang M, et al. (2013) Identification, Design and Bio-Evaluation of Novel Hsp90 Inhibitors by Ligand-Based Virtual Screening. <i>PLoS ONE</i> 8(4): e59315. doi:10.1371/journal.pone.0059315
11054	Akt(Phospho-Ser473) Antibody	Libing Ma, Jinxiu Li, Guyi Wang, Subo Gong, et al.(2013) Atrial natriuretic peptide suppresses Th17 development through regulation of cGMP-dependent protein kinase and PI3K–Akt signaling pathways. <i>Regulatory Peptides</i> . 181:9–16
11054	Akt(Phospho-Ser473) Antibody	Peter Schubert, Danielle Coupland, Brankica Culibrk, Raymond P. Goodrich, et al. (2013) Riboflavin and ultraviolet light treatment of platelets triggers p38MAPK signaling: inhibition significantly improves in vitro platelet quality after pathogen reduction treatment. <i>TRANSFUSION</i> . Volume **, ** **
11054	Akt(Phospho-Ser473) Antibody	Yunye Ning, Haidong Huang, Yuchao Dong, Qinying Sun, et al. (2013) 5-Aza-20-deoxycytidine inhibited PDGF-induced rat airway smooth muscle cell phenotypic switching. <i>Arch Toxicol</i> 87:871–881
11054	Akt(Phospho-Ser473) Antibody	Shen J, et al., The use of hollow mesoporous silica nanospheres to encapsulate bortezomib and improve efficacy for non-small cell lung cancer therapy, <i>Biomaterials</i> (2013) Volume 35, Issue 1, January 2014, Pages 316–326

## Application References Summary

11055	Akt (Phospho-Thr308) Antibody	Alexandra V. Andreeva, Jingyan Han, Mikhail A. Kutuzov ,et al.(2010) <i>Journal of cellular Physiology</i> , 223(1) 1, 94 - 102 T-cadherin modulates endothelial barrier function.
11055	Akt (Phospho-Thr308) Antibody	Chao Han, Remi Quirion, Wenhua Zheng et al (2011) Glutamate attenuates IGF-1 receptor signaling via NR2B containing NMDA receptors and neuronal nitric oxide synthase. <i>Biochemical and Biophysical Research Communications</i> , In Press
11055	Akt(Phospho-Thr308) Antibody	Yingjia Guo, Tong Yang, Jun Lu, Shengfu Li, et al. (2011) Rb1 postconditioning attenuates liver warm ischemia–reperfusion injury through ROS-NO-HIF pathway. <i>Life Sciences</i> . 88:598–605
11055	Akt(Phospho-Thr308) Antibody	Yunye Ning, Haidong Huang, Yuchao Dong, Qinying Sun,ett al. (2013) 5-Aza-20-deoxycytidine inhibited PDGF-induced rat airway smooth muscle cell phenotypic switching. <i>Arch Toxicol</i> 87:871–881
11055	Akt(Phospho-Thr308) Antibody	Nan Li, Heng Lu, Chunyan Chen, Xiaodong Bu, et al. (2013) Loss of fatty acid synthase inhibits the “HER2-PI3K/Akt axis” activity and malignant phenotype of Caco-2 cells <i>Lipids in Health and Disease</i> . 12:83
11055	Akt(Phospho-Thr308) Antibody	Hongxia Zhanga,1, Junjie Houb,1, Ruina Cuia, Xuejiang Guoc, Zhimin Shia, Fuquan Yangb, Jiayin Daia, Phosphoproteome analysis reveals an important role for glycogen synthase kinase-3 in perfluorododecanoic acid-induced rat liver toxicity, <i>Toxicology Letters</i> 218 (2013) 61– 69
11057	p95/NBS1 (Phospho-Ser343) Antibody	F Carrillo, SA Schneider, AMR Taylor, et al (2009) Prominent Oromandibular Dystonia and Pharyngeal Telangiectasia in Atypical Ataxia Telangiectasia. <i>Cerebellum</i> , 8:22–27
11057	p95/NBS1(Phospho-Ser343) Antibody	Rachid Drissi, Jing Wu, Yafang Hu, Carol Bockhold, and Jeffrey S. Dome(2011) <i>Cancer Prevention Research</i> , 4(12) December 2011
11059	FAK (Phospho-Tyr861) Antibody	Liang Wu , Lei Zhu , Wei-Hao Shi , et al. (2008) Zoledronate inhibits the proliferation,adhesion and migration of vascular smooth muscle cells. <i>European Journal of Pharmacology</i> , 602, 124–131
11059	FAK (Phospho-Tyr861) Antibody	Baiyang Sheng, Bo Song, Zhenhuan Zheng, (2009) Abnormal cleavage of APP impairs its functions in cell adhesion and migration. <i>Neuroscience Letters</i> , 450, 327–33
11059	FAK (Phospho-Tyr861) Antibody	Z Zheng, Y Wei, et al.( 2008) Surface Characterization and Cytocompatibility of Three Chitosan/Polycation Composite Membranes for Guided Bone Regeneration. <i>Journal of Biomaterials Applications</i> ,24:209-229
11059	FAK(Phospho-Tyr861) Antibody	Masahiko Kanehira, Toshiaki Kikuchi, Shinya Ohkouchi, Taizou Shibahara, et al. (2012) Targeting Lysophosphatidic Acid Signaling Retards Culture-Associated Senescence of Human Marrow Stromal Cells. <i>PLoS ONE</i> 7(2): e32185. doi:10.1371/journal.pone.0032185
11062	PTEN(Phospho-Ser370) Antibody	Zhi Li & Gong Xiang Liu & Yu Lan Liu & Xi Chen & Xiao Li Huang & Hua Tian Gan, Effect of adenovirus-mediated PTEN gene on ulcerative colitis-associated colorectal cancer, <i>Int J Colorectal Dis</i> (2013) 28:1107–1115

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11063	Ezrin (Phospho-Tyr353) Antibody	Yazhou Cui, Tianliang Li, Denglu Zhang, et al. (2010) Expression of Ezrin and Phosphorylated Ezrin (pEzrin) in Pancreatic Ductal Adenocarcinoma. <i>Cancer Investigation</i> 28(3) 242-247
11063	Ezrin(Phospho-Tyr353) Antibody	Yasunori Oda MD, Shinichi Aishima PhD, Katsuya Morimatsu PhD, Akifumi Hayashi PhD, et al. (2012) Differential ezrin and phosphorylated ezrin expression profiles between pancreatic intraepithelial neoplasia, intraductal papillary mucinous neoplasm, and invasive ductal carcinoma of the pancreas. <i>Human Pathology</i> 44:1487–1498
11066	p-Bcl-xl (Ser62)	Dan Liu, Yi Huang, Jing Zeng, Bojiang Chen and Na Huang, et al. Down-regulation of JAK1 by RNA interference inhibits growth of the lung cancer cell line A549 and interferes with the PI3K/mTOR pathway. <i>Journal of Cancer Research and Clinical Oncology</i> , 2011, Volume 137, Number 11, Pages 1629-164
11068	BAD (Phospho-Ser136) Antibody	N Matsuda, Y Takano, S Kageyama, et al. (2007) Silencing of caspase-8 and caspase-3 by RNA interference prevents vascular endothelial cell injury in mice with endotoxic shock. <i>Cardiovascular Research</i> , 76:132-140.
11068	BAD (Phospho-Ser136) Antibody	S. Otsuki, K. Sugiyama, O. Amano, T. Yasui, H. Sakagami (2011) Negative regulation of NaF-induced apoptosis by Bad–CAII complex. <i>Toxicology</i> , Volume 287, Issues 1-3, Pages 131-136
11073	Estrogen Receptor- $\alpha$ (Phospho-Ser167) Antibody	Kazuyoshi Motomura, Makoto Ishitobi, Yoshifumi Komoike, et al (2010) Expression of Estrogen Receptor Beta and Phosphorylation of Estrogen Receptor Alpha Serine 167 Correlate with Progression-Free Survival in Patients with Metastatic Breast Cancer Treated with Aromatase Inhibitors. <i>Oncology</i> , 79, 1-2
11075	HER2(Phospho-Tyr877) Antibody	M. Alicia Cortés <sup>1</sup> , Ariel E. Cariaga-Martínez <sup>1</sup> , Mariá V. T. Lobo <sup>2,3</sup> , Rosa M. Martí n Orozco <sup>1</sup> , Omar Motín <sup>1</sup> , F. Javier Rodríguez-Ubreva <sup>1,4</sup> , Javier Angulo <sup>5</sup> , Pilar López-Ruiz <sup>1</sup> and Begonã Cola <sup>1</sup> , EGF promotes neuroendocrine-like differentiation of prostate cancer cells in the presence of LY294002 through increased ErbB2 expression independent of the phosphatidylinositol 3-kinase-AKT pathway, <i>Carcinogenesis</i> vol.33 no.6 pp.1169–1177, 2012
11079	HER2 (Phospho-Tyr1248) Antibody	Yuan Guogang, Lu Qian, Ming Shi (2008) HER2-dependent MMP-7 expression is mediated by activated STAT3. <i>Cellular Signalling</i> , 20:1284–1291
11088	anti-phospho-IGF-1R (1165/1166)	Chao Han, Remi Quirion, Wenhua Zheng et al (2011) Glutamate attenuates IGF-1 receptor signaling via NR2B containing NMDA receptors and neuronal nitric oxide synthase. <i>Biochemical and Biophysical Research Communications</i> , In Press,
11090	Caveolin-1 (Phospho-Tyr14) Antibody	André Bento-Abreu, Ana Velasco, Erica Polo-Hernández, et al (2009) Albumin endocytosis via megalin in astrocytes is caveola- and Dab-1 dependent and is required for the synthesis of the neurotrophic factor oleic acid. <i>Journal of Neurochemistry</i> , 111 (1), Pages 49 - 60



## Application References Summary

11092	p53(Phospho-Ser6) Antibody	Yan-Qing Guan a,1, Zhibin Li a,1, Aini Yang a, Zheng Huang a, Zhe Zheng a, Lin Zhang a, Ling Li a, Jun-Ming Liu, Cell cycle arrest and apoptosis of OVCAR-3 and MCF-7 cells induced by co-immobilized TNF-a plus IFN-g on polystyrene and the role of p53 activation, Contents lists available at SciVerse ScienceDirect
11098	p53(Phospho-Ser37) Antibody	Yan-Qing Guan a,1, Zhibin Li a,1, Aini Yang a, Zheng Huang a, Zhe Zheng a, Lin Zhang a, Ling Li a, Jun-Ming Liu, Cell cycle arrest and apoptosis of OVCAR-3 and MCF-7 cells induced by co-immobilized TNF-a plus IFN-g on polystyrene and the role of p53 activation, Contents lists available at SciVerse ScienceDirect
11100	p53(Phospho-Ser315) Antibody	Yan-Qing Guan a,1, Zhibin Li a,1, Aini Yang a, Zheng Huang a, Zhe Zheng a, Lin Zhang a, Ling Li a, Jun-Ming Liu, Cell cycle arrest and apoptosis of OVCAR-3 and MCF-7 cells induced by co-immobilized TNF-a plus IFN-g on polystyrene and the role of p53 activation, Contents lists available at SciVerse ScienceDirect
11102	Tau(Phospho-Ser396) Antibody	Xu-Ying Sun, Yu-Ping Wei, Yan Xiong, Xiao-Chuan Wang, et al. (2012) Synaptic Released Zinc Promotes Tau Hyperphosphorylation by Inhibition of Protein Phosphatase 2A (PP2A). THE JOURNAL OF BIOLOGICAL CHEMISTRY VOL. 287, NO. 14, pp. 11174–11182
11102	Tau(Phospho-Ser396) Antibody	Li-Ming Chen, Yan-Si Xiong, Fan-Li Kong, Min Qu, et al. (2012) Neurolobin attenuates Alzheimer-like tau hyperphosphorylation by activating Akt signaling. JOURNAL OF NEUROCHEMISTRY. 120:157–164
11102	Tau(Phospho-Ser396) Antibody	Wen-Fei Tan, Xue-Zhao Cao, Jun-KeWang, Huang-Wei Lv, et al. (2010) Protective effects of lithium treatment for spatial memory deficits induced by tau hyperphosphorylation in splenectomized rats. Clinical and Experimental Pharmacology and Physiology. 37:1010–1015
11103	PLCγ1 (Phospho-Tyr783) Antibody	Cheng-Ying Hsieh, Chien-Liang Liu, Ming-Jen Hsu, Thanasekaran Jayakumar, et al. (2010) Inhibition of vascular smooth muscle cell proliferation by the vitamin E derivative pentamethylhydroxychromane in an in vitro and in vivo study: pivotal role of hydroxyl radical-mediated PLCγ1 and JAK2 phosphorylation. Free Radical Biology & Medicine. 49:881–893
11103	PLCγ1(Phospho-Tyr783) Antibody	Yu-fei Pan, Li-wei Dong, Min Wang, Guang-zhen Yang, et al. (2013) Signal regulatory protein α negatively regulates mast-cell activation following FcεRI aggregation. Eur. J. Immunol. 43: 1598–1607
11106	Tau(Phospho-Ser235) Antibody	Johanne Bertrand, Patrick Senechal, Mathieu Zummo-Soucy, Vanessa Plouffe, et al. (2010) The formation of tau pathological phospho-epitopes in the axon is prevented by the dephosphorylation of selective sites in primary hippocampal neurons over-expressing human tau. JOURNAL OF NEUROCHEMISTRY. 114:1353–1367
11107	Tau(Phospho-Thr181) Antibody	Lara Ordóñez-Gutiérrez, Juan María Torres, Rosalina Gavín, Marta Antón, et al. (2013) Cellular prion protein modulates b-amyloid deposition in aged APP/PS1 transgenic mice. Neurobiology of Aging. xxx:1-12

## Application References Summary

11108	Tau(Phospho-Thr205) Antibody	Tan Wenfei, Cao Xuezhao, Wang Junke, et al. (2010) Tau hyperphosphorylation is associated with memory impairment after exposure to 1.5% isoflurane without temperature maintenance in rats. <i>European Journal of Anaesthesiology</i> , doi: 10.1097/EJA.0b013e32833a6561
11108	Tau(Phospho-Thr205) Antibody	Xu-Ying Sun, Yu-Ping Wei, Yan Xiong, Xiao-Chuan Wang, et al. (2012) Synaptic Released Zinc Promotes Tau Hyperphosphorylation by Inhibition of Protein Phosphatase 2A (PP2A). <i>THE JOURNAL OF BIOLOGICAL CHEMISTRY</i> VOL. 287, NO. 14, pp. 11174–11182
11108	Tau(Phospho-Thr205) Antibody	Li-Ming Chen, Yan-Si Xiong, Fan-Li Kong, Min Qu, et al. (2012) Neurolobin attenuates Alzheimer-like tau hyperphosphorylation by activating Akt signaling. <i>JOURNAL OF NEUROCHEMISTRY</i> . 120:157–164
11108	Tau(Phospho-Thr205) Antibody	Wen-Fei Tan, Xue-Zhao Cao, Jun-Ke Wang, Huang-Wei Lv, et al. (2010) Protective effects of lithium treatment for spatial memory deficits induced by tau hyperphosphorylation in splenectomized rats. <i>Clinical and Experimental Pharmacology and Physiology</i> . 37:1010–1015
11110	Tau(Phospho-Thr231) Antibody	Xu-Ying Sun, Yu-Ping Wei, Yan Xiong, Xiao-Chuan Wang, et al. (2012) Synaptic Released Zinc Promotes Tau Hyperphosphorylation by Inhibition of Protein Phosphatase 2A (PP2A). <i>THE JOURNAL OF BIOLOGICAL CHEMISTRY</i> VOL. 287, NO. 14, pp. 11174–11182
11110	Tau(Phospho-Thr231) Antibody	Li-Ming Chen, Yan-Si Xiong, Fan-Li Kong, Min Qu, et al. (2012) Neurolobin attenuates Alzheimer-like tau hyperphosphorylation by activating Akt signaling. <i>JOURNAL OF NEUROCHEMISTRY</i> . 120:157–164
11111	Tau(Phospho-Ser262) Antibody	J. Bertrand, V. Plouffe, P. Sénéchal, N. Leclerc, et al. (2010) The pattern of human tau phosphorylation is the result of priming and feedback events in primary hippocampal neurons. <i>Neuroscience</i> , Volume 168, Issue 2, Pages 323-334
11111	Tau(Phospho-Ser262) Antibody	Vanessa Plouffe. (2011) The secretion of the Tau protein: a new mechanism propagation of the pathology of Tau in the disease Alzheimer. University of Montreal Faculty of Graduate and Postdoctoral Studies.
11112	Tau(Phospho-Ser404) Antibody	Xu-Ying Sun, Yu-Ping Wei, Yan Xiong, Xiao-Chuan Wang, et al. (2012) Synaptic Released Zinc Promotes Tau Hyperphosphorylation by Inhibition of Protein Phosphatase 2A (PP2A). <i>THE JOURNAL OF BIOLOGICAL CHEMISTRY</i> VOL. 287, NO. 14, pp. 11174–11182
11112	Tau(Phospho-Ser404) Antibody	Li-Ming Chen, Yan-Si Xiong, Fan-Li Kong, Min Qu, et al. (2012) Neurolobin attenuates Alzheimer-like tau hyperphosphorylation by activating Akt signaling. <i>JOURNAL OF NEUROCHEMISTRY</i> . 120:157–164
11115	FKHR (Phospho-Ser256) Antibody	Zhan Lixuan, Tao Wang, Wen Li, et al. (2010) <i>Journal of Neurochemistry</i> doi: 10.1111/j.1471-4159.2010.06816.x Activation of AKT/FoxO signaling pathway contributes to induction of neuroprotection against transient global cerebral ischemia by hypoxic pre-conditioning in adult rats.

