NFkB-p65 Antibody

Catalog No: #21014

Package Size: #21014-1 50ul #21014-2 100ul



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

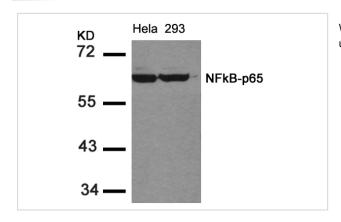
_		4.5
	escri	ntion
$\boldsymbol{\nu}$	COUL	Puon

Product Name	NFkB-p65 Antibody	
Host Species	Rabbit	
Clonality	Polyclonal	
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were	
	purified by affinity-chromatography using epitope-specific peptide.	
Applications	WB;IHC;IF	
Species Reactivity	Human;Mouse;Rat	
Specificity	The antibody detects endogenous level of total NFkB-p65 protein.	
Immunogen Type	Peptide-KLH	
Immunogen Description	Peptide sequence around aa.534~538 (F-S-S-I-A) derived from Human NFkB-p65.	
Conjugates	Unconjugated	
Target Name	NFkB-p65	
Other Names	NFKB3; RELA; TF65; Transcription factor p65; p65	
Accession No.	Swiss-Prot: Q04206NCBI Protein: NP_001138610.1	
Concentration	1.0mg/ml	
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02%	
	sodium azide and 50% glycerol.	
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.	

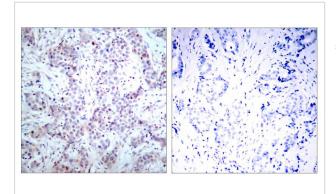
Application Details

WB 1:500-1:2000; IHC 1:100-1:300; IF 1:50-1:500;

Images



Western blot analysis of extracts from Hela and 293 cells using NFkB-p65(Ab-536) Antibody #21014.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using NFkB-p65(Ab-536) Antibody #21014(left) or the same antibody preincubated with blocking peptide(right).

Background

NF-kappa-B is a pleiotropic transcription factor which is present in almost all cell types and is involved in many biological processed such as inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. NF-kappa-B is a homo- or heterodimeric complex formed by the Rel-like domain-containing proteins RELA/p65, RELB, NFKB1/p105, NFKB1/p50, REL and NFKB2/p52 and the heterodimeric p65-p50 complex appears to be most abundant one. The dimers bind at kappa-B sites in the DNA of their target genes and the individual dimers have distinct preferences for different kappa-B sites that they can bind with distinguishable affinity and specificity. Different dimer combinations act as transcriptional activators or repressors, respectively. NF-kappa-B is controlled by various mechanisms of post-translational modification and subcellular compartmentalization as well as by interactions with other cofactors or corepressors. NF-kappa-B complexes are held in the cytoplasm in an inactive state complexed with members of the NF-kappa-B inhibitor (I-kappa-B) family. In a conventional activation pathway, I-kappa-B is phosphorylated by I-kappa-B kinases (IKKs) in response to different activators, subsequently degraded thus liberating the active NF-kappa-B complex which translocates to the nucleus. NF-kappa-B heterodimeric p65-p50 and p65-c-Rel complexes are transcriptional activators. The NF-kappa-B p65-p65 complex appears to be involved in invasin-mediated activation of IL-8 expression. The inhibitory effect of I-kappa-B upon NF-kappa-B the cytoplasm is exerted primarily through the interaction with p65. p65 shows a weak DNA-binding site which could contribute directly to DNA binding in the NF-kappa-B complex

Doyle S L, et al. (2005) J Biol Chem. 280(25): 23496-23501.

Anwar K N, et al. (2004) J Immunol. 173(11): 6965-6972.

Baeuerle P A, et al. (1994) Annu Rev Immunol. 12:141-179.

Baeuerle P A, et al. (1996) Cell 87:13-20.

Haskill S, et al. (1991) Cell 65:1281-1289.

