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Anti-Beta-actin ACTB Antibody

Catalog Number: A01263-1

About ACTB

Actins are highly conserved proteins that are involved in cell motility, structure and integrity, processes that are crucial for tissue development and the development of organism. The actin cytoskeleton is one of the principal drivers of cell motility and is capable of responding to complex signaling cascades. Recent evidence suggests that it may play key roles in regulating apoptosis and aging. Beta actin is one of six different actin isoforms which have been identified. Like GAPDH, beta-actin is constitutively expressed at high levels in almost all tissues and cell lines making it ideal for use as a loading control marker in immunoblots.

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Overview

Product Name	Anti-Beta-actin ACTB Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Beta-actin ACTB Antibody (Catalog # A01263-1). Tested in ELISA, WB, ICC, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	Beta-actin Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	Beta-actin antibody can be stored at 4°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	P60709

Technical Details

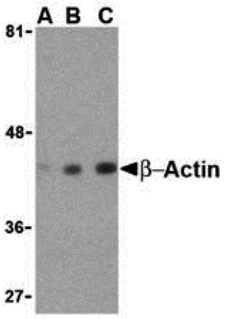
Immunogen	Beta-actin antibody was raised against a 16 amino acid synthetic peptide from near the carboxy terminus of human Beta-actin. The immunogen is located within the last 50 amino acids of Beta-actin.
Predicted Reactive Species	Bovine, Chicken, Guinea Pig, Horse, Pig, Rabbit, Sheep

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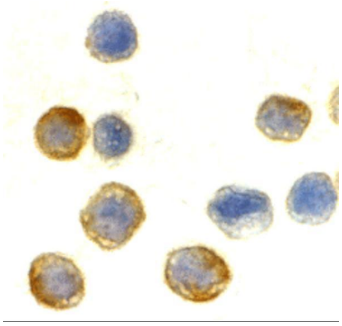
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	Beta-actin Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	Beta-actin antibody can be used for the detection of Beta-actin by Western blot at 0.5 - 2 ug/mL. Antibody can also be used for immunocytochemistry starting at 10 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in human samples; Immunocytochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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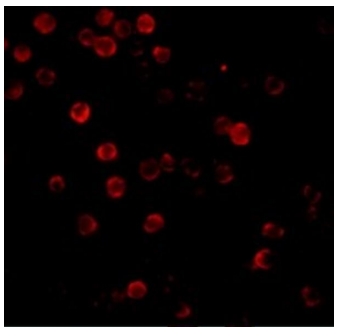
Anti-Beta-actin ACTB Antibody (A01263-1) Images



Western blot analysis of beta-actin in HeLa cell lysate with beta-actin antibody at (A) 0.5, (B) 1 and (C) 2 ug/mL.



Immunocytochemistry of beta-actin in HeLa cells with beta-actin antibody at 10 ug/mL.



Immunofluorescence of Beta-actin in HeLa cells with Beta-actin antibody at 20 ug/mL.

78 Publications Citing This Product

1. PubMed ID: 34006836, Cui J,Xu H,Yu J,Li Y,Chen Z,Zou Y,Zhang X,Du Y,Xia J,Wu J.IL-4 inhibits regulatory T cells differentiation by HDAC9-mediated epigenetic regulation.Cell Death Dis.2021 May 18;12(6):501.doi:10.1038/s41419-021-03769-7.PMID:34006836.

2. PubMed ID: -, Hu J,Cai D,Zhao Z,Zhong G-C and Gong J (2021) Suppression of Heterogeneous Nuclear Ribonucleoprotein C Inhibit Hepatocellular Carcinoma Proliferation, Migration, and Invasion via Ras/MAPK Signaling Pathway.Front.Oncol.11:659676.doi:10.3389/fonc.2021.659676

3. PubMed ID: 33859765, Li D,Liu J,Yang C,Tian Y,Yin C,Hu L,Chen Z,Zhao F,Zhang R,Lu A,Zhang G,Qian A.Targeting long noncoding RNA PMIF facilitates osteoprogenitor cells migrating to bone formation surface to promote bone formation during aging.Theranostics.2021 Mar 20;11(11):5585-5604.doi:10.7150/thno.54477. PMID:33859765;PMCID:PMC8039942.

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