## Application References Summary

11115	FKHR(Phospho-Ser256) Antibody	Libing Ma, Jinxiu Li, Guyi Wang, Subo Gong, et al.(2013) Atrial natriuretic peptide suppresses Th17 development through regulation of cGMP-dependent protein kinase and PI3K–Akt signaling pathways. <i>Regulatory Peptides</i> . 181:9–16
11122	ATM (Phospho-Ser1981) Antibody	Bin Kang ,Ruifang Guo,Xiao-hui Tian , et al.(2008) Expression status of ataxia telangiectasia mutated gene coorelated with Prognosis in advanced gastric cancer. <i>Mutation Research</i> , 638: 17-25
11122	ATM (Phospho-Ser1981) Antibody	J Leemput, C Masson, K Bigot . ATM localization and gene expression in the adult mouse eye. <i>Molecular Vision</i> 15: 393–416
11122	ATM(Phospho-Ser1981) Antibody	Dashayini Mahalingam, Ling L. Tay, Wei H. Tan, Juin H. Chai, et al. (2011) Mutant telomerase RNAs induce DNA damage and apoptosis via the TRF2-ATM pathway in telomerase-overexpressing primary fibroblasts. <i>FEBS Journal</i> 278:3724–3738
11122	ATM(Phospho-Ser1981) Antibody	Hiroaki Inaba, Masae Kuboniwa, Hideyuki Sugita, Richard J. Lamont and Atsuo Amano, Identification of Signaling Pathways Mediating Cell Cycle Arrest and Apoptosis Induced by <i>Porphyromonas gingivalis</i> in Human Trophoblasts, <i>Infect. Immun.</i> 2012, 80(8):2847. DOI: 10.1128/IAI.00258-12.
11123	FAK (Phospho-Tyr925) Antibody	Z Zheng, Y Wei, et al.( 2008)Surface Characterization and Cytocompatibility of Three Chitosan/Polycation Composite Membranes for Guided Bone Regeneration. <i>Journal of Biomaterials Applications</i> ,24:209-229
11126	LIMK1 (Phospho-Thr508) Antibody	Li, X., Ke, Q., Li, Y., Liu, F., Zhu, G., & Li, F., et al. (2008) DGCR6L, A Novel PAK4 Interaction Protein, Regulates PAK4-mediated migration of Human Gastric Cancer Cell via LIMK1. <i>International Journal of Biochemistry and Cell Biology</i> , 42: 70–79
11130	Rb (Phospho-Ser795) Antibody	Fang Sun , Hanjiang Fu , Qin Liu, et al. (2008)Downregulation of CCND1 and CDK6 by miR-34a induces cell cyclearrest. <i>FEBS Letters</i> , 582:1564–1568.
11130	Rb(Phospho-Ser795) Antibody	Heidi Braumuller, ThomasWieder, Ellen Brenner, Sonja Aßmann, et al. (2013) T-helper-1-cell cytokines drive cancer into senescence. <i>NATURE</i> .494:361-366
11131	Rb (Phospho-Ser807) Antibody	Qin Liu, Hanjiang Fu, Fang Sun, et al. (2008) miR-16 family induces cell cycle arrest by regulating multiple cell cycle genes. <i>Nucleic Acids Res.</i> , 36: 5391-5404.
11132	Rb(Phospho-Ser780)Anti body	Xueting Cai, Tingmei Ye, Chao Liu, et al (2011) Luteolin induced G2 phase cell cycle arrest and apoptosis on non-small cell lung cancer cells. <i>Toxicology in Vitro</i> , Volume 25, Issue 7, Pages 1385-1391
11137	AFX (Phospho-Ser197) Antibody	Zhan Lixuan ,Tao Wang,Wen Li ,et al.(2010) <i>Journal of Neurochemistry</i> doi: 10.1111/j.1471-4159.2010.06816.xActivation of AKT/FoxO signaling pathway contributes to induction of neuroprotection against transient global cerebral ischemia by hipoxic pre-conditioning in adult rats.

## Application References Summary

11138	cdc25A(Phospho-Ser76) Antibody	Shunfu Piao, <sup>1</sup> Su-Jin Lee, <sup>2</sup> Yongbin Xu, <sup>1</sup> Jungsug Gwak, <sup>3</sup> Sangtaek Oh, <sup>3</sup> Bum-Joon Park <sup>2,*</sup> and Nam-Chul Ha, CK1ε targets Cdc25A for ubiquitin-mediated proteolysis under normal conditions and in response to checkpoint activation, <i>Cell Cycle</i> 10:3, 531-537; February 1, 2011
11139	cofilin(Phospho-Ser3) Antibody	Lijun Zhang, Jun Luo, Ping Wan, Jing Wu, et al. (2011) Regulation of cofilin phosphorylation and asymmetry in collective cell migration during morphogenesis. <i>Development</i> . 138:455-464
11139	cofilin(Phospho-Ser3) Antibody	Guillaume Huet <sup>1</sup> , Eeva Kaisa Rajakyla, Tiina Viita <sup>1</sup> , Kari-Pekka Skarp, et al. (2012) Actin-regulated feedback loop based on Phactr4, PP1 and cofilin maintains the actin monomer pool. <i>Journal of Cell Science</i> . 126:497–507
11139	cofilin(Phospho-Ser3) Antibody	Hui Guo, Yi Lv, Tao Tian, Ting Hua Hu, et al. (2011) Downregulation of p57 accelerates the growth and invasion of hepatocellular carcinoma. <i>Carcinogenesis</i> vol.32 no.12 pp.1897–1904
11142	Vav (Phospho-Tyr174) Antibody	Yuichi Sekine, Osamu Ikeda, Satoshi Tsuji, et al (2009) Signal-Transducing Adaptor Protein-2 Regulates Stromal Cell-Derived Factor-1 -Induced Chemotaxis in T Cells. <i>The Journal of Immunology</i> , 183:7966 -7974
11144	Lck(Phospho-Tyr394) Antibody	C. Annette Hollmann, Alexandar Tzankov, Verónica L. Martínez-Marignaca, Kristi Bakerc, Czesława Grygorczyk, Ryszard Grygorczyk, William Foulkes, Jay Nadeau, Stephan Dirnhofer, Raquel Aloyza, Therapeutic implications of Src independent calcium mobilization in diffuse large B-cell lymphoma, <i>Leukemia Research</i> 34 (2010) 585–593
11149	phosphorylated (p-)JAK1 (Tyr1022)	Dan Liu, Yi Huang, Jing Zeng, Bojiang Chen and Na Huang, et al. Down-regulation of JAK1 by RNA interference inhibits growth of the lung cancer cell line A549 and interferes with the PI3K/mTOR pathway. <i>Journal of Cancer Research and Clinical Oncology</i> , 2011, Volume 137, Number 11, Pages 1629-164
11149	JAK1(Phospho-Tyr1022) Antibody	YOUNG CHA, BO-HYUN MOON, MI-OK LEE, HEE-JIN AHN, et al. (2010) Zap70 Functions to Maintain Stemness of Mouse Embryonic Stem Cells by Negatively Regulating Jak1/Stat3/c-Myc Signaling. <i>STEM CELLS</i> . 28:1476–1486
11152	IκBα (phospho-Ser32/Ser36)	Zhenghua Ren, Jianhua Cui, Zeren Huo, Jinru Xue, et al. (2012) Cordycepin suppresses TNF-α-induced NF-κB activation by reducing p65 transcriptional activity, inhibiting IκBα phosphorylation, and blocking IKKγ ubiquitination. <i>International Immunopharmacology</i> . 14:698-703
11153	Src (Phospho-Tyr529) Antibody	Yanhua Zheng, Yan Xia, Xiang Gao, Zhimin Lu, et al. (2009) FAK Phosphorylation by ERK Primes Ras-Induced Tyrosine Dephosphorylation of FAK Mediated by PIN1 and PTP-PEST. <i>Molecular Cell</i> , 35:11–25
11153	Src(Phospho-Tyr529) Antibody	Dr. Marcia Liz. (2010-2011) Glycogen Synthase Kinase 3β modulation in axonal regeneration. <i>Autonomous Section of Health Sciences</i> .
11157	FKHRL1(Phospho-Ser253) Antibody	Zhan Lixuan, Tao Wang, Wen Li, et al. (2010) <i>Journal of Neurochemistry</i> doi: 10.1111/j.1471-4159.2010.06816.x Activation of AKT/FoxO signaling pathway

## Application References Summary

		contributes to induction of neuroprotection against transient global cerebral ischemia by hypoxic pre-conditioning in adult rats.
11161	MEK1 (Phospho-Ser221) Antibody	Akira Ikari , Kosuke Atomi , Keishi Kinjo ,et al.(2010)Magnesium deprivation inhibits a MEK–ERK cascade and cell proliferation in renal epithelial Madin-Darby canine kidney cells. <i>Life Sciences</i> 86: 766–773
11163	STAT1(Phospho-Ser727) Antibody	C.-C.E. Lan, C.-S. Wu, S.-M. Huang, H.-Y. Kuo, et al.(2012) High-glucose environment reduces human b-defensin-2 expression in human keratinocytes: implications for poor diabetic wound healing. <i>British Association of Dermatologists</i> . 166, pp1221–1229
11164	HSP27(Phospho-Ser15) Antibody	Ah-Mee Park a, MasatoshiKudo b, SatoruHagiwara b, MasakiTabuchi c, TomohiroWatanabe d,Hiroshi Munakata a, ToshiharuSakurai b,n, p38MAPK suppresses chronic pancreatitis by regulating HSP27 and BAD expression, <i>Free RadicalBiologyandMedicine</i> 52(2012)2284–2291
11172	PKCβ(Phospho-Thr641) Antibody	Jack N. Losso, Robert E. Truax,,Gerald Richard, et al (2010) trans-Resveratrol Inhibits Hyperglycemia-Induced Inflammation and Connexin Downregulation in Retinal Pigment Epithelial Cells. <i>Journal of Agricultural and Food Chemistry</i> , 58 (14), 8246–8252
11177	SEK1/MKK4(Phospho-Ser80) Antibody	Manujendra N. Saha <sup>1,2</sup> , Hua Jiang <sup>3</sup> , Yijun Yang <sup>1,2</sup> , Xiaoyun Zhu <sup>1,2</sup> , Xiaoming Wang <sup>4</sup> , Aaron D.Schimmer <sup>4</sup> , Lugui Qiu <sup>5</sup> , Hong Chang,Targeting p53 via JNK Pathway: A Novel Role of RITA for Apoptotic Signaling in Multiple Myeloma, January 2012   Volume 7   Issue 1   e30215
11178	ASK1 (Phospho-Ser83) Antibody	Min Yang, Mingcan Yu, Dongyin Guan,et al(2010) ASK1-JNK signaling cascade mediates Ad-ST13-induced apoptosis in colorectal HCT116 cells. <i>Journal of Cellular Biochemistry</i> ,110(3), 581 - 588
11178	ASK1(Phospho-Ser83) Antibody	Manujendra N. Saha <sup>1,2</sup> , Hua Jiang <sup>3</sup> , Yijun Yang <sup>1,2</sup> , Xiaoyun Zhu <sup>1,2</sup> , Xiaoming Wang <sup>4</sup> , Aaron D. Schimmer <sup>4</sup> , Lugui Qiu <sup>5</sup> , Hong Chang,Targeting p53 via JNK Pathway: A Novel Role of RITA for Apoptotic Signaling in Multiple Myeloma, January 2012   Volume 7   Issue 1   e30215
11179	ASK1 (Phospho-Ser966) Antibody	Min Yang, Mingcan Yu, Dongyin Guan,et al(2010) ASK1-JNK signaling cascade mediates Ad-ST13-induced apoptosis in colorectal HCT116 cells. <i>Journal of Cellular Biochemistry</i> ,110(3), 581 - 588
11184	Histone H3.1(Phospho-Ser10) Antibody	Zenglin Liao†, Jiajia Dong†, Wei Wu, Ting Yang, Tao Wang, Lingli Guo, Lei Chen, Dan Xu and Fuqiang Wen, Resolvin D1 attenuates inflammation in lipopolysaccharide-induced acute lung injury through a process involving the PPARγ/NF-κB pathway, Liao et al. <i>Respiratory Research</i> 2012, 13:110
11184	Histone H3.1(Phospho-Ser10) Antibody	Lian-Qing Sun 1, Ying-Ying Chen 1, Xuan Wang, Xiao-Jin Li, Bing Xue, Ling Qu, Ting-Ting Zhang,Yi-Ming Mu, Ju-Ming Lu,The protective effect of Alpha lipoic acid on Schwann cells exposed to constant or intermittent high glucose, <i>Biochemical Pharmacology</i> 84 (2012) 961–973
11184	Histone H3.1(Phospho-Ser10) Antibody	Jiang et al., PKM2 Regulates Chromosome Segregation and Mitosis Progression of Tumor Cells, <i>Molecular Cell</i> (2014), <a href="http://dx.doi.org/10.1016/j.molcel.2013.11.001">http://dx.doi.org/10.1016/j.molcel.2013.11.001</a>

## Application References Summary

11184	Histone H3.1(Phospho-Ser10) Antibody	Yang W, Xia Y, Hawke D, Li X, Liang J, Aldape K, Hunter T, Yung WK, and Lu Z. PKM2 phosphorylates histone H3 and promotes gene transcription and tumorigenesis. <i>Cell</i> 150(4):685-696, 8/2012.
11192	HDAC4 (Phospho-Ser632) Antibody	S Lim, M Luo, M Koh, et al. (2007) Distinct Mechanisms Involving Diverse Histone Deacetylases Repress Expression of the Two Gonadotropin $\beta$ -Subunit Genes in Immature Gonadotropes, and Their Actions Are Overcome by Gonadotropin-Releasing Hormone. <i>Molecular and Cellular Biology</i> , 27(11):4105-4120.
11193	HDAC5 (Phospho-Ser498) Antibody	J Bossuyt, K Helmstadter, X Wu, et al. (2008) Ca <sup>2+</sup> /Calmodulin-Dependent Protein Kinase II $\{\delta\}$ and Protein Kinase D Overexpression Reinforce. <i>Circulation Research</i> , 102(6):695-702.
11193	HDAC5 (Phospho-Ser498) Antibody	Pang J, Yan C, Natarajan K, et al. (2008) GIT1 mediates HDAC5 activation by angiotensin II in vascular smooth muscle cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 28(5):892-8.
11193	HDAC5 (Phospho-Ser498) Antibody	S Lim, M Luo, M Koh, et al. (2007) Distinct Mechanisms Involving Diverse Histone Deacetylases Repress Expression of the Two Gonadotropin $\beta$ -Subunit Genes in Immature Gonadotropes, and Their Actions Are Overcome by Gonadotropin-Releasing Hormone. <i>Molecular and Cellular Biology</i> , 27(11):4105-4120.
11193	HDAC5 (Phospho-Ser498) Antibody	Weiyue Wang, Chang Hoon Ha, Bong Sook Jhun, et al.(2010) Fluid shear stress stimulates phosphorylation-dependent nuclear export of HDAC5 and mediates expression of KLF2 and eNOS. <i>Blood</i> , 115( 14), 2971-2979.
11193	HDAC5 (Phospho-Ser498) Antibody	Sheng Xia, Xiaogang Li, Teri Johnson, et al (2010) Polycystin-dependent fluid flow sensing targets histone deacetylase 5 to prevent the development of renal cysts. <i>Development</i> , 137, 1075-1084.
11201	Paxillin (Phospho-Tyr31) Antibody	Zhi Huang, Da-Peng Yan, Bao-Xue Ge, et al. (2008) JNK regulates cell migration through promotion of tyrosine phosphorylation of paxillin. <i>Cellular Signalling</i> , 20: 2002-2012
11202	Ezrin (Phospho-Thr567) Antibody	Yazhou Cui, Tianliang Li, Denglu Zhang, et al.(2010) Expression of Ezrin and Phosphorylated Ezrin (pEzrin) in Pancreatic Ductal Adenocarcinoma. <i>Cancer Investigation</i> 28(3) 242-247
11215	FAK (Phospho-Tyr397) Antibody	Z Zheng, Y Wei, et al.( 2008) Surface Characterization and Cytocompatibility of Three Chitosan/Polycation Composite Membranes for Guided Bone Regeneration. <i>Journal of Biomaterials Applications</i> , 24:209-229
11215	FAK(Phospho-Tyr397) Antibody	JUNSHAN RUAN <sup>1,3*</sup> , LEI ZHANG <sup>1*</sup> , LINGGENG YAN <sup>1</sup> , YUPING LIU <sup>1</sup> , ZHIQIANG YUE <sup>1</sup> , LI CHEN <sup>1</sup> , AI-YUN WANG <sup>1</sup> , WENXING CHEN <sup>1</sup> , SHIZHONG ZHENG <sup>1</sup> , SHAOMING WANG <sup>3</sup> and YIN LU, Inhibition of hypoxia-induced epithelial mesenchymal transition by luteolin in non-small cell lung cancer cells, <i>MOLECULAR MEDICINE REPORTS</i> 6: 232-238, 2012

