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Anti-Beta-Actin Antibody

Catalog Number: M01263-3

About ACTB

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.

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Overview

Product Name	Anti-Beta-Actin Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Beta-Actin Antibody (Catalog # M01263-3). Tested in WB, Flow Cytometry, IF, IHC-P application(s). This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IF, IHC-P, WB
Clonality	Monoclonal 137CT26.1.1
Formulation	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Host	Mouse
Uniprot ID	P60709

Technical Details

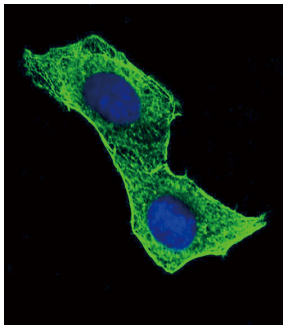
Immunogen	This ACTB Monoclonal antibody is generated from mouse immunized with ACTB recombinant protein.
Predicted Reactive Species	Bovine, Chicken, Horse, Monkey, Pig, Sheep, Xenopus
Isotype	IgG1,Igk
Purification	This antibody is purified through a protein G column, followed by dialysis against PBS.
Suggested Dilutions	WB: 1:1000

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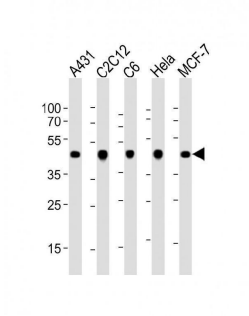
	IF: 1:10-1:50 IHC-P: 1:25 FC: 1:25 IHC: 1:50 Tested Species: In-house tested species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

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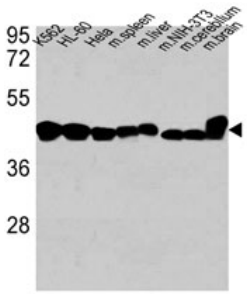
Anti-Beta-Actin Antibody (M01263-3) Images



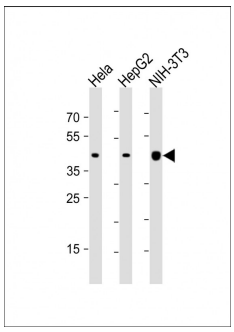
Confocal immunofluorescent analysis of ACTB Antibody with Hela cell followed by Alexa Fluor® 488-conjugated goat anti-mouse IgG (green). DAPI was used to stain the cell nuclear (blue).



All lanes : Anti-ACTB Antibody at 1:1000 dilutionLane 1: A431 whole cell lysateLane 2: C2C12 whole cell lysateLane 3: C6 whole cell lysateLane 4: Hela whole cell lysateLane 5: MCF-7 whole cell lysateLysates/proteins at 20 ug per lane. SecondaryGoat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 42 kDaBlocking/Dilution buffer: 5% NFDM/TBST.



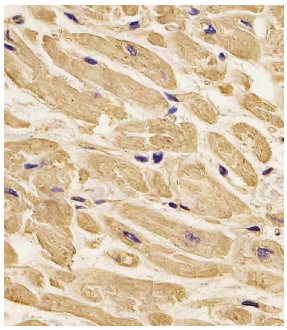
Western blot analysis of anti-ACTB Antibody in K562, HL-60,Hela cell line, mouse spleen, mouse liver tissue lysates, mouse NIH-3T3 cell line lysate and mouse cerebellum, mouse brain tissue lysates (35g/lane). ACTB (arrow) was detected using the purified Mab.



All lanes : Anti-ACTB Antibody at 1:1000 dilutionLane 1: Hela whole cell lysateLane 2: HepG2 whole cell lysateLane 3: NIH-3T3 whole cell lysateLysates/proteins at 20 µg per lane. SecondaryGoat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 42 kDaBlocking/Dilution buffer: 5% NFDM/TBST.

M01263-3 staining ACTB in human heart tissue sections by Immunohistochemistry (IHC-P -paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the

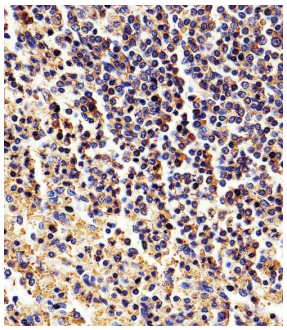
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secondary antibody.



Immunohistochemical analysis of paraffin-embedded H.skeletal muscle section using Beta-Actin Antibody. M01263-3 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Immunohistochemical analysis of paraffin-embedded H.spleen section using Beta-Actin Antibody. M01263-3 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

64 Publications Citing This Product

1. PubMed ID: 30926388, Liu ZZ,Han ZD,Liang YK,Chen JX,Wan S,Zhuo YJ,Cai ZD,Deng YL,Lin ZY,Mo RJ,He HC,Zhong WD.TRIB1 induces macrophages to M2 phenotype by inhibiting IKB-zeta in prostate cancer.Cell Signal.2019 Jul;59:152-162.doi:10.1016/j.cellsig.2019.03.017.Epub 2019 Mar 26.PMID:30926388.

2. PubMed ID: 31474877, Ma Y,Chai H,Ding Q,Qian Q,Yan Z,Ding B,Dou X,Li S.Hepatic SIRT3 Upregulation in Response to Chronic Alcohol Consumption Contributes to Alcoholic Liver Disease in Mice.Front Physiol.2019 Aug 13;10:1042.doi:10.3389/fphys.2019.01042.PMID:31474877;PMCID:PMC6707764.

3. PubMed ID: 31709780, Liu J,Yang C,Yang J,Song X,Han W,Xie M,Cheng L,Xie L,Chen H,Jiang L.Effects of early postnatal exposure to fine particulate matter on emotional and cognitive development and structural synaptic plasticity in immature and mature rats.Brain Behav.2019 Dec;9(12):e01453.doi:10.1002/brb3.1453.Epub 2019 Nov 11.PMID:31709780; PMCID:PMC6908876.

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