Published Papers

Naina Shah, Dipok Dhar, Fatma El Zahraa Mohammed1 el at., Prevention of acute kidney injury in a rodent model of cirrhosis following selective gut decontamination is associated with reduced renal TLR4 expression., Journal of Hepatology., 56:1047η— C1053(2012)

PMID:22266601

el at., Artemether Activation of AMPK/GSK3β(ser9)/Nrf2 SignalIng Confers Neuroprotection towards β-Amyloid-Induced Neurotoxicity In 3xTg Alzheimer's Mouse Model. In Oxid Med Cell Longev on 2019 Nov 21 by Li S, Zhao X, et al..PMID:31871541, , (2019)

PMID:31871541

el at., CYP4A11 is involved in the development of nonalcoholic fatty liver disease via ROS?induced lipid peroxidation and inflammation.In Int J Mol Med on 2020 Apr by Gao H, Cao Y, et al..PMID:32124935, , (2020)

PMID:32124935

el at., Phytoestrogens protect joints in collagen induced arthritis by increasing IgG glycosylation and reducing osteoclast activation.In Int Immunopharmacol on 2020 Mar 12 by Du N, Song L, et al..PMID:32172207, , (2020)

PMID:32172207

el at., Exendin-4 directly improves endothelial dysfunction in isolated aortas from obese rats through the cAMP or AMPK-eNOS pathways.In Diabetes Res Clin Pract on 2012 Sep by Han L, Yu Y,et al..PMID:22560150, , (2012)

PMID:22560150

el at., Dietary Oxidized n-3 PUFA Induce Oxidative Stress and Inflammation: Role of Intestinal Absorption of 4-HHE and Reactivity in Intestinal Cells.In J Lipid Res on 2012 Oct by Manar Awada, Christophe O Soulage, et al..PMID:22865918, , (2012)

PMID:22865918

el at., Role of tollι ζ• ike receptor 4 in mediating multiorgan dysfunction in mice with acetaminophen induced acute liver failure. In Liver Transpl on 2013 Jul by Maria Jover-Cobos, Ken-Ichi Tanamoto, et al..PMID:23554142

, , (2013)

PMID:23554142

el at., Arctigenin suppresses renal interstitial fibrosis in a rat model of obstructive nephropathy. In Phytomedicine on 2017 Jul 1 by Ao Li , Xiaoxun Zhang, et al.. PMID: 28545667, (2017)

PMID:28545667

el at., Endoplasmic reticulum stress participates in inflammationι ζ• ccelerated, lipidι ζ• ediated injury of human glomerular mesangial cells.In Nephrology (Carlton) on 2017 Mar by Haiping Yang, Jingjing Cui,et al..PMID: 26890338, , (2017)

PMID:26890338

el at., Pteisolic acid G, a novel enti ζ Ωaurane diterpenoid, inhibits viability and induces apoptosis in human colorectal carcinoma cells.In Oncol Lett on 2017 Nov by Shuangli Qiu ,Xin Wu,et al..PMID: 29113182, , (2017)

PMID:29113182

el at., Neonatal chlorpyrifos exposure induces loss of dopaminergic neurons in young adult rats.In Toxicology on 2015 Oct 2 by Jie Zhang , Hongmei Dai et al..PMID: 26215101, , (2015)

PMID:26215101

el at., Spautin-1 ameliorates acute pancreatitis via inhibiting impaired autophagy and alleviating calcium overload. In Mol Med on 2016 Oct by Juan Xiao, Xueping Feng et al.. PMID: 27579473, (2016)

PMID:27579473

el at., Protodioscin ameliorates fructose-induced renal injury via inhibition of the mitogen activated protein kinase pathway.In Phytomedicine on 2016 Nov 15 by Jinyang Shen, Xiaolin Yang et al..PMID:27765371, , (2016)

PMID:27765371

el at., Loranthus Micranthus Extracts Suppress the Expression and Enzymatic Activity of Indoleamine 2, 3-Dioxygenase in Human Breast Cancer Cells via the Inhibition of JAK/STAT and NF-kB Pathways, , (2020)

PMID:

el at., 5-HT2A Receptor and 5-HT Degradation Play a Crucial Role in Atherosclerosis by Modulating Macrophage Foam Cell Formation, Vascular Endothelial Cell Inflammation, and Hepatic Steatosis. In J Atheroscler Thromb on 2021 Feb 2 by Yingying Ma, Xiurui Liang, et al.. PMID: 33536397, , (2021)