## Application References Summary

11216	Pyk2(Phospho-Tyr402) Antibody	Mineko Tomomura, Hiroya Hasegawa, Naoto Suda, Hiroshi Sakagami, et al. (2012) Serum Calcium-decreasing Factor, Caldecrin, Inhibits Receptor Activator of NF- B Ligand (RANKL)-mediated Ca <sup>2+</sup> Signaling and Actin Ring Formation in Mature Osteoclasts via Suppression of Src Signaling Pathway. THE JOURNAL OF BIOLOGICAL CHEMISTRY VOL. 287, NO. 22, pp. 17963–17974
11219	β-Catenin (Phospho-Ser37) Antibody	Yuhua Li , Yinbo Niu , Huanjie Wu, et al.(2010) PC-407, a celecoxib derivative, inhibited the growth of colorectal tumor in vitro and in vivo. <i>Cancer Science</i> ,100(12) 2451 - 2458
11220	EGFR(Phospho-Tyr1172) Antibody	Yang W, Xia Y, Hawke D, Li X, Liang J, Aldape K, Hunter T, Yung WK, and Lu Z. PKM2 phosphorylates histone H3 and promotes gene transcription and tumorigenesis. <i>Cell</i> 150(4):685-696, 8/2012.
11220	EGFR(Phospho-Tyr1172) Antibody	Yang W, Zheng Y, Xia Y, Ji H, Chen X, Fang G, Lyssiotis C, Aldape K, Cantley L, and Lu Z. ERK1/2-dependent phosphorylation and nuclear translocation of PKM2 promotes the Warburg effect. <i>Nature Cell Biology</i> 14(12):1295-304, 2012. PMID: 23178880.
11221	mTOR(Phospho-Ser2448) Antibody	Macias M, Blazejczyk M, Kazmierska P, Caban B, Skalecka A, et al. (2013) Spatiotemporal Characterization of mTOR Kinase Activity Following Kainic Acid Induced Status Epilepticus and Analysis of Rat Brain Response to Chronic Rapamycin Treatment. <i>PLoS ONE</i> 8(5): e64455. doi:10.1371/journal.pone.0064455
11221	mTOR(Phospho-Ser2448) Antibody	Yunye Ning, Haidong Huang, Yuchao Dong, Qinying Sun, et al. (2013) 5-Aza-20-deoxycytidine inhibited PDGF-induced rat airway smooth muscle cell phenotypic switching. <i>Arch Toxicol</i> 87:871–881
11223	4E-BP1 (Phospho-Thr45) Antibody	Jiumei Cao, Limin Gong, Dong-chuan Guo, et al.(2010)Thoracic aortic disease in tuberous sclerosis complex: molecular pathogenesis and potential therapies in Tsc2+/- mice. <i>Human Molecular Genetics</i> , doi:10.1093/hmg/ddq066
11232	S6 Ribosomal Protein(Phospho-Ser235) Antibody	Zeynep Nesli ERDEM.(2011) FGFR4 mediated Growth and Survival signals in Colon Carcinoma cells.
11240	Phospho-c-Kit (Tyr721) antibody	Xiao-ning Gao, Ji Lin, Li Gao, et al (2011)MicroRNA-193b regulates c-Kit proto-oncogene and represses cell proliferation in acute myeloid leukemia. <i>Leukemia Research</i> , Volume 35, Issue 9, September 2011, Pages 1226-1232
11244	CDC2(Phospho-Tyr15) Antibody	Qi Yao, Hui Li, Bing-Qian Liu, Xin-Yun Huang, et al. (2013) SUMOylation-regulated Protein Phosphorylation, Evidence from Quantitative Phosphoproteomics Analyses. THE JOURNAL OF BIOLOGICAL CHEMISTRY VOL. 286, NO. 31, pp. 27342–27349

## Application References Summary

11244	CDC2(Phospho-Tyr15) Antibody	Philip M. KUBARA, Sophie KERN'EIS-GOLSTEYN, Aur'elie STUD'ENY, Brittany B. LANSER, et al. (2012) Human cells enter mitosis with damaged DNA after treatment with pharmacological concentrations of genotoxic agents. <i>Biochem. J.</i> 446:373–381
11245	p44/42 MAP Kinase (Phospho-Thr202) Antibody	Chao Han, Remi Quirion, Wenhua Zheng et al (2011) Glutamate attenuates IGF-1 receptor signaling via NR2B containing NMDA receptors and neuronal nitric oxide synthase. <i>Biochemical and Biophysical Research Communications</i> , In Press,
11246	P-ERK	Jin-Hang Gao, Shi-Lei Wen, Wen-Juan Yang, Yao-Yao Lu, et al. (2013) Celecoxib Ameliorates Portal Hypertension of the Cirrhotic Rats through the Dual Inhibitory Effects on the Intrahepatic Fibrosis and Angiogenesis. <i>PLoS ONE</i> 8(7): e69309. doi:10.1371/journal.pone.0069309
11249	SAPK/JNK (Phospho-Thr183) Antibody	Anastasia F. Thévenina, Chati L. Zonya, Brian J. Bahnsone , et al (2010)Activation by phosphorylation and purification of human c-Jun N-terminal Kinase (JNK) isoforms in milligram amounts. <i>Protein Expression and Purification</i> , 75( 2) ,138-146
11249	SAPK/JNK(Phospho-Thr183) Antibody	Peng Jiao • Yun-Sheng Zhou • Juan-Xia Yang • Ya-Li Zhao • Qiang-Qiang Liu • Chuang Yuan • Feng-Ze Wang, MK-2206 induces cell cycle arrest and apoptosis in HepG2 cells and sensitizes TRAIL-mediated cell death, <i>Mol Cell Biochem</i> DOI 10.1007/s11010-013-1737-0
11252	P38 MAPK(Phospho-Thr180) Antibody	Diansan Su, Yang Gu, Zhenhong Wang, Xiangrui Wang (2010) Lidocaine Attenuates Proinflammatory Cytokine Production Induced by Extracellular Adenosine Triphosphate in Cultured Rat Microglia. <i>Anesthesia &amp; Analgesia</i> , 111 (3) 768-774
11253	P38 MAPK(Phospho-Tyr182) Antibody	RS Chen, YM Song, et al.(2008) Disruption of xCT inhibits cancer cell metastasis via the caveolin-1/β-catenin pathway . <i>Oncogene</i> , 28, 599–609
11253	P38 MAPK(Phospho-Tyr182) Antibody	Diansan Su, Yang Gu, Zhenhong Wang, Xiangrui Wang (2010) Lidocaine Attenuates Proinflammatory Cytokine Production Induced by Extracellular Adenosine Triphosphate in Cultured Rat Microglia. <i>Anesthesia &amp; Analgesia</i> , 111 (3) 768-774
11254	p70 S6 Kinase (Phospho-Thr421) Antibody	X Tang, X Zhou, K Zhou,et al.( 2009) Dauricine inhibits insulin-like growth factor-I-induced hypoxia inducible factor 1α protein. <i>Acta Pharmacologica Sinica</i> . 30 (5): 605–616
11260	NFκB-p65((phospho-Ser311) Antibody	Dan-Dan Shi†, Hu Shi†, Dan Lu, Rui Li, Yu Zhang and Jun Zhang, NDR1/STK38 potentiates NF-κB activation by its kinase activity, <i>Cell Biochem Funct</i> 2012; 30: 664–670
11268	Histone H2A.X(Phospho-Ser139) Antibody	Xiukun Cui a,1, Jing Zhang a,b,1, Rong Du c,1, Lei Wang a, Stephen Archacki d, Yuexuan Zhang a, Mingxiong Yuan a, Tie Ke a, Hui Li a, Duanzhuo Li a, Chang Li a, David Wan-Cheng Li e, Zhaohui Tang a,Zhan Yin, Mugen Liu, HSF4 is involved in DNA damage repair through regulation of



## Application References Summary

		Rad51, <i>Biochimica et Biophysica Acta</i> 1822 (2012) 1308–1315
11280	PKR(Phospho-Thr446) Antibody	Suzette Laing , Guohui Wang , Tamara Briazova ,et al (2010) Airborne Particulate Matter Selectively Activates Endoplasmic Reticulum Stress Response in the Lung and Liver Tissues. <i>American Journal of Physiol Cell Physiol</i> (June 16, 2010). doi:10.1152/ajpcell.00529.2009
11284	p70 S6 Kinase (Phospho-Ser424) Antibody	Dan Liu, Yi Huang, Bojiang Chen, Jing Zeng, et al. (2011) Activation of Mammalian Target of Rapamycin Pathway Confers Adverse Outcome in Nonsmall Cell Lung Carcinoma. DOI: 10.1002/cncr.25959
11290	PKR(Phospho-Thr451) Antibody	Suzette Laing , Guohui Wang , Tamara Briazova ,et al (2010) Airborne Particulate Matter Selectively Activates Endoplasmic Reticulum Stress Response in the Lung and Liver Tissues. <i>American Journal of Physiol Cell Physiol</i> (June 16, 2010). doi:10.1152/ajpcell.00529.2009
11294	MEK1(Phospho-Thr291) Antibody	Hanqian Xu, Gan Zhao, Xiaoxi Huang, et al (2010) CD40-expressing plasmid induces anti-CD40 antibody and enhances immune responses to DNA vaccination. <i>The Journal of Gene Medicine</i> . 12(1).97-106
11294	MEK1(Phospho-Thr291) Antibody	Akira Ikari, Kosuke Atomi, Keishi Kinjo, Yohei Sasaki, Junko Sugatani (2010) Magnesium deprivation inhibits a MEK–ERK cascade and cell proliferation in renal epithelial Madin-Darby canine kidney cells. <i>Life Sciences</i> . 86:766–773
11296	PKCδ(Phospho-Ser645) Antibody	M. Uenoyama, S. Ogata, K. Nakanishi, F. Kanazawa, et al. (2010) Protein kinase C mRNA and protein expressions in hypobaric hypoxia-induced cardiac hypertrophy in rats. <i>Acta Physiol</i> . 198:431–440
11300	CREB(Phospho-Ser142) Antibody	Tomasz Boczek • Anna Kozaczuk • Bozena Ferenc • Michalina Kosiorek • Sławomir Pikula • Ludmila Zylinska, Gene expression pattern in PC12 cells with reduced PMCA2 or PMCA3 isoform: selective up-regulation of calmodulin and neuromodulin, <i>Mol Cell Biochem</i> (2012) 360:89–102
11301	GSK3β(Phospho-Tyr216) Antibody	Hirakawa Hiroshi, Nakayama Toshiyuki, Shibata Kenichiro et al (2009) Association of cellular localization of glycogen synthase kinase 3β in the digestive tract with cancer development. <i>Oncology Reports</i> , 22(3), 481-485
11301	GSK3β(Phospho-Tyr216) Antibody	Song Chen & Ai-ran Liu & Feng-mao An & Wen-bing Yao & Xiang-dong Gao, Amelioration of neurodegenerative changes in cellular and rat models of diabetes-related Alzheimer's disease by exendin-4, <i>AGE</i> (2012) 34:1211–1224
11321	Smad1(Phospho-Ser465) Antibody	Yamaguchi, J Zhu, T Yu, et al. (2007) Serum-free mouse embryo cells generate a self-sustaining feedback loop for an astrocyte marker protein and respond to cytokines and bisphenol A in accordance with the subtle difference in their differentiation state. <i>Cell Biology International</i> , 31(6):638-644.

## Application References Summary

11322	Smad2(Phospho-Ser467) Antibody	Xing-Yi Zhang, Bao-Rong Shen, Yu-Cheng Zhang, Xue-Jiao Wan, Qing-Ping Yao, et al (2013) Induction of Thoracic Aortic Remodeling by Endothelial-Specific Deletion of MicroRNA-21 in Mice. PLoS ONE. 8(3): e59002. doi:10.1371/journal.pone.0059002
11323	Smad2(Phospho-Thr220) Antibody	Xing-Yi Zhang, Bao-Rong Shen, Yu-Cheng Zhang, Xue-Jiao Wan, Qing-Ping Yao, et al (2013) Induction of Thoracic Aortic Remodeling by Endothelial-Specific Deletion of MicroRNA-21 in Mice. PLoS ONE. 8(3): e59002. doi:10.1371/journal.pone.0059002
11325	Smad3(Phospho-Ser425) Antibody	Mitsuko Moriguchi, Marie Yamada, Yasuo Miake and Mayu Koshika. (2012) Immunolocalization of Axin2 and p-Smad3 in Developing Rat Molar Germ. Journal of Hard Tissue Biology. 21[2] p.113 - 120
11327	TrkB(Phospho-Tyr515) Antibody	YeeWen Candace Wu, Rachel A. Hill, Maren Klug, Maarten van den Buuse (2012) Sex-specific and region-specific changes in BDNF-TrkB signalling in the hippocampus of 5-HT1A receptor and BDNF single and double mutant mice. Brain Research. Volume 1452, Pages 10–17
11327	TrkB(Phospho-Tyr515) Antibody	Ning LI, Geng-tao LIU. (2010) The novel squamosamide derivative FLZ enhances BDNF/TrkB/CREB signaling and inhibits neuronal apoptosis in APP/PS1 mice. Acta Pharmacologica Sinica. 31: 265–272
11328	TrkB(Phospho-Tyr705) Antibody	Rachel A. Hill, Maarten van den Buuse (2011) Sex-dependent and region-specific changes in TrkB signaling in BDNF heterozygous mice. Brain Research, Volume 1384, Pages 51-60
11328	TrkB(Phospho-Tyr705) Antibody	Rachel A. Hill, Yee-Wen Candace Wu, Andrea Gogos, Maarten van den Buuse. (2013) Sex-dependent alterations in BDNF-TrkB signaling in the hippocampus of reelin heterozygous mice: a role for sex steroid hormones. Neurochem. 126: 389--399
11328	TrkB(Phospho-Tyr705) Antibody	R. A. Hill, Y. W. C. Wu, P. Kwek and M. van den Buuse. Modulatory Effects of Sex Steroid Hormones on Brain-Derived Neurotrophic Factor-Tyrosine Kinase B Expression during Adolescent Development in C57Bl/6 Mice. Journal of Neuroendocrinology, 2012, 24, 774–788
11330	a-catenin(Phospho-Ser641) Antibody	Ji H, Wang J, Nika H, Hawke D, Keezer S, Ge Q, Fang B, Fang X, Fang D, Litchfield DW, Aldape K, Lu Z. EGF-induced ERK activation promotes CK2-mediated disassociation of alpha-Catenin from beta-Catenin and transactivation of beta-Catenin. Mol Cell 36(4):547-59 (Selected as the feature article by Mol Cell and highlighted in Cell and M.D. Anderson News Release), 11/2009. PMID: PMC2784926.
11456	PKM2(phospho-Ser37) Antibody	Yang W, Zheng Y, Xia Y, Ji H, Chen X, Fang G, Lyssiotis C, Aldape K, Cantley L, and Lu Z. ERK1/2-dependent phosphorylation and nuclear translocation of PKM2 promotes the Warburg effect. Nature Cell Biology 14(12):1295-304, 2012. PMID: 23178880.

## Application References Summary

11507	cofilin1/cofilin2(phospho-Tyr88) Antibody	Xiaodong Li, Qiang Ke, Yanshu Li, Funan Liu, Ge Zhu, Feng Li ,DGCR6L, a novel PAK4 interaction protein, regulates PAK4-mediated migration of human gastric cancer cell via LIMK1 ,The International Journal of Biochemistry& Cell Biology 42 (2010) 70–79 Contents lists
11517	HDAC4/HDAC5/HDAC9(phospho-Ser246/259/220) Antibody	Weiyue Wang.(2010) A Novel Role of HDAC5 in Flow-Induced Gene Expression. Department of Pharmacology and Physiology School of Medicine and Dentistry University of Rochester Rochester
11545	FAK (phospho-Tyr576/Tyr577) Antibody	Z Zheng, Y Wei, et al.( 2008) Surface Characterization and Cytocompatibility of Three Chitosan/Polycation Composite Membranes for Guided Bone Regeneration. <i>Journal of Biomaterials Applications</i> ,24:209-229
11545	FAK(phospho-Tyr576/Tyr577) Antibody	Jun-shan RUAN, Yu-ping LIU1, Lei ZHANG1, Ling-geng YAN, et al. (2012) Luteolin reduces the invasive potential of malignant melanoma cells by targeting $\beta 3$ integrin and the epithelial-mesenchymal transition. <i>Acta Pharmacologica Sinica</i> . 33: 1325–1331
11550	MDM2(phospho-Ser166) Antibody	Hetian Lei, Gisela Velez, and Andrius Kazlauskas. (2010) Pathological Signaling via Platelet-Derived Growth Factor Receptor Involves Chronic Activation of Akt and Suppression of p53. <i>MOLECULAR AND CELLULAR BIOLOGY</i> , May 2011, p. 1788–1799
11552	Sufu(Phospho-Ser342) Antibody	Yan Chen, Shen Yue, Lu Xie, Xiao-hong Pu,Tian Jin and Steven Y. Cheng, Dual Phosphorylation of Suppressor of Fused (Sufu) by PKA and GSK3 b Regulates Its Stability and Localization in the Primary Cilium, <i>THE JOURNAL OF BIOLOGICAL CHEMISTRY VOL. 286, NO. 15, pp. 13502–13511, April 15, 2011</i>
11553	Cdc25B(Phospho-Ser149) Antibody	Jianying Xiao, Chao Liu, Junjie Hou, Cheng Cui,et al. (2011) Ser149 Is Another Potential PKA Phosphorylation Target of Cdc25B in G2/M Transition of Fertilized Mouse Eggs. <i>THE JOURNAL OF BIOLOGICAL CHEMISTRY VOL. 286, NO. 12, pp. 10356–10366,</i>
11553	Cdc25B(Phospho-Ser149) Antibody	XIAO Jian-Ying, LIU Chao, SUN Xiao-Han, YU Bing-Zhi, CDC25B Subcellular Localization Influences One-cell Stage Mouse Embryos[J] <i>Chinese Journal of Biochemistry and Molecular Biol</i> , 2013,V29(1): 33-41
11554	IL-10R subunit $\alpha$ (Phospho-Ser319/323) Antibody	Jiang H, Lu Y, Yuan L, Liu J (2011) Regulation of Interleukin-10 Receptor Ubiquitination and Stability by Beta-TrCP-Containing Ubiquitin E3 Ligase. <i>PLoS ONE</i> 6(11): e27464. doi:10.1371/journal.pone.0027464
11578	Niban(Phospho-Ser602) Antibody	Haitao Ji, Zhiyong Ding, DavidHawke, Dongming Xing, et al. (2012) AKT-dependent phosphorylation of Niban regulates nucleophosmin- and MDM2-mediated p53 stability and cell apoptosis. <i>EUROPEAN MOLECULAR BIOLOGY ORGANIZATION. VOL 13 NO 6:554-560</i>
11578	Niban(Phospho-Ser602) Antibody	Ji H, Ding Z, Hawake D, Jiang B, Mills G, Lu Z. AKT-dependent Phosphorylation of Niban Regulates Nucleophosmin- and MDM2-Mediated p53 Stability and Cell Apoptosis. <i>EMBO Reports</i> 13(6):554-60, 6/2012. PMID: 22510990.

