

β-Actin Mouse Monoclonal Antibody

Catalog No: #21800



Package Size: #21800-1 50ul #21800-2 100ul

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Description

Product Name	β-Actin Mouse Monoclonal Antibody
Host Species	Mouse
Clonality	Monoclonal
Applications	WB IHC IF
Species Reactivity	Hu Rt Ms Mk D ChHm Rb
Immunogen Type	Recombinant Protein
Immunogen Description	Full-length β-Actin protein of human
Target Name	β-Actin
Other Names	ACTB; actin, beta; Actin, cytoplasmic 1; Actin, cytoplasmic 1, N-terminally processed; beta actin; beta cytoskeletal actin; Beta-actin; PS1TP5-binding protein 1; PS1TP5BP1
SDS-PAGE MW	43KD
Concentration	1.0mg/ml
Formulation	Mouse IgG1 in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

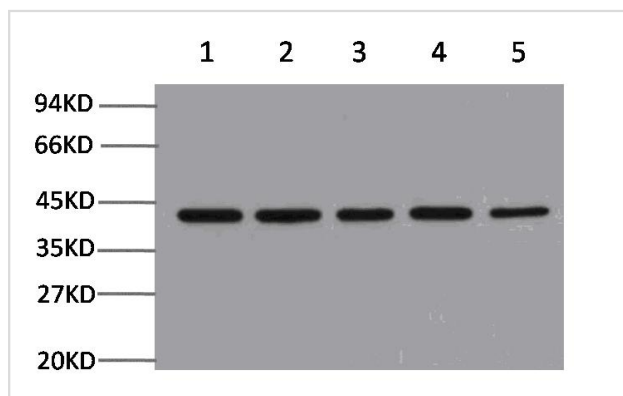
Application Details

Western blotting: 1:3000-1:10000

Immunohistochemistry: 1:200

Immunofluorescence: 1:200

Images



Western blot analysis of Hela (1), Rat brain (2), Mouse brain (3), Chicken lung (4) and Rabbit testis (5) with β-Actin mouse mAb.

Background

β-Actin is one of six different actin isoforms that have been identified. The actin molecules found in cells of various species and tissues tend to be very similar in their immunological and physical properties. Therefore, Antibodies against β-Actin are useful as loading controls for Western Blotting.

However it should be noted that levels of β-Actin may not be stable in certain cells. For example, expression of β-Actin in adipose tissue is very low

and therefore it should not be used as loading control for these tissues.

Published Papers

el at., The AMPK-dependent inhibition of autophagy plays a crucial role in protecting photoreceptor from photooxidative injury In J Photochem Photobiol B On2023 AugbyYu-Lin Li , Tian-Zi Zhang et al..PMID:37302163, , (2023)

[PMID:37302157](#)

el at., Promotion of axon regeneration and protection on injured retinal ganglion cells by rCXCL2InInflamm RegenOn 2023 Jun 20byZi-Yuan Zhang, Zhao-Yang Zuo et al..PMID:37340465, , (2023)

[PMID:37340465](#)

el at., Small molecule inhibitor CRT0066101 inhibits cytokine storm syndrome in a mouse model of lung injury In Int ImmunopharmacolOn2023 JulbyBomiao Cui , Yiyang Liu et al..PMID:37182445, , (2023)

[PMID:37182445](#)

el at., Tissue Kallikrein Protects Rat Prostate against the Inflammatory Damage in a Chronic Autoimmune Prostatitis Model via Restoring Endothelial Function in a Bradykinin Receptor B2-Dependent Way. In Oxid Med Cell Longev on 2022 Feb 1 by Mengyang Zhang, Dongxu Lin,et al..PMID:35154561, , (2022)

[PMID:35154561](#)

el at., DDAH1 Protects against Acetaminophen-Induced Liver Hepatotoxicity in Mice . In Antioxidants (Basel) on 2022 Apr 29 by Xiyue Shen, Saddam Muhammad Ishaq, et al..PMID:35624743, , (2022)

[PMID:35624743](#)

el at., Inhibitory Effects of Combined Bone Morphogenetic Protein 2, Vascular Endothelial Growth Factor, and Basic Fibroblast Growth Factor on Osteoclast Differentiation and Activity. In Tissue Eng Part A on 2021 Nov by Huan Wu, Guangfu Yin,et al..PMID:33632010, , (2021)

