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Anti-beta Actin ACTB Antibody Biotin Conjugated

Catalog Number: A01263-Biotin

About ACTB

In vertebrates 3 main groups of actin isoforms, alpha, beta and gamma have been identified. Alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. Beta and gamma actins coexist in most cell types as components of the cyto-skeleton and as mediators of internal cell motility. Beta actins are highly conserved proteins that are involved in cell motility, structure and integrity. Beta actins are cytoplasmic proteins. Anti-Actin is a loading control antibody and is critical for the correct interpretation of your western blot. Beta-Actin Loading Control Antibody is used to normalize the levels of protein detected by confirming that protein loading is uniform across the gel.

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Overview

Product Name	Anti-beta Actin ACTB Antibody Biotin Conjugated
Reactive Species	Human, Mouse, Leopard frog
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na2HPO4, 0.02% NaN3.
Storage Instructions	At -20˚C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P60709

Technical Details

Immunogen	beta-Actin Loading Control Antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to C-Terminal region near amino acids 350-375 of Human beta Actin.
Predicted Reactive Species	Bovine, Goat, Guinea Pig, Hamster, Monkey, Sheep
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid

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Concentration	0.5 mg/mL
Purification	Anti-beta-Actin Loading Control Antibody reacts with Human, Rat, Monkey and Mouse. beta-Actin Loading Control Antibody is expected to cross-react with a wide range of species due to sequence homology. Anti-Beta Actin is affinity-purified antibody is directed against human beta Actin protein. A BLAST analysis was used to suggest that this antibody would react with beta Actin from a wide range of organisms, including most vertebrates and some yeast. Broad reactivity makes this antibody an excellent loading control.
Conjugate	Biotin
Suggested Dilutions	The intended application should be selected according to the customer's experimental requirements.

193 Publications Citing This Product

1. PubMed ID: 10.1111/jnc.14890, Activation of liver X receptor promotes hippocampal neurogenesis and improves long-term cognitive function recovery in acute cerebral ischemia-reperfusion mice

2. PubMed ID: 33891271, Gao H,Wang D,Wang YL,Mao JP,Jiang S,Yang XL.Pramipexole attenuates 6-OHDA-induced Parkinson's disease by mediating the Nurr1/NF-kappaB pathway.Mol Biol Rep.2021 Apr 23.doi:10.1007/s11033-021-06343-8.Epub ahead of print.PMID:33891271.

3. PubMed ID: 32184591, Peng L,Liang Y,Zhong X,Liang Z,Tian Y,Li S,Liang J,Wang R,Zhong Y,Shi Y,Zhang X.Aptamer-Conjugated Gold Nanoparticles Targeting Epidermal Growth Factor Receptor Variant III for the Treatment of Glioblastoma.Int J Nanomedicine.2020 Feb 28;15:1363-1372.doi:

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