## Application References Summary

11581	P38 MAPK(Phospho-Thr180/Tyr182) antibody	Jia-Ping Ruan, M.D., Hong-Xing Zhang, M.D., Xian-Fu Lu, M.D., Yue-Peng Liu, M.D., et al.(2010) EphrinBs/EphBs Signaling Is Involved in Modulation of Spinal Nociceptive Processing through a Mitogen-activated Protein Kinases-dependent Mechanism. <i>Anesthesiology</i> . 112:1234-49
11581	P38 MAPK(Phospho-Thr180/Tyr182) antibody	Peter Schubert, Danielle Coupland, Brankica Culibrk, Raymond P. Goodrich, et al. (2013) Riboflavin and ultraviolet light treatment of platelets triggers p38MAPK signaling: inhibition significantly improves in vitro platelet quality after pathogen reduction treatment. <i>TRANSFUSION</i> . Volume **, ** **
11586	Bub3 (Phospho-Tyr207) Antibody	Jiang et al., PKM2 Regulates Chromosome Segregation and Mitosis Progression of Tumor Cells, <i>Molecular Cell</i> (2014), <a href="http://dx.doi.org/10.1016/j.molcel.2013.11.001">http://dx.doi.org/10.1016/j.molcel.2013.11.001</a>
11889	phospho - ERK1/2	Yinbo Niu, Yuhua Li, Haitao Huang, Xianghe Kong, et al. (2011) Asperosaponin VI, A Saponin Component from <i>Dipsacus asper</i> Wall, induces Osteoblast Differentiation through Bone Morphogenetic Protein - 2/p38 and Extracellular Signal - regulated Kinase 1/2 Pathway. <i>Phyther. Res.</i> 25: 1700–1706
20184	p53(Ab-9) Antibody	Peng Gao, Fei Zhai, Lei Guang, Jie Zheng. (2011) Nordihydroguaiaretic acid inhibits growth of cervical cancer SiHa cells by up-regulating p21. <i>ONCOLOGY LETTERS</i> 2: 123-128
21001	c-Jun (Ab—63) Antibody	kira Ikari,Hayato Sawada, et al. (2008) Down-regulation of TRPM6-mediated magnesium influx by cyclosporin A Naunyn-Schmiedeberg's. <i>Archives of Pharmacology</i> , 377(4-6):333-43.
21002	GSK3β (Ab-9) Antibody	Cong REN, Jia-Mou LI, Xin LIN (2010)LIPUS Enhance Elongation of Neurites in Rat Cortical Neurons through Inhibition of GSK-3β. <i>Biomedical and Environmental Sciences</i> , Volume 23, Issue 3, Pages 244-249
21002	GSK3b(Ab-9) Antibody	Yu-fei Pan, Li-wei Dong, Min Wang, Guang-zhen Yang, et al. (2013) Signal regulatory protein α negatively regulates mast-cell activation following FcεRI aggregation. <i>Eur. J. Immunol.</i> 43: 1598–1607
21002	GSK3b(Ab-9) Antibody	Lei Hana, Yang Yanga, Xiao Yuea, Kai Huang, et al. (2010) Inactivation of PI3K/AKT signaling inhibits glioma cell growth through modulation of β-catenin-mediated transcription. <i>BRAIN RESEARCH</i> 1366:9–17
21002	GSK3b(Ab-9) Antibody	Wen-Fei Tan, Xue-Zhao Cao, Jun-KeWang, Huang-Wei Lv, et al. (2010) Protective effects of lithium treatment for spatial memory deficits induced by tau hyperphosphorylation in splenectomized rats. <i>Clinical and Experimental Pharmacology and Physiology</i> . 37:1010–1015
21002	GSK3b(Ab-9) Antibody	Ramiro E. Toribio, Holly A. Brown, Chad M. Novince, Brandlyn Marlow, et al.(2010) The midregion, nuclear localization sequence, and C terminus of PTHrP regulate skeletal development, hematopoiesis, and survival in mice. <i>The FASEB Journal</i> . Vol. 24 pp.1947-1957

## Application References Summary

21002	GSK3b(Ab-9) Antibody	Nan Li, Heng Lu, Chunyan Chen, Xiaodong Bu, et al. (2013) Loss of fatty acid synthase inhibits the “HER2-PI3K/Akt axis” activity and malignant phenotype of Caco-2 cells Lipids in Health and Disease. 12:83
21003	c-Jun (Ab-73) Antibody	kira Ikari,Hayato Sawada, et al. (2008) <i>Down-regulation of TRPM6-mediated magnesium influx by cyclosporin A Naunyn-Schmiedeberg's.Archives of Pharmacology</i> , 377(4-6):333-43.
21005	PDK1(Ab-241) Antibody	Dan Liu, Yi Huang, Bojiang Chen, Jing Zeng, et al. (2011) Activation of Mammalian Target of Rapamycin Pathway Confers Adverse Outcome in Nonsmall Cell Lung Carcinoma. DOI: 10.1002/cncr.25959
21005	PDK1(Ab-241) Antibody	Yongheng Cao <sup>1,2,11</sup> , Masanori Nakata <sup>3</sup> , Shiki Okamoto <sup>4</sup> , Eisuke Takano <sup>3</sup> , Toshihiko Yada <sup>3</sup> , Yasuhiko Minokoshi <sup>4</sup> , Yukio Hirata <sup>5</sup> , Kazunori Nakajima <sup>5</sup> , Kristy Iskandar <sup>1</sup> , Yoshitake Hayashi <sup>1</sup> , Wataru Ogawa <sup>6</sup> , Gregory S. Barsh <sup>7</sup> , Hiroshi Hosoda <sup>8</sup> , Kenji Kangawa <sup>8</sup> , Hiroshi Itoh <sup>9</sup> , Tetsuo Noda <sup>10</sup> , Masato Kasuga <sup>7,11</sup> , Jun Nakae, PDK1-Foxo1 in Agouti-Related Peptide Neurons Regulates Energy Homeostasis by Modulating Food Intake and Energy Expenditure, April 2011   Volume 6   Issue 4   e18324
21006	Raf1(Ab-259) Antibody	Zhi-Xin Qiu, Lei Wang,Juan Han, Dan Liu, et al.(2012) Prognostic impact of Raf-1 and p-Raf-1 expressions for poor survival rate in non-small cell lung cancer. <i>Cancer Sci.</i> vol. 103 no. 10 pp. 1774–1779
21010	NFkB-p65(Ab-254) Antibody	Naina Shah, Montserrat Montes de Oca, Maria Jover-Cobos, Ken-ichi Tanamoto, et al.(2013) Role of Toll-Like Receptor 4 in Mediating Multiorgan Dysfunction in Mice With Acetaminophen Induced Acute Liver Failure. <i>LIVER TRANSPLANTATION</i> 19:751–761
21011	NFkB-p65(Ab-276) Antibody	S. Clockaerts, Y.M. Bastiaansen-Jenniskens, C. Feijt, et al (2011) Peroxisome proliferator activated receptor alpha activation decreases inflammatory and destructive responses in osteoarthritic cartilage. <i>Osteoarthritis and Cartilage</i> , Volume 19, Issue 7, July 2011, Pages 895-902
21011	NFkB-p65(Ab-276) Antibody	Gerben M. van Buul, Wendy L.M. Koevoet, Nicole Kops, P. Koen Bos, et al.(2011) Platelet-Rich Plasma Releasate Inhibits Inflammatory Processes in Osteoarthritic Chondrocytes. <i>Am J Sports Med.</i> 39: 2362-2370
21014	NFkB-p65(Ab-536) Antibody	Naina Shah, Dipok Dhar, Fatma El Zahraa Mohammed <sup>1</sup> , Abeba Habtesion, et al. (2012) Prevention of acute kidney injury in a rodent model of cirrhosis following selective gut decontamination is associated with reduced renal TLR4 expression. <i>Journal of Hepatology.</i> vol. 56:1047–1053
21021	c-Jun (Ab-91) Antibody	kira Ikari,Hayato Sawada, et al. (2008) Down-regulation of TRPM6-mediated magnesium influx by cyclosporin A Naunyn-Schmiedeberg's. <i>Archives of Pharmacology</i> , 377(4-6):333-43.
21022	c-Jun(Ab-93) Antibody	Manujendra N. Saha <sup>1,2</sup> , Hua Jiang <sup>3</sup> , Yijun Yang <sup>1,2</sup> , Xiaoyun Zhu <sup>1,2</sup> , Xiaoming Wang <sup>4</sup> , Aaron D.Schimmer <sup>4</sup> , Lugui Qiu <sup>5</sup> , Hong Chang,Targeting p53 via JNK Pathway: A Novel Role of RITA for Apoptotic Signaling in Multiple

## Application References Summary

		Myeloma, January 2012   Volume 7   Issue 1   e30215
21034	Myc(Ab-58) Antibody	S.Y. Liu, Y.L. Ma, E.H.Y. Lee. (2013) NMDA receptor signaling mediates the expression of protein inhibitor of activated STAT1 (PIAS1) in rat hippocampus. <i>Neuropharmacology</i> . 65:101-113
21035	Myc(Ab-358) Antibody	S.Y. Liu, Y.L. Ma, E.H.Y. Lee. (2013) NMDA receptor signaling mediates the expression of protein inhibitor of activated STAT1 (PIAS1) in rat hippocampus. <i>Neuropharmacology</i> . 65:101-113
21036	Myc(Ab-373) Antibody	S.Y. Liu, Y.L. Ma, E.H.Y. Lee. (2013) NMDA receptor signaling mediates the expression of protein inhibitor of activated STAT1 (PIAS1) in rat hippocampus. <i>Neuropharmacology</i> . 65:101-113
21044	STAT1(Ab-701) Antibody	Xiang Cheng, Jing Wang, Ni Xia, Xin-Xin Yan, et al. (2012) A guanidine-rich regulatory oligodeoxy-nucleotide improves type-2 diabetes in obese mice by blocking T-cell differentiation. <i>EMBO Mol Med</i> . 4:1112–1125
21045	STAT3 (Ab-705) Antibody	Takuya Takeichi, Kazumitsu Sugiura, Yoshinao Muro, et al (2010) Overexpression of LEDGF/DFS70 Induces IL-6 via p38 Activation in HaCaT Cells, Similar to that Seen in the Psoriatic Condition. <i>Journal of Investigative Dermatology</i> 130, 2760-2767
21045	STAT3 (Ab-705) Antibody	Emilio García-Prieto, Adrián González-López, Sandra Cabrera, et al (2010) Resistance to Bleomycin-Induced Lung Fibrosis in MMP-8 Deficient Mice Is Mediated by Interleukin-10. <i>PloS one</i> , 5(10): e13242.
21045	STAT3(Ab-705) Antibody	Xiang Cheng, Jing Wang, Ni Xia, Xin-Xin Yan, et al. (2012) A guanidine-rich regulatory oligodeoxy-nucleotide improves type-2 diabetes in obese mice by blocking T-cell differentiation. <i>EMBO Mol Med</i> . 4:1112–1125
21046	STAT3(Ab-727) Antibody	Xiang Cheng, Jing Wang, Ni Xia, Xin-Xin Yan, et al. (2012) A guanidine-rich regulatory oligodeoxy-nucleotide improves type-2 diabetes in obese mice by blocking T-cell differentiation. <i>EMBO Mol Med</i> . 4:1112–1125
21046	STAT3(Ab-727) Antibody	Heng-Chao Yu, Hong-Yan Qin, Fei He, Lin Wang, et al. (2011) Canonical Notch Pathway Protects Hepatocytes from Ischemia/Reperfusion Injury in Mice by Repressing Reactive Oxygen Species Production Through JAK2/STAT3 Signaling. <i>HEPATOLOGY</i> , Vol. 54, No. 3, 979-988
21047	STAT4(Ab-693) Antibody	Xiang Cheng, Jing Wang, Ni Xia, Xin-Xin Yan, et al. (2012) A guanidine-rich regulatory oligodeoxy-nucleotide improves type-2 diabetes in obese mice by blocking T-cell differentiation. <i>EMBO Mol Med</i> . 4:1112–1125
21049	STAT5a(Ab-780) Antibody	Xiang Cheng, Jing Wang, Ni Xia, Xin-Xin Yan, et al. (2012) A guanidine-rich regulatory oligodeoxy-nucleotide improves type-2 diabetes in obese mice by blocking T-cell differentiation. <i>EMBO Mol Med</i> . 4:1112–1125
21051	STAT6(Ab-645) Antibody	Xiang Cheng, Jing Wang, Ni Xia, Xin-Xin Yan, et al. (2012) A guanidine-rich regulatory oligodeoxy-nucleotide improves type-2 diabetes in obese mice by blocking T-cell differentiation. <i>EMBO Mol Med</i> . 4:1112–1125

## Application References Summary

21052	CREB (Ab-133) Antibody	Tomasz Boczek, Anna Kozaczuk, Bozena Ferenc, Michalina Kosiorek and Slawomir Pikula, et al. Gene expression pattern in PC12 cells with reduced PMCA2 or PMCA3 isoform: selective up-regulation of calmodulin and neuromodulin. <i>Molecular and Cellular Biochemistry</i> , 12 September 2011
21053	ATF4 (Ab-245) Antibody	Hong-Li Wu, Yu-Hua Li, Yan-Hua Lin, et al. (2008) Salvianolic acid B protects human endothelial cells from oxidative stress damage: a possible protective role of glucose-regulated protein 78 induction. <i>Cardiovasc Res</i> , 81:148-158
21054	Akt (Ab-473) Antibody	Young Yil Bahk, Ick-Hyun Cho, Tong Soo Kim. A Cross-talk between oncogenic Ras and tumor suppressor PTEN through FAK Tyr861 phosphorylation in NIH/3T3 mouse embryonic fibroblasts. <i>Biochemical and Biophysical Research Communications</i> , 377:1199–1204.
21054	Akt (Ab-473) Antibody	Jing Zhang, Osamu Yamada, Yoshihisa Matsushita, ect.(2009) Transactivation of human osteopontin promoter by human T-cell leukemia virus type 1-encoded Tax protein <i>Leukemia Research</i> in press.
21054	Akt (Ab-473) Antibody	Seyoon Kim, Yong Zu Lee, Yu Sam Kim, et al (2008) A Proteomic approach for protein-profiling the oncogenic ras induced transformation (H-, K-, and N-Ras) in NIH/3T3 mouse embryonic fibroblasts. <i>Proteomics</i> , 8 (15), 3082 - 3093
21054	Akt (Ab-473) Antibody	Hyun Seung Ban, Masaharu Uno, Hiroyuki Nakamura, et al (2010) Suppression of hypoxia-induced HIF-1 [alpha] accumulation by VEGFR inhibitors: Different profiles of AAL993 versus SU5416 and KRN633. <i>Cancer letters</i> , 296,( 1) 17-26
21054	Akt (Ab-473) Antibody	Yingjia Guo, Tong Yang, Jun Lu, et al (2011) Rb1 postconditioning attenuates liver warm ischemia–reperfusion injury through ROS-NO-HIF pathway. <i>Life Sciences</i> , Volume 88, Issues 13-14, Pages 598-605
21054	Akt(Ab-473) Antibody	Nan Li, Xiaodong Bu, Peng Wu, Pingping Wu, Peilin Huang (2012) The “HER2–PI3K/Akt–FASN Axis” Regulated Malignant Phenotype of Colorectal Cancer Cells. <i>Lipids</i> 47:403–411
21054	Akt(Ab-473) Antibody	Ze-yang Ding, Guan-nan Jin, Hui-fang Liang, Wei Wang, et al. (2013) Transforming growth factor $\beta$ induces expression of connective tissue growth factor in hepatic progenitor cells through Smad independent signaling. <i>Cellular Signalling</i> , 25:1981–1992
21054	Akt(Ab-473) Antibody	Libing Ma, Jinxiu Li, Guyi Wang, Subo Gong, et al.(2013) Atrial natriuretic peptide suppresses Th17 development through regulation of cGMP-dependent protein kinase and PI3K–Akt signaling pathways. <i>Regulatory Peptides</i> . 181:9–16
21054	Akt(Ab-473) Antibody	Chen, Song,(2012) The role of cad,flash and fam129b in cancer cell survival and apoptosis. <i>Wayne State University Dissertations</i> . Paper428
21054	Akt(Ab-473) Antibody	Heng-Chao Yu, Hong-Yan Qin, Fei He, Lin Wang, et al. (2011) Canonical Notch Pathway Protects Hepatocytes from Ischemia/Reperfusion Injury in Mice by Repressing Reactive Oxygen Species Production Through