PMID:33536397

el at., Alpha-lipoic acid alleviates NAFLD and triglyceride accumulation in liver via modulating hepatic NLRP3 inflammasome activation pathway in type 2 diabetic rats. In Food Sci Nutr on 2021 Mar 13 by Chih-Yuan Ko, Yangming Martin Lo, et al..PMID: 34026086, , (2021)

PMID:34026086

el at., The A-to-I editing of KPC1 promotes intrahepatic cholangiocarcinoma by attenuating proteasomal processing of NF-κB1 p105 to p50. In J Exp Clin Cancer Res

on 2022 Dec 8 by Chengming Gao, Guangming Zhou, et al..PMID:36476255, , (2022)

PMID:36476255

el at., Differential apoptosis gene expressions of rhabdomyosarcoma cells in response to enterovirus 71 infection. In BMC Infect Dis on 2012 Nov 28 by Shi W, Li X,et al.. PMID: 23191987, (2012)

PMID:23191987

Sijing Liu; Kai Li; Changhai Long; Mingwu Lao; Biao Ma; Changquan Liu; Haoyuan He; Chunjiang Wang; Wangzhu Chen; Bin Yu el at., The role of FTO in

m6A RNA methylation and immune regulation in Staphylococcus aureus infection-related osteomyelitis.,, (2025)

PMID:39980685

el at., Tiagabine protects dopaminergic neurons against neurotoxins by inhibiting microglial activation. In Sci Rep on 2015 Oct 26 by Jie Liu, Dongping Huang et al.. PMID: 26499517, (2015)

PMID:26499517

S. Clockaerts, Y.M. Bastiaansen-Jenniskens, C. Feijt el at., Peroxisome proliferator activated receptor alpha activation decreases inflammatory and destructive responses in osteoarthritic cartilage., Osteoarthritis and Cartilage, 19(7):895-902(2011)

PMID:21458577

Gerben M. van Buul, Wendy L.M. Koevoet, Nicole Kops el at., Platelet-Rich Plasma Releasate Inhibits Inflammatory Processes in Osteoarthritic Chondrocytes., Am J Sports Med., 39: 2362-2370(2011)

PMID:21856929

el at., Pre-treatment of Human Umbilical Cord-Derived Mesenchymal Stem Cells With interleukin-6 Abolishes Their Growth-Promoting Effect on Gastric Cancer Cells.In Int J Mol Med on 2015 Feb by Mei Wang, Jie Cai et al..PMID:25483835, (2015)

PMID:25483835

el at., Cinnamaldehyde Inhibits Inflammation of Human Synoviocyte Cells Through Regulation of Jak/Stat Pathway and Ameliorates Collagen-Induced Arthritis in Rats. In J Pharmacol Exp Ther on 2020 May by Wen-Xiang Cheng, Shan Zhong, et al..PMID: 32029577, , (2020)

PMID:32029577

el at., Visfatin Induces the Apoptosis of Endothelial Progenitor Cells via the Induction of Pro-Inflammatory Mediators Through the NF-I-• B Pathway.Int J Mol Med on 2017 Sep by Lina Sun , Shuchun Chen et al..PMID: 28677720, , (2017)

PMID:28677720

el at., Shortı ζ• 'erm MyD88 inhibition ameliorates cardiac graft rejection and promotes donorı ζ• pecific hyporesponsiveness of skin grafts in mice.In Transpl Int on 2016 Aug by Wen-Tao He, Li-Min Zhang et al..PMID: 27125343, , (2016)

PMID:27125343

Jing Guan;Xin Tong;Yi Zhang;Fan Xu;Yuxin Zhang;Xiurui Liang;Jiaqi Jin;Hongyan Jing;Liuxian Guo;Xinrui Ni;Jihua Fu el at., Nephrotoxicity induced by cisplatin is primarily due to the activation of the 5-hydroxytryptamine degradation system in proximal renal tubules, , (2021)

PMID:

Note: This product is for in vitro research use only and is not intended for use in humans or animals.