

Rabbit beta-Actin Polyclonal Antibody | anti-ACTB antibody

beta-Actin (A11) Antibody

CATALOG # AAA63014	HOST Rabbit	REACTIVITY Mouse, rat, human	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

beta-Actin; Polyclonal Antibody; beta-Actin (A11) Antibody; anti-ACTB antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, rat, human
Clonality	Polyclonal
Specificity	Mouse, rat, and human beta-Actin
Form/Format	100 ug/ml rabbit polyclonal IgG in 1 ml PBS containing 0.1 % sodium azide and 0.2% gelatin.
Sequence Length	375
Applicable Applications for anti-ACTB antibody	IHC (Immunohistochemistry), WB (Western Blot)
Origin	beta-Actin (A11) is provided as an affinity purified rabbit polyclonal antibody, raised against a peptide mapping to the amino terminal domain of human beta-Actin.
Competition Studies	A blocking peptide is also available, , for use in competition studies.
Preparation and Storage	Store this product at 4°C, do not freeze. The product is stable for one year from the date of shipment.

ADDITIONAL INFORMATION

Related Product Information for anti-ACTB antibody	All eukaryotic cell types express actin. The regulation of the actin cytoskeleton is tightly linked to vital biological properties such as polarity, motility, cell-cell contact, exocytosis and proliferation (1&2). While lower eukaryotes such as yeast, have only one actin gene; higher eukaryotes have several isoforms encoded by a family of genes (3&4). At least six types of actin are present in mammalian tissues and fall into three classes (5). Alpha-actin expression is limited to various types of muscle, whereas beta and gamma are the principle constituents of filaments in other tissues (6).
References	1.) Hoffrogge R, Mikkat S, Scharf C, Beyer S, Christoph H, Pahnke J, Mix E, Berth M, Uhrmacher A, Zubrzycki IZ, Miljan E, Volker U, Rolfs A. 2006. 2-DE proteome analysis of a proliferating and differentiating human neuronal stem cell line (ReNcell VM). Proteomics. Mar;6(6):1833-47. 2.) Dogan S, Hu X, Zhang Y, Maihle NJ, Grande JP, Cleary MP. 2007. Effects of high-fat diet and/or body weight on mammary tumor leptin and apoptosis signaling pathways in MMTV-TGF-alpha mice. Breast Cancer Res. 9(6):R91. 1.Fuller CL, Braciale VL and Samelson LE. 2003. All roads lead to actin: the intimate relationship between TCR signaling and the cytoskeleton. Immunol Rev. 191:220-236. 2.Giganti A and Friederich E. 2003. The actin cytoskeleton as a therapeutic target: state of the art and future directions. Prog Cell Cycle Res. 5:511-525. 3.Doolittle RF. 1995. The origins and evolution of eukaryotic proteins. Philos Trans Royal Soc London Biol Sci. 349(1329):235-240. 4.Maccioni RB and Cambiazo V. 1995. Role of microtubule-associated proteins in the control of microtubule assembly. Physiol Rev. 75(4):835-864. 5.Schutt CE, Rozycki MD, Myslik JC, Lindberg U. 1995. A discourse on modeling F-actin. J. Struct. Biol. 115:186-198. 6.Barkalow K and Hartwig JH. 1995. Actin cytoskeleton. Setting the pace of cell movement. Curr Biol. 5(9):1000-1002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4501885
NCBI GeneID	60
NCBI Accession #	NP_001092.1
NCBI GenBank Nucleotide #	NM_001101.3
UniProt Accession #	P60709; P02570; P70514; P99021; Q11211; Q64316; Q75MN2; Q96B34; Q96HG5
NCBI Official Full Name	actin, cytoplasmic 1
NCBI Official Synonym Full Names	actin, beta
NCBI Official Symbol	ACTB
NCBI Official Synonym Symbols	BRWS1; PS1TP5BP1
NCBI Protein Information	actin, cytoplasmic 1; PS1TP5-binding protein 1; beta cytoskeletal actin
UniProt Protein Name	Actin, cytoplasmic 1
UniProt Gene Name	ACTB
UniProt Entry Name	ACTB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/beta-actin-antibody-immunohistochemistry-western-blot-elisa/63014>