## Application References Summary

		JAK2/STAT3 Signaling. HEPATOLOGY, Vol. 54, No. 3, 979-988
21054	Akt(Ab-473) Antibody	Massimo Nabissi, Maria Beatrice Morelli <sup>1</sup> , Consuelo Amantini, Valerio Farfariello <sup>1</sup> , et al. (2010) TRPV2 channel negatively controls glioma cell proliferation and resistance to Fas-induced apoptosis in ERK-dependent manner. Carcinogenesis vol.31 no.5 pp.794–803
21054	Akt(Ab-473) Antibody	Ramiro E. Toribio, Holly A. Brown, Chad M. Novince, Brandlyn Marlow, et al.(2010) The midregion, nuclear localization sequence, and C terminus of PTHrP regulate skeletal development, hematopoiesis, and survival in mice. The FASEB Journal. Vol. 24 pp.1947-1957
21054	Akt(Ab-473) Antibody	Hu Ma, Quan Yao, An-Mei Zhang, Sheng Lin, Xin-Xin Wang, Lei Wu, Jian-Guo Sun, and Zheng-Tang Chen (2011) The Effects of Artesunate on the Expression of EGFR and ABCG2 in A549 Human Lung Cancer Cells and a Xenograft Model. Molecules 2011, 16, 10556-10569; doi:10.3390/molecules161210556
21054	Anti-STAT3	Heng-Fei Luan <sup>1*</sup> , Zhi-Bin Zhao <sup>1*</sup> , Qi-Hong Zhao <sup>2</sup> , Pin Zhu <sup>1</sup> , Ming-Yu Xiu <sup>1</sup> and Yong Ji, Hydrogen sulfide postconditioning protects isolated rat hearts against ischemia and reperfusion injury mediated by the JAK2/STAT3 survival pathway
21054	Akt(Ab-473) Antibody	Hongxia Zhanga, <sup>1</sup> Junjie Houb, <sup>1</sup> Ruina Cuia, Xuejiang Guoc, Zhimin Shia, Fuquan Yangb, Jiayin Daia, Phosphoproteome analysis reveals an important role for glycogen synthase kinase-3 in perfluorododecanoic acid-induced rat liver toxicity, Toxicology Letters 218 (2013) 61– 69
21054	Akt(Ab-473) Antibody	Song Chen, Hedeel Guy Evans and David R., Evans, FAM129B/MINERVA, a Novel Adherens Junction-associated Protein, Suppresses Apoptosis in HeLa Cells, J. Biol. Chem. 2011, 286:10201-10209.
21054	Akt(Ab-473) Antibody	Shen J, et al., The use of hollow mesoporous silica nanospheres to encapsulate bortezomib and improve efficacy for non-small cell lung cancer therapy, Biomaterials (2013) Volume 35, Issue 1, January 2014, Pages 316–326
21055	Akt (Ab-308) Antibody	Nabissi Massimo, Morelli Maria Beatrice, Amantini Consuelo, et al (2010) TRPV2 channel negatively controls glioma cell proliferation and resistance to Fas-induced apoptosis in ERK-dependent manner. Carcinogenesis. 0: bgq019v1-bgq019
21055	Akt(Ab-308) Antibody	Nan Li, Xiaodong Bu, Peng Wu, Pingping Wu, Peilin Huang (2012) The “HER2–PI3K/Akt–FASN Axis” Regulated Malignant Phenotype of Colorectal Cancer Cells. Lipids 47:403–411
21055	Akt(Ab-308) Antibody	Hyun Seung Ban, Masaharu Uno, Hiroyuki Nakamura. (2010) Suppression of hypoxia-induced HIF-1a accumulation by VEGFR inhibitors: Different profiles of AAL993 versus SU5416 and KRN633. Cancer Letters. 296:17–26
21055	Akt(Ab-308) Antibody	Yingjia Guo, Tong Yang, Jun Lu, Shengfu Li, et al. (2011) Rb1 postconditioning attenuates liver warm ischemia–reperfusion injury through ROS-NO-HIF pathway. Life Sciences. 88:598–605



## Application References Summary

21055	Akt(Ab-308) Antibody	Nan Li, Heng Lu, Chunyan Chen, Xiaodong Bu, et al. (2013) Loss of fatty acid synthase inhibits the “HER2-PI3K/Akt axis” activity and malignant phenotype of Caco-2 cells Lipids in Health and Disease. 12:83
21055	Akt(Ab-308) Antibody	Hongxia Zhanga,1, Junjie Houb,1, Ruina Cuia, Xuejiang Guoc, Zhimin Shia, Fuquan Yangb, Jiayin Daia, Phosphoproteome analysis reveals an important role for glycogen synthase kinase-3 in perfluorododecanoic acid-induced rat liver toxicity, Toxicology Letters 218 (2013) 61– 69
21057	PTEN(Ab-370) Antibody	Zhi Li & Gong Xiang Liu & Yu Lan Liu & Xi Chen & Xiao Li Huang & Hua Tian Gan, Effect of adenovirus-mediated PTEN gene on ulcerative colitis-associated colorectal cancer, Int J Colorectal Dis (2013) 28:1107–1115
21059	BCL-2(Ab-56) Antibody	Wei-Jun Pang, Yan Xiong, Zhao Zhang, Ning Wei, Ni Chen, Gong-she Yang (2013) Lentivirus-mediated Sirt1 shRNA and resveratrol independently induce porcine preadipocyte apoptosis by canonical apoptotic pathway. Mol Biol Rep. 40:129–139
21060	BCL-2(Ab-70) Antibody	Wei-Jun Pang, Yan Xiong, Zhao Zhang, Ning Wei, Ni Chen, Gong-she Yang (2013) Lentivirus-mediated Sirt1 shRNA and resveratrol independently induce porcine preadipocyte apoptosis by canonical apoptotic pathway. Mol Biol Rep. 40:129–139
21064	BAD(Ab-155) Antibody	Yi Huang • Dan Liu • Bojiang Chen • Jing Zeng • Lei Wang • Shangfu Zhang • Xianming Mo • Weimin Li, Loss of Bad expression confers poor prognosis in non-small cell lung cancer, Med Oncol (2012) 29:1648–1655
21065	Estrogen Receptor- $\alpha$ (Ab-104) Antibody	Yamaguchi, J Zhu, T Yu, et al. (2007) Serum-free mouse embryo cells generate a self-sustaining feedback loop for an astrocyte marker protein and respond to cytokines and bisphenol A in accordance with the subtle difference in their differentiation state. <i>Cell Biology International</i> , 31(6):638-644.
21066	Estrogen Receptor- $\alpha$ (Ab-106) Antibody	Yamaguchi, J Zhu, T Yu, et al. (2007) Serum-free mouse embryo cells generate a self-sustaining feedback loop for an astrocyte marker protein and respond to cytokines and bisphenol A in accordance with the subtle difference in their differentiation state. <i>Cell Biology International</i> , 31(6):638-644.
21070	HER2(Ab-877) Antibody	Nan Li, Xiaodong Bu, Peng Wu, Pingping Wu, Peilin Huang (2012) The “HER2–PI3K/Akt–FASN Axis” Regulated Malignant Phenotype of Colorectal Cancer Cells. Lipids 47:403–411
21071	HER2(Ab-1221/1222) Antibody	Nan Li, Xiaodong Bu, Peng Wu, Pingping Wu, Peilin Huang (2012) The “HER2–PI3K/Akt–FASN Axis” Regulated Malignant Phenotype of Colorectal Cancer Cells. Lipids 47:403–411

## Application References Summary

21072	HER2(Ab-1248) Antibody	Nan Li, Xiaodong Bu, Peng Wu, Pingping Wu, Peilin Huang (2012) The “HER2–PI3K/Akt–FASN Axis” Regulated Malignant Phenotype of Colorectal Cancer Cells. <i>Lipids</i> 47:403–411
21072	HER2(Ab-1248) Antibody	Nan Li, Heng Lu, Chunyan Chen, Xiaodong Bu, et al. (2013) Loss of fatty acid synthase inhibits the “HER2-PI3K/Akt axis” activity and malignant phenotype of Caco-2 cells <i>Lipids in Health and Disease</i> . 12:83
21073	EGFR(Ab-1070) Antibody	Bin Gui, Xiao Han, Yu Zhang, Jing Liang, Dandan Wang, et al (2012) Dimerization of ZIP promotes its transcriptional repressive function and biological activity. <i>The International Journal of Biochemistry &amp; Cell Biology</i> . 44 : 886– 895
21074	EGFR(Ab-1092) Antibody	Bin Gui, Xiao Han, Yu Zhang, Jing Liang, Dandan Wang, et al (2012) Dimerization of ZIP promotes its transcriptional repressive function and biological activity. <i>The International Journal of Biochemistry &amp; Cell Biology</i> . 44 : 886– 895
21079	VEGFR2(Ab-951) Antibody	Qi Zhao, Takako Yokozawa, Noriko Yamabe, et al (2010) Kangen-karyu improves memory deficit caused by aging through normalization of neuro-plasticity-related signaling system and VEGF system in the brain. <i>Journal of Ethnopharmacology</i> , Article in Press
21079	VEGFR2(Ab-951) Antibody	Qi Zhao, Takako Yokozawa, Koichi Tsuneyama, Ken Tanaka and Takeshi Miyata, et al. Chotosan (Diateng San)-induced improvement of cognitive deficits in senescence-accelerated mouse (SAMP8) involves the amelioration of angiogenic/neurotrophic factors and neuroplasticity systems in the brain. <i>Chinese Medicine</i> , 2011, Volume 6, Number 1, 33
21079	VEGFR2(Ab-951) Antibody	Qi Zhao, Yimin Niu, Kinzo Matsumoto <sup>1</sup> , Koichi Tsuneyama, et al. (2012) Chotosan ameliorates cognitive and emotional deficits in an animal model of type 2 diabetes: possible involvement of cholinergic and VEGF/PDGF mechanisms in the brain. <i>BMC Complementary and Alternative Medicine</i> . 12:188
21080	IGF-1R(Ab-1161) Antibody	Hossein Haghiri, Abd-Al-Rahim Rezaee, Hossein Nomani, Mojtaba Sankian, et al. (2013) Sexual Dimorphism in Expression of Insulin and Insulin-Like Growth Factor-I Receptors in Developing Rat Cerebellum. <i>Cell Mol Neurobiol</i> . 33:369–377
21080	IGF-1R(Ab-1161) Antibody	TAKETSUGU YAMAMOTO, TAKASHI OSHIMA, KAZUE YOSHIHARA, TEPPEI NISHI, HIROMASA ARAI, KENJI INUI, TAKESHI KANEKO, AKINORI NOZAWA, HIROYUKI ADACHI, YASUSHI RINO, MUNETAKA MASUDA and TOSHIO IMADA (2012) Clinical significance of immunohistochemical expression of insulin-like growth factor-1 receptor and matrix metalloproteinase-7 in resected non-small cell lung cancer, <i>EXPERIMENTAL AND THERAPEUTIC MEDICINE</i> 3: 797-802, 2012

## Application References Summary

21081	IGF-1R(Ab-1165/1166) Antibody	Chao Han, Remi Quirion, Wenhua Zheng et al (2011) Glutamate attenuates IGF-1 receptor signaling via NR2B containing NMDA receptors and neuronal nitric oxide synthase. Biochemical and Biophysical Research Communications, In Press,
21081	IGF-1R(Ab-1165/1166) Antibody	Hossein Haghiri, Abd-Al-Rahim Rezaee, Hossein Nomani, Mojtaba Sankian, et al.(2013) Sexual Dimorphism in Expression of Insulin and Insulin-Like Growth Factor-I Receptors in Developing Rat Cerebellum. Cell Mol Neurobiol. 33:369–377
21083	p53(Ab-6) Antibody	Haitao Ji, Zhiyong Ding, David Hawke, Dongming Xing, et al. (2012) AKT-dependent phosphorylation of Niban regulates nucleophosmin- and MDM2-mediated p53 stability and cell apoptosis. EUROPEAN MOLECULAR BIOLOGY ORGANIZATION. VOL 13 NO 6:554-560
21083	p53(Ab-6) Antibody	Peng Gao, Fei Zhai, Lei Guang, Jie Zheng. (2011) Nordihydroguaiaretic acid inhibits growth of cervical cancer SiHa cells by up-regulating p21. ONCOLOGY LETTERS 2: 123-128
21083	p53(Ab-6) Antibody	Ji H, Ding Z, Hawake D, Jiang B, Mills G, Lu Z. AKT-dependent Phosphorylation of Niban Regulates Nucleophosmin- and MDM2-Mediated p53 Stability and Cell Apoptosis. EMBO Reports 13(6):554-60, 6/2012. PMID: 22510990.
21085	p53(Ab-15) Antibody	Peng Gao, Fei Zhai, Lei Guang, Jie Zheng. (2011) Nordihydroguaiaretic acid inhibits growth of cervical cancer SiHa cells by up-regulating p21. ONCOLOGY LETTERS 2: 123-128
21086	p53(Ab-18) Antibody	Peng Gao, Fei Zhai, Lei Guang, Jie Zheng. (2011) Nordihydroguaiaretic acid inhibits growth of cervical cancer SiHa cells by up-regulating p21. ONCOLOGY LETTERS 2: 123-128
21090	p53(Ab-46) Antibody	Lei Zhang, Junshan Ruan, Linggeng Yan, Weidong Li, et al.(2012) Xanthatin Induces Cell Cycle Arrest at G2/M Checkpoint and Apoptosis via Disrupting NF- $\kappa$ B Pathway in A549 Non-Small-Cell Lung Cancer Cells. Molecules. 17:3736-3750
21103	$\beta$ -Catenin(Ab-41/45) Antibody	Qingsong Wang, Jintang He, Lingyao Meng, et al.(2010) A Proteomics Analysis of Rat Liver Membrane Skeletons: The Investigation of Actin- and Cytokeratin-Based Protein Components. <i>Journal of Proteome Research</i> , 9, 22–29
21103	$\beta$ -Catenin(Ab-41/45) Antibody	Chih-Kai Liao, Seu-Mei Wang, Yuh-Lien Chen, et al (2010) Lipopolysaccharide-induced inhibition of connexin43 gap junction communication in astrocytes is mediated by downregulation of caveolin-3. <i>The International Journal of Biochemistry &amp; Cell Biology</i> , Volume 42, Issue 5, May 2010, Pages 762–770
21106	ICAM-1(Ab-512) Antibody	Oualid Sbai, Adlane Ould-Yahoui, Lotfi Ferhat, et al.(2009) Differential vesicular distribution and trafficking of MMP-2, MMP-9, and their inhibitors in astrocytes. <i>Glia</i> , 58( 3), 344 – 366

## Application References Summary

21106	ICAM-1(Ab-512) Antibody	Xi-Jin Wang, Shi Zhang, Zhi-Qiang Yan, et al(2011) Impaired CD200–CD200R-mediated microglia silencing enhances midbrain dopaminergic neurodegeneration: Roles of aging, superoxide, NADPH oxidase, and p38 MAPK. <i>Free Radical Biology and Medicine</i> , Volume 50, Issue 9, Pages 1094-1106
21109	Rb(Ab-807) Antibody	Hui Xu1, Yaping Yan, Mark S. Williams, Gregory B. Carey, et al. (2010) MS4a4B, a CD20 Homologue in T Cells, Inhibits T Cell Propagation by Modulation of Cell Cycle. <i>PLoS ONE</i> 5(11): e13780. doi:10.1371/journal.pone.0013780
21110	Rb(Ab-780)Antibody	Xueting Cai, Tingmei Ye, Chao Liu, et al (2011) Luteolin induced G2 phase cell cycle arrest and apoptosis on non-small cell lung cancer cells. <i>Toxicology in Vitro</i> , Volume 25, Issue 7, Pages 1385-1391
21110	Rb(Ab-780) Antibody	Heidi Braumuller, ThomasWieder, Ellen Brenner, Sonja Aßmann, et al. (2013) T-helper-1-cell cytokines drive cancer into senescence. <i>NATURE</i> .494:361-366
21111	CDK2 (Ab-160) Antibody	Song Chen, Hedeel Guy Evans and David R.Evans (2010)FAM129B/minerva, a novel adherens junction associated protein suppresses apoptosis in hela cells. <i>Journal of Biological Chemistry</i> , 2010 - ASBMB
21111	CDK2(Ab-160) Antibody	Chen, Song,(2012) The role of cad,flash and fam129b in cancer cell survival and apoptosis. <i>Wayne State University Dissertations</i> . Paper428
21119	JAK1 (Ab-1022) Antibody	Dan Liu, Yi Huang, Jing Zeng, Bojiang Chen and Na Huang, et al.Down-regulation of JAK1 by RNA interference inhibits growth of the lung cancer cell line A549 and interferes with the PI3K/mTOR pathway. <i>Journal of Cancer Research and Clinical Oncology</i> , 2011, Volume 137, Number 11, Pages 1629-164
21125	ASK1 (Ab-83) Antibody	Min Yang, Mingcan Yu, Dongyin Guan,et al(2010) ASK1-JNK signaling cascade mediates Ad-ST13-induced apoptosis in colorectal HCT116 cells. <i>Journal of Cellular Biochemistry</i> ,110(3), 581 - 588
21127	LIMK1 (Ab-508) Antibody	Li, X., Ke, Q., Li, Y., Liu, F., Zhu, G., & Li, F., et al. (2008)DGCR6L, A Novel PAK4 Interaction Protein, Regulates PAK4-mediated migration of Human Gastric Cancer Cell via LIMK1 <i>International Journal of Biochemistry and Cell Biology</i> , 42: 70–79
21129	PLCγ1 (Ab-783) Antibody	Cheng-Ying Hsieh, Chien-Liang Liu, Ming-Jen Hsu ,et al(2010)Inhibition of vascular smooth muscle cell proliferation of vitamin E derivative pentamethylhydroxychromane in an in vitro and in vivo study: Pivotal role of hydroxyl radical-mediated PLCγ1 and JAK2 phosphorylation. <i>Free Radical Biology and Medicine</i> , Article in Press, Accepted Manuscript
21129	PLCg1(Ab-783) Antibody	Yu-fei Pan, Li-wei Dong, Min Wang, Guang-zhen Yang, et al. (2013) Signal regulatory protein α negatively regulates mast-cell activation following FcεRI aggregation. <i>Eur. J. Immunol.</i> 43: 1598–1607

