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Datasheet for ABIN3020547

anti-beta Actin antibody (AA 1-375)

7 Images

8 Publications

Overview

Quantity:	100 µL
Target:	beta Actin (ACTB)
Binding Specificity:	AA 1-375
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This beta Actin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-375 of human beta-Actin (NP_001092.1).
Sequence:	MDDDIAALVV DNGSGMCKAG FAGDDAPRAV FPSIVGRPRH QGVMVGMGQK DSYVGDEAQS KRGILTLKYP IEHGIVTNWD DMEKIWHHTF YNELRVAPEE HPVLLTEAPL NPKANREKMT QIMFETFNTP AMYVAIQAVL SLYASGRTTG IVMDSGDGVT HTVPIYEGYA LPHAILRLDL AGRDLTDYLM KILTERGYSF TTTAEREIVR DIKEKLCYVA LDFEQEMATA ASSSSLEKSY ELPDGQVITI GNERFRCP EA LFQPSFLGME SCGIHETTFN SIMKCDVDIR KDLYANTVLS GGTTMYPGIA DRMQKEITAL APSTMKIKII APPERKYSVW IGG SILASLS TFQQMWISKQ EYDESGPSIV HRKCF
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat

Product Details

Characteristics: Loading control Antibodies

Purification: Affinity purification

Target Details

Target: beta Actin (ACTB)

Alternative Name: ACTB ([ACTB Products](#))

Background: This gene encodes one of six different actin proteins. Actins are highly conserved proteins that are involved in cell motility, structure, and integrity. This actin is a major constituent of the contractile apparatus and one of the two nonmuscle cytoskeletal actins.,ACTB,BRWS1,PS1TP5BP1,beta actin,actin,Signal Transduction,Cell Biology & Developmental Biology,Cytoskeleton,Microfilaments,Protein folding,Death Receptor Signaling Pathway,Endocrine & Metabolism,Mitochondrial metabolism,Immunology & Inflammation,ACTB

Molecular Weight: 41 kDa

Gene ID: 60

UniProt: [P60709](#)

Pathways: [Myometrial Relaxation and Contraction](#), [Cell-Cell Junction Organization](#), [Maintenance of Protein Location](#), [Phototransduction](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IHC,1:50 - 1:200

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid freeze / thaw cycles

Handling

Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

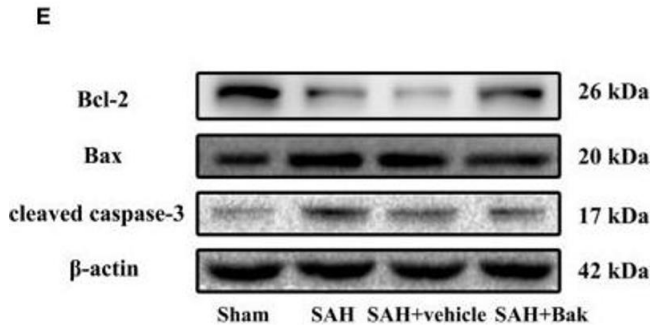
Publications

Product cited in: Wu, Zhang, Qi, Zhang, Li, Li, Lin, Bai, Liu, Chen, Yang, Xu, Zhang, Yang: "Nicotine promotes atherosclerosis via ROS-NLRP3-mediated endothelial cell pyroptosis." in: **Cell death & disease**, Vol. 9, Issue 2, pp. 171, (2018) ([PubMed](#)).

Du, Qiao, Chen, Chen, Liu, Lin, Wang, Xie: "Toll-Like Receptor 4 Mediates Methamphetamine-Induced Neuroinflammation through Caspase-11 Signaling Pathway in Astrocytes." in: **Frontiers in molecular neuroscience**, Vol. 10, pp. 409, (2017) ([PubMed](#)).

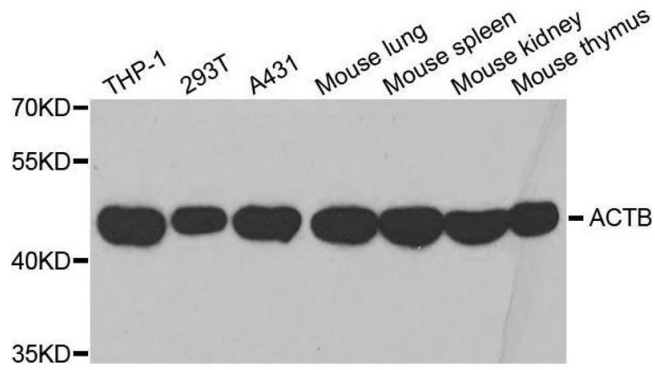
There are more publications referencing this product on: [Product page](#)

Validation report #104427 for Immunohistochemistry (IHC)



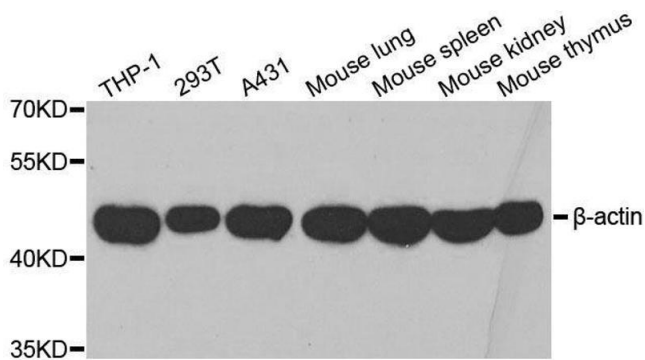
Western Blotting

Image 1. The effects of Bak on cellular apoptosis and neuronal degeneration following SAH. (A, B) Representative images of TUNEL staining and quantitative analyses of TUNEL positive cells. Scale bar = 50 μ m. (C, D) Representative images of FJC staining and quantitative analyses of FJC positive cells. Scale bar = 50 μ m. (E-H) The effects of Bak on the apoptosis signaling 24 h after SAH. The representative western blot images and statistical analysis of the protein levels of Bcl-2, Bax, and cleaved caspase-3 are shown. Values are expressed as mean \pm SD, n=6 for each group. *P < 0.05 vs. sham group, #P < 0.05 vs. SAH + vehicle group. Bak, bakuchiol, SAH, subarachnoid hemorrhage, TUNEL, terminal deoxynucleotidyl transferase UTP nick-end labeling, FJC, Fluoro-Jade C. - figure provided by CiteAb. Source: PMID32499702



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using β -actin antibody.



Western Blotting

Image 3. Western blot analysis of extracts of various cell lines, using β -actin antibody.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN3020547.