[PMID:33632010](#)

el at., Okadaic acid promotes epithelial mesenchymal transition of hepatocellular carcinoma cells by inhibiting protein phosphatase 2A.In J Cell Biochem on 2020 Jan 6. by Kong J, Li D, et al..PMID: 31904141 , , (2020)

[PMID:31904141](#)

el at., Circular RNA CDR1as promotes adipogenic and suppresses osteogenic differentiation of BMSCs in steroid-induced osteonecrosis of the femoral head.In Bone on 2020 Apr by Chen G, Wang Q, et al..PMID:32018039, , (2020)

[PMID:32018039](#)

el at., mTOR may interact with PARP-1 to regulate visible light-induced parthanatos in photoreceptors.In Cell Commun Signal on 2020 Feb 17; by Pan YR, Song JY, et al..PMID:32066462, , (2020)

[PMID:32066462](#)

el at., Circular RNA CDR1as promotes adipogenic and suppresses osteogenic differentiation of BMSCs in steroid-induced osteonecrosis of the femoral head. In Bone on 2020 Apr by Gaoyang Chen, Qingyu Wang, et al..PMID: 32018039, , (2020)

[PMID:32018039](#)

el at., GSK-3 β activation accelerates early-stage consumption of Hippocampal Neurogenesis in senescent mice. In Theranostics on 2020 Aug 1 by Fei Liu, Na Tian,et al..PMID:32863953, , (2020)

[PMID:32863953](#)

el at., Down-Regulated CMTM2 Promotes Epithelial-Mesenchymal Transition in Hepatocellular Carcinoma. In Onco Targets Ther on 2020 Jun 17 by Shidong Zhang, Run Tian, et al..PMID: 32606785, , (2020)

[PMID:32606785](#)

el at., Suppressing endoplasmic reticulum stress-related autophagy attenuates retinal light injury. In Aging (Albany NY) on 2020 Aug 28 by Jing-Yao Song, Bin Fan,et al..PMID: 32858529, , (2020)

[PMID:32858529](#)

el at., Rho signalling pathway enhances proliferation of PSMCs by suppressing nuclear translocation of Smad1 in PAH. In Exp Ther Med on 2019 Jan by Wei H, Zhang D, et al..PMID:30603049, , (2019)

[PMID:30603049](#)

el at., Therapeutic hypothermia protects photoreceptors through activating Cirbp pathway. In Neurochem Int on 2019 Jun by Sun YJ, Ma S, et al..PMID:30878570, , (2019)

[PMID:30878570](#)

el at., Inhibition of SCD1 Activity Blocks Cell Cycle Progression and Impairs Proliferation in Breast Cancer Cells.In Sichuan Da Xue Xue Bao Yi Xue Ban.On 2019 Jul by Zhao J, Zhang LT et al..PMID:31642233, , (2019)

[PMID:31642233](#)

el at., Correlations between chromobox homolog 8 and key factors of epithelial-mesenchymal transition In hepatocellular carcinoma. In Cancer Cell Int on 2019 Dec 17 by Zhu X, Luo W, et al..PMID:31889893, , (2019)

[PMID:31889893](#)

el at., Baicalein induces the apoptosis of HCT116 human colon cancer cells via the upregulation of DEPP/Gadd45a and activation of MAPKs. In Int J Oncol. On 2018 Aug by Su MQ, Zhou YR et al..PMID:29749481, , (2018)

[PMID:29749481](#)

el at., Inhibition of mTOR signaling protects photoreceptor cells against serum deprivation by reducing oxidative stress and inducing G2/M cell cycle arrest.In Mol Med Rep on 2016 May by Bin Fan , Fu-Qiang Li et al..PMID: 27035647, , (2016)

[PMID:27035647](#)

el at., Apurinic/apurimidine endonuclease 1 induced upregulation of fibroblast growth factor 2 and its receptor 3 induces angiogenesis in human osteosarcoma cells.In Cancer Sci on 2014 Feb by Tao Ren, Yi Qing et al..PMID:24329908, , (2014)

[PMID:24329908](#)

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