## Application References Summary

21130	AMPKa1(Ab-487) Antibody	Yan-Na Huang, Jian-Hua Qi, Lan Xiang , Yi-Zhen Wang (2012) Construction of adiponectin-encoding plasmid DNA and overexpression in mice in vivo. <i>Gene</i> 502 (2012) 87–93
21134	ASK1 (Ab-966) Antibody	Min Yang, Mingcan Yu, Dongyin Guan, et al(2010) ASK1-JNK signaling cascade mediates Ad-ST13-induced apoptosis in colorectal HCT116 cells. <i>Journal of Cellular Biochemistry</i> ,110(3), 581 - 588
21137	Histone H3.1(Ab-10) Antibody	Guo-Dong Li , Xi Zhang , Rong Li , et al. (2008)CHP2 activates the calcineurin/NFAT signaling pathway and enhances the oncogenic potential of HEK293 cells <i>JBC</i> , 283 (47): 32660–32668
21137	Histone H3.1(Ab-10) Antibody	Chao Yu, Ting Shan, Aiwen Feng, et al(2011) Triptolide ameliorates Crohn's colitis is associated with inhibition of TLRs/NF-κB signaling pathway. <i>Fitoterapia</i> , Volume 82, Issue 4, June 2011, Pages 709-715
21137	Histone H3.1(Ab-10) Antibody	MIN HUANG, JING ZHOU, LIQING BI, QIAN ZHANG, SUMING ZHOU (2012) Anti-Toll-like receptor 2 antibody, T2.1, reduces tumor necrosis factor α and interleukin-6 release and inhibits nuclear factor κB expression in bacterial lipoprotein stimulated THP-1 cells. <i>Centr Eur J Immunol</i> . 37 (1): 6-10
21137	Histone H3.1(Ab-10) Antibody	Chen S, Evans HG, Evans DR (2012) FLASH Knockdown Sensitizes Cells To Fas-Mediated Apoptosis via Down-Regulation of the Anti-Apoptotic Proteins, MCL-1 and Cflip Short. <i>PLoS ONE</i> 7(3): e32971. doi:10.1371/journal.pone.0032971
21137	Histone H3.1(Ab-10) Antibody	Yingyi Zhang, Yu Zhao, Hang Li, Yinghui Li, et al.(2013) Cancer Cells Phosphorylation of Both Proteins in Breast on Interacting with c-Fos and Hepatitis B X-interacting Protein Depends The Nuclear Import of Oncoprotein. <i>J. Biol. Chem.</i> 10.1074/jbc.M113.458638
21137	Histone H3.1(Ab-10) Antibody	Chen, Song,(2012) The role of cad,flash and fam129b in cancer cell survival and apoptosis. Wayne State University Dissertations. Paper428
21137	Histone H3.1(Ab-10) Antibody	C.Y. MA, C.P. ZHANG, L.P. ZHONG, H.Y. PAN1, et al. (2011) Decreased expression of profilin 2 in oral squamous cell carcinoma and its clinicopathological implications. <i>ONCOLOGY REPORTS</i> 26: 813-823
21137	Histone H3.1(Ab-10) Antibody	Xiangyang Yao, Fenfen Zhu, Zhihui Zhao, Chang Liu, et al. (2011) Arctigenin Enhances Chemosensitivity of Cancer Cells to Cisplatin Through Inhibition of the STAT3 Signaling Pathway. <i>Journal of Cellular Biochemistry</i> 112:2837–2849
21137	Histone H3.1(Ab-10) Antibody	Zenglin Liao†, Jiajia Dong†, Wei Wu, Ting Yang, Tao Wang, Lingli Guo, Lei Chen, Dan Xu and Fuqiang Wen, Resolvin D1 attenuates inflammation in lipopolysaccharide-induced acute lung injury through a process involving the PPARγ/NF-κB pathway, Liao et al. <i>Respiratory Research</i> 2012, 13:110
21138	FKHR(Ab-256) Antibody	Libing Ma, Jinxiu Li, Guyi Wang, Subo Gong, et al.(2013) Atrial natriuretic peptide suppresses Th17 development through regulation of cGMP-dependent protein kinase and PI3K–Akt signaling pathways. <i>Regulatory Peptides</i> . 181:9–16

## Application References Summary

21142	HDAC5 (Ab-498) Antibody	Pang J, Yan C, Natarajan K, et al. (2008) GIT1 mediates HDAC5 activation by angiotensin II in vascular smooth muscle cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 28(5):892-8.
21142	HDAC5 (Ab-498) Antibody	Weiyue Wang, Chang Hoon Ha, Bong Sook Jhun, et al (2010) Fluid shear stress stimulates phosphorylation-dependent nuclear export of HDAC5 and mediates expression of KLF2 and eNOS. <i>Blood</i> , 115( 14), 2971-2979.
21144	HSP27(Ab-15) Antibody	Wenbo Ma <sup>1</sup> , Yan Teng <sup>1</sup> , Hui Hua, Jinlin Hou <sup>1</sup> , Ting Luo and Yangfu Jiang (2013) Upregulation of heat shock protein 27 confers resistance to actinomycin D-induced apoptosis in cancer cells. <i>FEBS Journal</i> . 10 :1-13
21147	ATM(Ab-1981) Antibody	Hiroaki Inaba, Masae Kuboniwa, Hideyuki Sugita, Richard J. Lamont and Atsuo Amano, Identification of Signaling Pathways Mediating Cell Cycle Arrest and Apoptosis Induced by <i>Porphyromonas gingivalis</i> in Human Trophoblasts, <i>Infect. Immun.</i> 2012, 80(8):2847. DOI: 10.1128/IAI.00258-12.
21149	p21Cip1(Ab-145) Antibody	Masahiko Kanehira, Toshiaki Kikuchi, Shinya Ohkouchi, Taizou Shibahara, et al. (2012) Targeting Lysophosphatidic Acid Signaling Retards Culture-Associated Senescence of Human Marrow Stromal Cells. <i>PLoS ONE</i> 7(2): e32185. doi:10.1371/journal.pone.0032185
21150	p27Kip1 (Ab-10) Antibody	Fan Yang, Yu-Ping Xu , et al (2009). Cloning and Characterization of a Novel Intracellular Protein p48.2 that Negatively Regulates Cell Cycle Progression. <i>The International Journal of Biochemistry &amp; Cell Biology</i> , 41 (11): 2240–2250
21160	PAK1(Ab-212) Antibody	Bingyuan Wang <sup>1†</sup> , Wei Ma <sup>1,3†</sup> , Xiaoling Xu <sup>1,2</sup> , Chao Wang <sup>1</sup> , Yubo Zhu <sup>1</sup> , Na An <sup>1</sup> , Lei An <sup>1</sup> , Zhonghong Wu and Jianhui Tian <sup>1</sup> , Phosphorylation of histone H3 on Ser10 by auto-phosphorylated PAK1 is not essential for chromatin condensation and meiotic progression in porcine oocytes, Wang et al. <i>Journal of Animal Science and Biotechnology</i> 2013, 4:13
21163	cdc25A(Ab-76) Antibody	XIAO Jian-Ying, LIU Chao, SUN Xiao-Han, YU Bing-Zhi, CDC25B Subcellular Localization Influences One-cell Stage Mouse Embryos[J] <i>Chinese Journal of Biochemistry and Molecular Biol</i> , 2013, V29(1): 33-41
21164	cofilin(Ab-3) Antibody	Lijun Zhang, Jun Luo, Ping Wan, Jing Wu, et al. (2011) Regulation of cofilin phosphorylation and asymmetry in collective cell migration during morphogenesis. <i>Development</i> . 138:455-464
21166	IRS-1 (Ab-312) Antibody	Daisuke Ekuni , Takaaki Tomofuji , Koichiro Irie, et al (2010) Effects of periodontitis on aortic insulin resistance in an obese rat model. <i>Laboratory Investigation</i> , doi:10.1038
21168	Src (Ab-529) Antibody	Yanhua Zheng, Yan Xia, Xiang Gao, Zhimin Lu, et al. (2009) Molecular Cell, 35:11–25 FAK Phosphorylation by ERK Primes Ras-Induced Tyrosine Dephosphorylation of FAK Mediated by PIN1 and PTP-PEST.
21170	Anti-eNOS antibody	Jian Jiao, Hong Wang, Wei Lou, et al (2011) Regulation of ciliary beat frequency by the nitric oxide signaling pathway in mouse nasal and tracheal epithelial cells. <i>Experimental Cell Research</i> , Volume 317, Issue 17, Pages

## Application References Summary

		2548-2553
21177	STAT1(Ab-727) Antibody	Xiang Cheng, Jing Wang, Ni Xia, Xin-Xin Yan, et al. (2012) A guanidine-rich regulatory oligodeoxy-nucleotide improves type-2 diabetes in obese mice by blocking T-cell differentiation. <i>EMBO Mol Med.</i> 4:1112–1125
21187	FLT3 (Ab-591) Antibody	Nana Ninagawa, Rumi Murakami, Eri Isobe, et al (2011) Mesenchymal stem cells originating from ES cells show high telomerase activity and therapeutic benefits. <i>Differentiation</i> , Volume 82, Issue 3, Pages 153-164
21193	EGFR(Ab-678) Antibody	Bin Gui, Xiao Han, Yu Zhang, Jing Liang, Dandan Wang, et al (2012) Dimerization of ZIP promotes its transcriptional repressive function and biological activity. <i>The International Journal of Biochemistry &amp; Cell Biology.</i> 44 : 886– 895
21194	EGFR(Ab-693) Antibody	Bin Gui, Xiao Han, Yu Zhang, Jing Liang, Dandan Wang, et al (2012) Dimerization of ZIP promotes its transcriptional repressive function and biological activity. <i>The International Journal of Biochemistry &amp; Cell Biology.</i> 44 : 886– 895
21196	Ephrin-B2(Ab-330) Antibody	Ramiro E. Toribio, Holly A. Brown, Chad M. Novince, Brandlyn Marlow, et al.(2010) The midregion, nuclear localization sequence, and C terminus of PTHrP regulate skeletal development, hematopoiesis, and survival in mice. <i>The FASEB Journal.</i> Vol. 24 pp.1947-1957
21209	Pyk2(Ab-402) Antibody	Rui-Fang Liu a,b, Xiao Xu a,b, Jian Huang a,b, Qian-Lan Fei b, Fei Chen b, Yan-Dong Li b, Ze-Guang Han, Down-regulation of miR-517a and miR-517c promotes proliferation of hepatocellular carcinoma cells via targeting Pyk2, <i>Cancer Letters</i> 329 (2013) 164–173
21211	$\beta$ -Catenin (Ab-33) Antibody	Qingsong Wang, Jintang He, Lingyao Meng, et al.(2010) A Proteomics Analysis of Rat Liver Membrane Skeletons: The Investigation of Actin- and Cytokeratin-Based Protein Components. <i>Journal of Proteome Research</i> , 9, 22–29
21211	$\beta$ -Catenin (Ab-33) Antibody	Chih-Kai Liao, Seu-Mei Wang, Yuh-Lien Chen, et al (2010) Lipopolysaccharide-induced inhibition of connexin43 gap junction communication in astrocytes is mediated by downregulation of caveolin-3. <i>The International Journal of Biochemistry &amp; Cell Biology</i> , In press
21211	$\beta$ -Catenin (Ab-33) Antibody	Lei Hana, Yang Yanga, Xiao Yue, et al (2010) Inactivation of PI3K/AKT signaling inhibits glioma cell growth through modulation of [beta]-catenin-mediated transcription. <i>Brain Research</i> , 1366, 9-17
21212	$\beta$ -Catenin (Ab-37) Antibody	Qingsong Wang, Jintang He, Lingyao Meng, et al.(2010) A Proteomics Analysis of Rat Liver Membrane Skeletons: The Investigation of Actin- and Cytokeratin-Based Protein Components. <i>Journal of Proteome Research</i> , 9, 22–29
21212	$\beta$ -Catenin (Ab-37) Antibody	Chih-Kai Liao, Seu-Mei Wang, Yuh-Lien Chen, et al (2010) Lipopolysaccharide-induced inhibition of connexin43 gap junction

## Application References Summary

		communication in astrocytes is mediated by downregulation of caveolin-3. <i>The International Journal of Biochemistry &amp; Cell Biology</i> , In press
21213	EGFR(Ab-1172) Antibody	Bin Gui, Xiao Han, Yu Zhang, Jing Liang, Dandan Wang, et al (2012) Dimerization of ZIP promotes its transcriptional repressive function and biological activity. <i>The International Journal of Biochemistry &amp; Cell Biology</i> . 44 : 886– 895
21213	EGFR(Ab-1172) Antibody	Yang W, Zheng Y, Xia Y, Ji H, Chen X, Fang G, Lyssiotis C, Aldape K, Cantley L, and Lu Z. ERK1/2-dependent phosphorylation and nuclear translocation of PKM2 promotes the Warburg effect. <i>Nature Cell Biology</i> 14(12):1295-304, 2012. PMID: 23178880.
21220	Met (Ab-1234) Antibody	Na Li, Hanjiang Fu, Yi Tie, et al. (2008) miR-34a inhibits migration and invasion by down-regulation of c-Met expression in human hepatocellular carcinoma cells. <i>Cancer Letters</i> , 275(1):44-53
21220	Met(Ab-1234) Antibody	Luo W, Huang B, Li Z, Li H, Sun L, et al. (2013) MicroRNA-449a Is Downregulated in Non-Small Cell Lung Cancer and Inhibits Migration and Invasion by Targeting c-Met. <i>PLoS ONE</i> 8(5): e64759
21221	EGFR(Ab-1197) Antibody	Bin Gui, Xiao Han, Yu Zhang, Jing Liang, Dandan Wang, et al (2012) Dimerization of ZIP promotes its transcriptional repressive function and biological activity. <i>The International Journal of Biochemistry &amp; Cell Biology</i> . 44 : 886– 895
21223	IRS-1(Ab-636) Antibody	Daisuke Ekuni , Takaaki Tomofuji , Koichiro Irie, et al (2010) Effects of periodontitis on aortic insulin resistance in an obese rat model. <i>Laboratory Investigation</i> , doi:10.1038
21224	IRS-1(Ab-639) Antibody	Daisuke Ekuni , Takaaki Tomofuji , Koichiro Irie, et al (2010) Effects of periodontitis on aortic insulin resistance in an obese rat model. <i>Laboratory Investigation</i> , doi:10.1038
21228	IRS-1 (Ab-307) Antibody	Daisuke Ekuni , Takaaki Tomofuji , Koichiro Irie, et al (2010) Effects of periodontitis on aortic insulin resistance in an obese rat model. <i>Laboratory Investigation</i> , doi:10.1038
21232	c-Kit(Ab-721) Antibody	Shinka Miyamoto, Nanako Kawaguchi, Georgina M. Ellison, Rumiko Matsuoka, et al. (2010) Characterization of Long-Term Cultured c-kit+ Cardiac Stem Cells Derived From Adult Rat Hearts. <i>STEM CELLS AND DEVELOPMENT</i> . Volume 19, Number 1
21234	BRCA1(Ab-1423) Antibody	Bo Xiong, Sen Li, Jun-Shu Ai, et al. (2008) BRCA1 Is Required for Meiotic Spindle Assembly and Spindle Assembly Checkpoint Activation in Mouse Oocytes. <i>Biol Reprod</i> , 79, 718–726



## Application References Summary

21236	CDC2(Ab-15) Antibody	Qi Yao, Hui Li, Bing-Qian Liu, Xin-Yun Huang, et al. (2013) SUMOylation-regulated Protein Phosphorylation, Evidence from Quantitative Phosphoproteomics Analyses. THE JOURNAL OF BIOLOGICAL CHEMISTRY VOL. 286, NO. 31, pp. 27342–27349
21236	CDC2(Ab-15) Antibody	Philip M. KUBARA, Sophie KERN'EIS-GOLSTEYN, Aur'elie STUD'ENY, Brittany B. LANSER, et al. (2012) Human cells enter mitosis with damaged DNA after treatment with pharmacological concentrations of genotoxic agents. Biochem. J. 446:373–381
21239	HSP27(Ab-78) Antibody	Wenbo Ma <sup>1</sup> , Yan Teng <sup>1</sup> , Hui Hua, Jinlin Hou <sup>1</sup> , Ting Luo and Yangfu Jiang (2013) Upregulation of heat shock protein 27 confers resistance to actinomycin D-induced apoptosis in cancer cells. FEBS Journal. 10 :1-13
21240	HSP27(Ab-82) Antibody	Wenbo Ma <sup>1</sup> , Yan Teng <sup>1</sup> , Hui Hua, Jinlin Hou <sup>1</sup> , Ting Luo and Yangfu Jiang (2013) Upregulation of heat shock protein 27 confers resistance to actinomycin D-induced apoptosis in cancer cells. FEBS Journal. 10 :1-13
21241	SAPK/JNK(Ab-183) Antibody	Anastasia F. Thévenin, Chati L. Zony, Brian J. Bahnsen, Roberta F. Colman.(2011) Activation by phosphorylation and purification of human c-Jun N-terminal kinase (JNK) isoforms in milligram amounts. Protein Expression and Purification. 75: 138–146
21245	p38 MAPK (Ab-182) Antibody	Yi-Wen Gu, Dian-San Su, Jie Tian et al. (2008) <i>Neuroscience Letters</i> , 431(2):129-34. Attenuating phosphorylation of p38 MAPK in the activated microglia: A new mechanism for intrathecal lidocaine reversing tactile allodynia following chronic constriction injury in rats.
21245	p38 MAPK (Ab-182) Antibody	Diansan Su, Yang Gu, Zhenhong Wang, Xiangrui Wang (2010) Lidocaine Attenuates Proinflammatory Cytokine Production Induced by Extracellular Adenosine Triphosphate in Cultured Rat Microglia. <i>Anesthesia &amp; Analgesia</i> , 111 (3) 768-774
21249	Tau(Ab-212) Antibody	Ramiro E. Toribio, Holly A. Brown, Chad M. Novince, Brandlyn Marlow, et al.(2010) The midregion, nuclear localization sequence, and C terminus of PTHrP regulate skeletal development, hematopoiesis, and survival in mice. The FASEB Journal. Vol. 24 pp.1947-1957
21257	MARCKS (Ab-162) Antibody	Maria C. Olanas, Simona Dedoni, Pierluigi Onali (2011) Signaling pathways mediating phosphorylation and inactivation of glycogen synthase kinase-3 $\beta$ by the recombinant human $\delta$ -opioid receptor stably expressed in Chinese hamster ovary cells. <i>Neuropharmacology</i> , Volume 60, Issues 7-8, Pages 1326-1336
21260	Histone H2A.X (Ab-139) Antibody	Jennifer S. Dickey, Christophe E. Redon, Asako J. Nakamura, et al (2009) H2AX: functional roles and potential applications. <i>Chromosoma</i> 118:683–692

## Application References Summary

21260	Histone H2A.X(Ab-139) Antibody	Xiaohan Li, Takeshi Nishida, Akira Noguchi, et al (2010) Decreased nuclear expression and increased cytoplasmic expression of ING5 may be linked to tumorigenesis and progression in human head and neck squamous cell carcinoma, <i>Journal of Cancer Research and Clinical Oncology</i> , 136( 10), 1573-1583
21260	Histone H2A.X(Ab-139) Antibody	Xiao-han Li, Keiji Kikuchi, Yang Zheng, et al (2011) Downregulation and translocation of nuclear ING4 is correlated with tumorigenesis and progression of head and neck squamous cell carcinoma. <i>Oral Oncology</i> , Volume 47, Issue 3, March 2011, Pages 217-223
21260	Histone H2A.X(Ab-139) Antibody	Teng Li, Jing Hu, Gong-Hao He, Yun Li, Chu-Chao Zhu, et al (2012) Up-regulation of NDRG2 through nuclear factor-kappa B is required for Leydig cell apoptosis in both human and murine infertile testes. <i>Biochimica et Biophysica Acta</i> . 1822:301–313
21260	Histone H2A.X(Ab-139) Antibody	Yan Qing • Yanfang Liang • Qingqing Du • Pan Fan • Hangong Xu • Yiping Xu • Nian Shi, Apoptosis induced by Trimethyltin chloride in human neuroblastoma cells SY5Y is regulated by a balance and cross-talk between NF- $\kappa$ B and MAPKs signaling pathways, <i>Arch Toxicol</i> (2013) 87:1273–1285
21264	Cortactin(Ab-466) Antibody	Nobuo Terada, Nobuhiko Ohno, Sei Saitoh, et al (2009) Involvement of dynamin-2 in formation of discoid vesicles in urinary bladder umbrella cells. <i>Cell Tissue Res</i> : 337:91–102
21271	eIF2 $\alpha$ (Ab-51) Antibody	Hong-Li Wu, Yu-Hua Li, Yan-Hua Lin, et al. (2008) Salvianolic acid B protects human endothelial cells from oxidative stress damage: a possible protective role of glucose-regulated protein 78 induction. <i>Cardiovasc Res</i> , 81:148-158
21274	Integrin b3(Ab-785) Antibody	Ruifei Wang, Jiajia Bi, Khamal Kwesi Ampah, Chunmei Zhang, Ziyi Li, et al (2013) Lipid raft regulates the initial spreading of melanoma A375 cells by modulating $\beta$ 1 integrin clustering. <i>The International Journal of Biochemistry &amp; Cell Biology</i> . 45 1679– 1689
21278	$\alpha$ -Synuclein(Ab-136) Antibody	Shan-chuan Zhong • Xue Luo • Xing-shu Chen • Qi-yan Cai • Jing Liu • Xing-hua Chen • Zhong-xiang Yao, Expression and Subcellular Location of Alpha-Synuclein During Mouse-Embryonic Development, <i>Cell Mol Neurobiol</i> (2010) 30:469–482
21279	CaMKII (Ab-286) Antibody	J Bossuyt, K Helmstadter, X Wu, et al. (2008) Ca <sup>2+</sup> /Calmodulin-Dependent Protein Kinase II $\delta$ and Protein Kinase D Overexpression Reinforce. <i>Circulation Research</i> , 102(6):695-702.
21285	MARCKS(Ab-158) Antibody	Maria C. Olanas, Simona Dedoni, Pierluigi Onali (2011) Signaling pathways mediating phosphorylation and inactivation of glycogen synthase kinase-3 $\beta$ by the recombinant human $\delta$ -opioid receptor stably expressed in Chinese hamster ovary cells. <i>Neuropharmacology</i> . 60:1326-1336
21286	MEK1 (Ab-291) Antibody	Hanqian Xu, Gan Zhao, Xiaoxi Huang, et al (2010) CD40-expressing plasmid induces anti-CD40 antibody and enhances immune responses to DNA vaccination. <i>The Journal of Gene Medicine</i> . 12(1).97-106

## Application References Summary

21300	CREB(Ab-142) Antibody	Tomasz Boczek • Anna Kozaczuk • Bozena Ferenc •Michalina Kosiorek • Slawomir Pikula •Ludmila Zylinska, Gene expression pattern in PC12 cells with reduced PMCA2 or PMCA3 isoform: selective up-regulation of calmodulin and neuromodulin, Mol Cell Biochem (2012) 360:89–102
21302	IGF-1R(Ab-1280) Antibody	Hossein Haghiri, Abd-Al-Rahim Rezaee, Hossein Nomani, Mojtaba Sankian, et al.(2013) Sexual Dimorphism in Expression of Insulin and Insulin-Like Growth Factor-I Receptors in Developing Rat Cerebellum. Cell Mol Neurobiol. 33:369–377
21303	IGF-1R(Ab-1346) Antibody	Hossein Haghiri, Abd-Al-Rahim Rezaee, Hossein Nomani, Mojtaba Sankian, et al.(2013) Sexual Dimorphism in Expression of Insulin and Insulin-Like Growth Factor-I Receptors in Developing Rat Cerebellum. Cell Mol Neurobiol. 33:369–377
21310	GSK3b(Ab-216) Antibody	Ye Feng, Yiyuan Xia, Guang Yu, Xijing Shu, et al. (2013) Cleavage of GSK-3b by calpain counteracts the inhibitory effect of Ser9 phosphorylation on GSK-3b activity induced by H <sub>2</sub> O <sub>2</sub> . J. Neurochem. 126, 234--242
21319	SHP-2(Ab-542) Antibody	Xiangyang Yao, Fenfen Zhu, Zhihui Zhao, Chang Liu, et al. (2011) Arctigenin Enhances Chemosensitivity of Cancer Cells to Cisplatin Through Inhibition of the STAT3 Signaling Pathway. Journal of Cellular Biochemistry 112:2837–2849
21325	Smad3(Ab-425) Antibody	Mitsuko Moriguchi, Marie Yamada, Yasuo Miake and Mayu Koshika. (2012) Immunolocalization of Axin2 and p-Smad3 in Developing Rat Molar Germ.Journal of Hard Tissue Biology. 21[2] p.113 - 120
21328	TrkB(Ab-705) Antibody	Ning LI, Geng-tao LIU. (2010) The novel squamosamide derivative FLZ enhances BDNF/TrkB/CREB signaling and inhibits neuronal apoptosis in APP/PS1 mice. Acta Pharmacologica Sinica. 31: 265–272
21390	Myc Mouse Monoclnal Antibody	Yang W, Xia Y, Hawke D, Li X, Liang J, Aldape K, Hunter T, Yung WK, and Lu Z. PKM2 phosphorylates histone H3 and promotes gene transcription and tumorigenesis. Cell 150(4):685-696, 8/2012.
21390	Myc Mouse Monoclnal Antibody	Yang W, Zheng Y, Xia Y, Ji H, Chen X, Fang G, Lyssiotis C, Aldape K, Cantley L, and Lu Z. ERK1/2-dependent phosphorylation and nuclear translocation of PKM2 promotes the Warburg effect. Nature Cell Biology 14(12):1295-304, 2012. PMID: 23178880.
21401	Niban Antibody	Ji H, Ding Z, Hawake D, Jiang B, Mills G, Lu Z. AKT-dependent Phosphorylation of Niban Regulates Nucleophosmin- and MDM2-Mediated p53 Stability and Cell Apoptosis. EMBO Reports 13(6):554-60, 6/2012. PMID: 22510990.

## Application References Summary

21405	STAT3(Ab-705) Antibody	Libing Ma, Jinxiu Li, Guyi Wang, Subo Gong, et al.(2013) Atrial natriuretic peptide suppresses Th17 development through regulation of cGMP-dependent protein kinase and PI3K–Akt signaling pathways. <i>Regulatory Peptides</i> . 181:9–16
21420	Caspase3 Antibody	Shen J, et al., The use of hollow mesoporous silica nanospheres to encapsulate bortezomib and improve efficacy for non-small cell lung cancer therapy, <i>Biomaterials</i> (2013) Volume 35, Issue 1, January 2014, Pages 316–326
21488	Vimentin Antibody	Chuanxi Tian, Yifan Gong, Ying Yang, Wei Shen, et al.(2012) Foxg1 Has an Essential Role in Postnatal Development of the Dentate Gyrus. <i>The Journal of Neuroscience</i> , 32(9):2931–2949
21507	cofilin1/cofilin2(Ab-88) Antibody	Xiaodong Li, Qiang Ke, Yanshu Li, Funan Liu, Ge Zhu, Feng Li ,DGCR6L, a novel PAK4 interaction protein, regulates PAK4-mediated migration of human gastric cancer cell via LIMK1 , <i>The International Journal of Biochemistry&amp; Cell Biology</i> 42 (2010) 70–79 Contents lists
21508	PI3K a/g/b(Ab-467/199/464) P85 Antibody	Nan Li, Xiaodong Bu, Peng Wu, Pingping Wu, Peilin Huang (2012) The “HER2–PI3K/Akt–FASN Axis” Regulated Malignant Phenotype of Colorectal Cancer Cells. <i>Lipids</i> 47:403–411
21508	PI3K a/g/b(Ab-467/199/464) P85 Antibody	Nan Li, Heng Lu, Chunyan Chen, Xiaodong Bu, et al. (2013) Loss of fatty acid synthase inhibits the “HER2-PI3K/Akt axis” activity and malignant phenotype of Caco-2 cells <i>Lipids in Health and Disease</i> . 12:83
21517	HDAC4/HDAC5/HDAC9(Ab-246/259/220) Antibody	Weiyue Wang.(2010) A Novel Role of HDAC5 in Flow-Induced Gene Expression. Department of Pharmacology and Physiology School of Medicine and Dentistry University of Rochester Rochester
21538	Paxillin(Ab-88) Antibody	Ruifei Wang, Jiajia Bi, Khamal Kwesi Ampah, Chunmei Zhang, Ziyi Li,et al (2013) Lipid raft regulates the initial spreading of melanoma A375 cells bymodulating $\alpha 1$ integrin clustering. <i>The International Journal of Biochemistry &amp; Cell Biology</i> . 45 1679– 1689
21545	FAK(Ab-576/577) Antibody	Jun-shan RUAN, Yu-ping LIU1, Lei ZHANG1, Ling-geng YAN, et al. (2012) Luteolin reduces the invasive potential of malignant melanoma cells by targeting $\beta 3$ integrin and the epithelial-mesenchymal transition. <i>Acta Pharmacologica Sinica</i> . 33: 1325–1331
21550	MDM2(Ab-166) Antibody	Hetian Lei, Gisela Velez, and Andrius Kazlauskas. (2010) Pathological Signaling via Platelet-Derived Growth Factor Receptor Involves Chronic Activation of Akt and Suppression of p53. <i>MOLECULAR AND CELLULAR BIOLOGY</i> , May 2011, p. 1788–1799
21574	b-catenin Antibody	RONG WAN, RUI GUO, CHENG CHEN, LAI JIN,et al(2012) Urocortin Increased LPS-Induced Endothelial Permeability by Regulating the Cadherin–Catenin Complex via Corticotrophin-Releasing Hormone Receptor 2. <i>JOURNAL OF CELLULAR</i>

## Application References Summary

		PHYSIOLOGY. 228: 1295–1303
21574	b-catenin Antibody	Chih-Kai Liaoa, Seu-Mei Wangb, Yuh-Lien Chena, Hwai-Shi Wangb, Jiahn-Chun Wu, Lipopolysaccharide-induced inhibition of connexin43 gap junction communication in astrocytes is mediated by downregulation of caveolin-3, <i>The International Journal of Biochemistry &amp; Cell Biology</i> 42 (2010) 762–770
21577	PKM1 Antibody	Jiang et al., PKM2 Regulates Chromosome Segregation and Mitosis Progression of Tumor Cells, <i>Molecular Cell</i> (2014), <a href="http://dx.doi.org/10.1016/j.molcel.2013.11.001">http://dx.doi.org/10.1016/j.molcel.2013.11.001</a>
21577	PKM1 Antibody	Yang W, Xia Y, Hawke D, Li X, Liang J, Aldape K, Hunter T, Yung WK, and Lu Z. PKM2 phosphorylates histone H3 and promotes gene transcription and tumorigenesis. <i>Cell</i> 150(4):685-696, 8/2012.
21578	PKM2 Antibody	Jiang et al., PKM2 Regulates Chromosome Segregation and Mitosis Progression of Tumor Cells, <i>Molecular Cell</i> (2014), <a href="http://dx.doi.org/10.1016/j.molcel.2013.11.001">http://dx.doi.org/10.1016/j.molcel.2013.11.001</a>
21578	PKM2 Antibody	Yang W, Xia Y, Hawke D, Li X, Liang J, Aldape K, Hunter T, Yung WK, and Lu Z. PKM2 phosphorylates histone H3 and promotes gene transcription and tumorigenesis. <i>Cell</i> 150(4):685-696, 8/2012.
21578	PKM2 Antibody	Yang W, Zheng Y, Xia Y, Ji H, Chen X, Fang G, Lyssiotis C, Aldape K, Cantley L, and Lu Z. ERK1/2-dependent phosphorylation and nuclear translocation of PKM2 promotes the Warburg effect. <i>Nature Cell Biology</i> 14(12):1295-304, 2012. PMID: 23178880.
21689	Histone H3 (Ab-27) Antibody	MIN HUANG, JING ZHOU, LIQING BI, QIAN ZHANG, SUMING ZHOU (2012) Anti-Toll-like receptor 2 antibody, T2.1, reduces tumor necrosis factor $\alpha$ and interleukin-6 release and inhibits nuclear factor $\kappa$ B expression in bacterial lipoprotein stimulated THP-1 cells. <i>Centr Eur J Immunol.</i> 37 (1): 6-10
21689	Histone H3 (Ab-27) Antibody	Lian-Qing Sun, Jue Zha, Ting-Ting Zhang, Ling Qu, et al. (2012) Protective Effects of Salvianolic Acid B on Schwann Cells Apoptosis Induced by High Glucose. <i>Neurochem Res</i> 37:996–1010
21689	Histone H3 (Ab-27) Antibody	Lian-Qing Sun, Bing Xue, Xiao-Jin Li, Xuan Wang, Ling Qu, Ting-Ting Zhang, Jue Zhao, Bao-An Wang, Xiao-Man Zou, Yi-Ming Mu, Ju-Ming Lu, Inhibitory effects of Salvianolic acid B on apoptosis of Schwann cells and its mechanism induced by intermittent high glucose, <i>Life Sciences</i> 90 (2012) 99–108
22267	ZNF346 antibody	Yan Chen, Shen Yue, Lu Xie, Xiao-hong Pu, Tian Jin and Steven Y. Cheng, Dual Phosphorylation of Suppressor of Fused (Sufu) by PKA and GSK3 $\beta$ Regulates Its Stability and Localization in the Primary Cilium, <i>THE JOURNAL OF BIOLOGICAL CHEMISTRY</i> VOL. 286, NO. 15, pp. 13502–13511, April 15, 2011

## Application References Summary

22966	ADP-ribosylation factor 3 antibody	Jian-ye Zhang, Tao Yi, Jing Liu, Zhong-zhen Zhao, et al. (2013) Quercetin Induces Apoptosis via the Mitochondrial Pathway in KB and KBv200 Cells. <i>Journal of Agricultural and Food Chemistry</i> . 61:2188–2195
23220	STAT3 Antibody	Xiang Cheng, Jing Wang, Ni Xia, Xin-Xin Yan, et al. (2012) A guanidine-rich regulatory oligodeoxy-nucleotide improves type-2 diabetes in obese mice by blocking T-cell differentiation. <i>EMBO Mol Med</i> . 4:1112–1125
23630	EGFR Antibody	Frédéric Couture, François D'Anjou, Roxane Desjardins, François Boudreau and Robert Day, Role of Proprotein Convertases in Prostate Cancer Progression, <i>Neoplasia</i> (2012) 14, 1032–1042
24050	Caspase-9 Antibody	Jian-ye Zhang, Tao Yi, Jing Liu, Zhong-zhen Zhao, et al. (2013) Quercetin Induces Apoptosis via the Mitochondrial Pathway in KB and KBv200 Cells. <i>Journal of Agricultural and Food Chemistry</i> . 61:2188–2195
24250	Bax Antibody	Wei-Jun Pang, Yan Xiong, Zhao Zhang, Ning Wei, Ni Chen, Gong-she Yang (2013) Lentivirus-mediated Sirt1 shRNA and resveratrol independently induce porcine preadipocyte apoptosis by canonical apoptotic pathway. <i>Mol Biol Rep</i> . 40:129–139
24313	4E-BP1 Antibody	Manujendra N. Saha <sup>1,2</sup> , Hua Jiang <sup>3</sup> , Yijun Yang <sup>1,2</sup> , Xiaoyun Zhu <sup>1,2</sup> , Xiaoming Wang <sup>4</sup> , Aaron D. Schimmer <sup>4</sup> , Lugui Qiu <sup>5</sup> , Hong Chang, Targeting p53 via JNK Pathway: A Novel Role of RITA for Apoptotic Signaling in Multiple Myeloma, January 2012   Volume 7   Issue 1   e30215
24317	anti-Irs1	Daisuke Ekuni, Takaaki Tomofuji, Koichiro Irie, Kenta Kasuyama, Michihiro Umakoshi, Tetsuji Azuma, Naofumi Tamaki, Toshihiro Sanbe, Yasumasa Endo, Tatsuo Yamamoto, Takashi Nishida and Manabu Morita, Effects of periodontitis on aortic insulin resistance in an obese rat model, <i>Laboratory Investigation</i> (2010) 90, 348–359
24458	PKR Antibody	Suzette Laing, <sup>1*</sup> Guohui Wang, <sup>1*</sup> Tamara Briazova, <sup>1</sup> Chunbin Zhang, <sup>1</sup> Aixia Wang, <sup>5</sup> Ze Zheng, <sup>1</sup> Alexander Gow, <sup>1,3,4</sup> Alex F. Chen, <sup>8</sup> Sanjay Rajagopalan, <sup>5</sup> Lung Chi Chen, <sup>7</sup> Qinghua Sun, <sup>5,6§</sup> and Kezhong Zhang <sup>1,2</sup> , Airborne particulate matter selectively activates endoplasmic reticulum stress response in the lung and liver tissues, <i>Am J Physiol Cell Physiol</i> 299: C736–C749, 2010.
24534	Bub3 Antibody	Jiang et al., PKM2 Regulates Chromosome Segregation and Mitosis Progression of Tumor Cells, <i>Molecular Cell</i> (2014), <a href="http://dx.doi.org/10.1016/j.molcel.2013.11.001">http://dx.doi.org/10.1016/j.molcel.2013.11.001</a>
25541	β-catenin Antibody	Lei Hana, Yang Yanga, Xiao Yuea, Kai Huang, et al. (2010) Inactivation of PI3K/AKT signaling inhibits glioma cell growth through modulation of β-catenin-mediated transcription. <i>BRAIN RESEARCH</i> 1366:9–17

## Application References Summary

29022	TNF alpha antibody	Desong Kong, Feng Zhang, Donghua Wei, Xiaojing Zhu, et al.(2013) Paeonol inhibits hepatic fibrogenesis via disrupting nuclear factor-kB pathway in activated stellate cells: In vivo and in vitro studies. Journal of Gastroenterology and Hepatology. 28:1223–1233
29101	Caspase 3 Antibody	Jian-ye Zhang, Tao Yi, Jing Liu, Zhong-zhen Zhao, et al. (2013) Quercetin Induces Apoptosis via the Mitochondrial Pathway in KB and KBv200 Cells. Journal of Agricultural and Food Chemistry. 61:2188–2195
29139	MAVS Antibody	Wang B, Xi X, Lei X, Zhang X, Cui S, et al. (2013) Enterovirus 71 Protease 2Apro Targets MAVS to Inhibit Anti-Viral Type I Interferon Responses. PLoS Pathog 9(3): e1003231. doi:10.1371/journal.ppat.1003231
29162	ERK1/2	Yinbo Niu, Yuhua Li, Haitao Huang, Xianghe Kong, et al. (2011) Asperosaponin VI, A Saponin Component from Dipsacus asper Wall, induces Osteoblast Differentiation through Bone Morphogenetic Protein - 2/p38 and Extracellular Signal - regulated Kinase 1/2 Pathway. Phytother. Res. 25: 1700–1706
29162	ERK1/2 Antibody	Zhifeng Wei, <sup>1</sup> Jian Yang, <sup>1</sup> Yu-Feng Xia, <sup>1</sup> Wen-Zhe Huang, <sup>2</sup> Zheng-Tao Wang, <sup>2</sup> and Yue Dai, Cardamonin Protects Septic Mice from Acute Lung Injury by Preventing Endothelial Barrier Dysfunction, J BIOCHEM MOLECULAR TOXICOLOGY, Volume 26, Number 7, 2012
29227	PLC gamma 1 Antibody	Cheng-Ying Hsieh, Chien-Liang Liu, Ming-Jen Hsu, Thanasekaran Jayakumar, et al. (2010) Inhibition of vascular smooth muscle cell proliferation by the vitamin E derivative pentamethylhydroxychromane in an in vitro and in vivo study: pivotal role of hydroxyl radical-mediated PLCγ1 and JAK2 phosphorylation. Free Radical Biology & Medicine. 49:881–893
51041	NF-kB p65(Phospho-Ser536) antibody blocking peptide	KEFENG WU, YI LIU <sup>1</sup> , YINGNIAN LV, LIAO CUI, et al. (2013) Ent-11α-hydroxy-15-oxo-kaur-16-en-19-oic-acid induces apoptosis and cell cycle arrest in CNE-2Z nasopharyngeal carcinoma cells. ONCOLOGY REPORTS. 29: 2101-2108
51080	EGFR(Phospho-Ser1070) antibody blocking peptide	Frédéric Couture, François D'Anjou, Roxane Desjardins, François Boudreau and Robert Day, Role of Proprotein Convertases in Prostate Cancer Progression, Neoplasia (2012) 14, 1032–1042
51111	Tau(Phospho-Ser262) antibody blocking peptide	J. BERTRAND, V. PLOUFFE, P. SÉNÉCHAL AND N. LECLERC, THE PATTERN OF HUMAN TAU PHOSPHORYLATION IS THE RESULT OF PRIMING AND FEEDBACK EVENTS IN PRIMARY HIPPOCAMPAL NEURONS, Neuroscience 168 (2010) 323–334
51136	FKHR(Phospho-Ser319) antibody blocking peptide	Tomoko Kanao, Katerina Venderova, David S. Park, Terry Unterman, et al.(2010) Activation of FoxO by LRRK2 induces expression of proapoptotic proteins and alters survival of postmitotic dopaminergic neuron in Drosophila. Human Molecular Genetics, Vol. 19, No. 19 3747–3758

## Application References Summary

51136	FKHR(Phospho-Ser319) antibody blocking peptide	Kanao T, Sawada T, Davies S-A, Ichinose H, Hasegawa K, et al. (2012) The Nitric Oxide-Cyclic GMP Pathway Regulates FoxO and Alters Dopaminergic Neuron Survival in Drosophila. PLoS ONE 7(2): e30958. doi:10.1371/journal.pone.0030958
51174	AMPK1/AMPK2(Phospho-Ser485/Ser491) antibody blocking peptide	Sheng-Yang Jiang, Ming Xu, Xiao-Wei Ma, Han Xiao, et al.(2010) A distinct AMP-activated protein kinase phosphorylation site characterizes cardiac hypertrophy induced by L-thyroxine and angiotensin II. Clinical and Experimental Pharmacology and Physiology. 37:919–925
51193	HDAC5(Phospho-Ser498) antibody blocking peptide	Sheng Xia, Xiaogang Li, Teri Johnson, Chris Seidel, Darren P. Wallace, and Rong Li (2010) Polycystin-dependent fluid flow sensing targets histone deacetylase 5 to prevent the development of renal cysts. Development. Volume 137, Pages 1075-1084
51221	mTOR(Phospho-Ser2448) antibody blocking peptide	MM Sun, MZ Zhang, Y Chen, SL Li, W Zhang, GW Ya and KS Chen, Mechanistic Target of pamycin Small Interfering RNA and Rapamycin Synergistically Inhibit Tumour Growth in a Mouse enograft Model of Human Oesophageal Carcinoma, The Journal of International Medical Research 2012; 40: 1636 – 1643
11174	anti-phospho-AMPK $\alpha$ 1 (phospho-Ser487)	Yan-Na Huang, Jian-Hua Qi, Lan Xiang, Yi-Zhen Wang (2012) Construction of adiponectin-encoding plasmid DNA and overexpression in mice in vivo. Gene 502 (2012) 87–93
I4001	Rabbit IgG	Jing Qian, Chunyan Zhang, Xiaodong Cao, et al (2010) Versatile Immunosensor Using a Quantum Dot Coated Silica Nanosphere as a Label for Signal Amplification. <i>Analytical Chemistry</i> , 82 (15), 6422–6429
I4001	Rabbit IgG	Hongyan Shi, Liang Yuan, Yafeng Wu, Songqin Liu (2011) Colorimetric immunosensing via protein functionalized gold nanoparticle probe combined with atom transfer radical polymerization. <i>Biosensors and Bioelectronics</i> , Volume 26, Issue 9, Pages 3788-3793
I4001	Rabbit IgG	Jing Qian, Haichao Dai, Xiaohu Pan, Songqin Liu, et al (2011) Simultaneous detection of dual proteins using quantum dots coated silica nanoparticles as labels. <i>Biosensors and Bioelectronics</i> , Volume 28, Issue 1, Pages 314-319
L3011	Goat anti-Rabbit IgG Secondary antibody unconjugated	Hongyan Shi, Liang Yuan, Yafeng Wu, Songqin Liu (2011) Colorimetric immunosensing via protein functionalized gold nanoparticle probe combined with atom transfer radical polymerization. <i>Biosensors and Bioelectronics</i> , Volume 26, Issue 9, Pages 3788-3793
L3011	Goat anti-Rabbit IgG Secondary antibody unconjugated	Jing Qian, Haichao Dai, Xiaohu Pan, Songqin Liu, et al (2011) Simultaneous detection of dual proteins using quantum dots coated silica nanoparticles as labels. <i>Biosensors and Bioelectronics</i> , Volume 28, Issue 1, Pages 314-319



## Application References Summary

L3011	Goat anti-Rabbit IgG Secondary Antibody Unconjugated	Jing Qian, Chunyan Zhang, Xiaodong Cao, and Songqin Liu. (2010) Versatile Immunosensor Using a Quantum Dot Coated Silica Nanosphere as a Label for Signal Amplification. <i>Anal. Chem.</i> 82:6422–6429
L3011	Goat anti-Rabbit IgG Secondary Antibody Unconjugated	Liang Yuan, Yafeng Wu, Hongyan Shi, and Songqin Liu. (2011) Surface-Initiated Atom-Transfer Radical Polymerization of 4-AcetoxyACHTUNGSTREUNUNGstyrene for Immunosensing. <i>Chem. Eur. J.</i> 17:976–983
L3012	Goat anti-Rabbit IgG Secondary antibody HRP conjugated	Hanqian Xu, Gan Zhao, Xiaoxi Huang, et al (2010) CD40-expressing plasmid induces anti-CD40 antibody and enhances immune responses to DNA vaccination. <i>The Journal of Gene Medicine.</i> 12(1).97-106
L3012	Goat anti-Rabbit IgG Secondary antibody HRP conjugated	Jing Qian, Chunyan Zhang, Xiaodong Cao, et al (2010) Versatile Immunosensor Using a Quantum Dot Coated Silica Nanosphere as a Label for Signal Amplification. <i>Analytical Chemistry</i> , 82 (15), 6422–6429
L3012	Goat anti-Rabbit IgG Secondary Antibody HRP conjugated	Yonggen Jia, Xinxin Zhao, Jingru Zou, Xun Suo. (2011) Trypanosoma evansi: Identification and characterization of a variant surface glycoprotein lacking cysteine residues in its C-terminal domain. <i>Experimental Parasitology</i> 127:100–106
L3012	Goat anti-Rabbit IgG Secondary Antibody HRP conjugated	Yudong Liu, Ying Su, Shenggang Sun, Tao Wang, et al. (2012) Tau Phosphorylation and m-Calpain Activation Mediate the Dexamethasone-Induced Inhibition on the Insulin-Stimulated Akt Phosphorylation. <i>PLoS ONE</i> 7(4): e35783. doi:10.1371/journal.pone.0035783
L3012	Goat anti-Rabbit IgG Secondary Antibody HRP conjugated	YONG CHENG, LI-YOU AN, YU-GUO YUAN, YI WANG, et al. (2012) Hybrid Expression Cassettes Consisting of a Milk Protein Promoter and a Cytomegalovirus Enhancer Significantly Increase Mammary-Specific Expression of Human Lactoferrin in Transgenic Mice. <i>Molecular Reproduction &amp; Development</i> 79:573–585
L3012	Goat anti-Rabbit IgG Secondary Antibody HRP conjugated	Saito S, Yamamoto H, Mukaisho K-i, Sato S, Higo T, et al. (2013) Mechanisms Underlying Cancer Progression Caused by Ezrin Overexpression in Tongue Squamous Cell Carcinoma. <i>PLoS ONE</i> 8(1): e54881. doi:10.1371/journal.pone.0054881
L3012	Goat anti-Rabbit IgG Secondary Antibody HRP conjugated	Ing-Chien Chen, za Chung-Ming Yu, za Yu-Ching Lee, a Yi-Jen Huang, ab Hung-Ju Hsuac and An-Suei Yang, Signal sequence as a determinant in expressing disulfide-stabilized single chain antibody variable fragments (sc-dsFv) against human VEGF, <i>Mol. BioSyst.</i> , 2010, 6, 1307–1315   1307
L3032	Goat anti-Mouse IgG Secondary Antibody HRP conjugated	Lei Wu, Ya-nan Jiang, Qian Tang, Hui-xing Lin, et al. (2012) Development of an <i>Aeromonas hydrophila</i> recombinant extracellular protease vaccine. <i>Microbial Pathogenesis.</i> 53:183-188

## Application References Summary

L3032	Goat anti-Mouse IgG Secondary Antibody HRP conjugated	Jossimara Poletti a,*, Eliane Passarelli Vieira a, Mariana Perlati dos Santos a, Jose´ Carlos Peracoli b, Steven S. Witkin c, Ma´rcia Guimaraes da Silva, Interleukin 18 messenger RNA and proIL-18 protein expression in chorioamniotic membranes from pregnant women with preterm prelabor rupture of membranes, <i>European Journal of Obstetrics &amp; Gynecology and Reproductive Biology</i> 161 (2012) 134–139
L3041	Rabbit anti-Goat IgG Secondary antibody unconjugated	Jing Qian, Chengquan Wang, Xiaohu Pan, Songqin Liu (2013) A high-throughput homogeneous immunoassay based on Förster resonance energy transfer between quantum dots and gold nanoparticles. <i>Analytica Chimica Acta</i> . 763:43–49
L3042	Rabbit anti-Goat IgG HRP conjugated	Hongyan Shi, Liang Yuan, Yafeng Wu, Songqin Liu, Colorimetric immunosensing via protein functionalized gold nanoparticle probe combined with atom transfer radical polymerization, <i>Biosensors and Bioelectronics</i> 26 (2011) 3788–3793
L3042	Rabbit anti-Goat IgG HRP conjugated	Gyula Acsadi & Xingli Li & Kelley J. Murphy & Kathryn J. Swoboda & Graham C. Parker, Alpha-Synuclein Loss in Spinal Muscular Atrophy, <i>J Mol Neurosci</i> (2011) 43:275–283
L3051	Rabbit anti-Human IgG Secondary antibody unconjugated	Jing Qian, Chengquan Wang, Xiaohu Pan, Songqin Liu (2013) A high-throughput homogeneous immunoassay based on Förster resonance energy transfer between quantum dots and gold nanoparticles. <i>Analytica Chimica Acta</i> . 763:43–49
L3052	Rabbit anti-Human IgG secondary antibody HRP-conjugated	Loris Riccardo Lopetuso a, Valentina Petito a, Valerio Cufinob, Vincenzo Arenab, Egidio Stigliano b, Viviana Gerardia, Eleonora Gaetania, Andrea Posciad, Arianna Amato c, Giovanni Cammarotaa, Alfredo Papaa, Alessandro Sgambato b, Antonio Gasbarrinia, Franco Scaldaferrid, Locally injected Infliximab ameliorates murine DSS colitis: Differences in serum and intestinal levels of drug between healthy and colitic mice, <i>L.R. Lopetuso et al. / Digestive and Liver Disease</i> xxx (2013) xxx–xxx
T501	HA-Tag Rabbit Polyclonal Antibody	Yuan Qiu, Yan Ding, Lingyun Zou, Zhangping Tan, et al (2013) Divergent Roles of Amino Acid Residues Inside and Outside the BB Loop Affect Human Toll-Like Receptor (TLR)2/2, TLR2/1 and TLR2/6 Responsiveness. <i>PLoS ONE</i> 8(4): e61508. doi:10.1371/journal.pone.0061508
T501	HA-Tag Rabbit Polyclonal Antibody	Sai Srinivas Panapakkam Giridharan, Bishuang Cai, Nicolas Vitale, Naava Naslavsky, et al. (2013) Cooperation of MICAL-L1, syndapin2, and phosphatidic acid in tubular recycling endosome biogenesis. <i>Molecular Biology of the Cell</i> . Volume 24:1776-1790
T501	HA-Tag Rabbit Polyclonal Antibody	Haitao Ji, Zhiyong Ding, David Hawke, Dongming Xing, et al. (2012) AKT-dependent phosphorylation of Niban regulates nucleophosmin- and MDM2-mediated p53 stability and cell apoptosis. <i>EUROPEAN MOLECULAR BIOLOGY ORGANIZATION</i> . VOL 13 NO 6:554-560

## Application References Summary

T501	HA-Tag Rabbit Polyclonal Antibody	Ji H, Ding Z, Hawake D, Jiang B, Mills G, Lu Z. AKT-dependent Phosphorylation of Niban Regulates Nucleophosmin- and MDM2-Mediated p53 Stability and Cell Apoptosis. EMBO Reports 13(6):554-60, 6/2012. PMID: 22510990.
T502	HA-Tag Mouse Monoclonal Antibody	Ji H, Ding Z, Hawake D, Jiang B, Mills G, Lu Z. AKT-dependent Phosphorylation of Niban Regulates Nucleophosmin- and MDM2-Mediated p53 Stability and Cell Apoptosis. EMBO Reports 13(6):554-60, 6/2012. PMID: 22510990.
T503	polyclonal tag DYKDDDDK	Juliette Gafni, Xin Cong, Sylvia F. Chen, et al.(2009) Calpain-1 Cleaves and Activates Caspase-7J. Biol. Chem., 284: 25441 - 25449.
T503	DYKDDDDK-Tag Rabbit Polyclonal Antibody	Wang Jian, Zou Ning, Pan Xuwen, Liu Sidang.Establishment of a Cell Line with Stable Expression of HLA-A33 Protein[J].Biotechnology Bulletin, (2011) 11:212-215
T507	GFP-Tag mouse mAb	Qianqian Li, Hongbin Zhang, Cui Tan, Weiyang Peng, et al. (2013) AdHu5-apoptin induces G2/M arrest and apoptosis in p53-mutated human gastric cancer SGC-7901 cells. Tumor Biol.DOI 10.1007/s13277-013-0936-3



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