

Actin, beta Human Active Protein | ACTB active protein

Actin, beta Human

CATALOG # AAA14745	HOST Purified beta-Actin from Human platelets cells.	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

Actin; beta Human; ACTB active protein

PRODUCT SPECIFICATIONS

Host	Purified beta-Actin from Human platelets cells.
Purity/Purification	>99%. May contain traces of gamma-actin.
Form/Format	Supplied as a liquid in 5mM Tris. pH 8, 0.2mM calcium chloride, 0.2mM ATP, 5% sucrose, 1% dextran.
Concentration	1mg/ml (varies by lot)
Applicable Applications for ACTB active protein	ELISA, WB (Western Blot)
Application Notes	Recommended Dilution: ELISA: 1ug/ml Used to coat plates Western Blot: 100-500ng/lane in SDS-PAGE sample buffer (reduced) and load as needed. Other applications not tested. Optimal dilution to be determined by the researcher.
Biological Activity	Not tested. If the protein is stored and used properly can be used for biological assays.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeating freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months after receipt. For maximum recovery of product, centrifuge the original vial prior to removing the cap.

ADDITIONAL INFORMATION

Related Product Information for ACTB active protein	Actin and myosin are the two major cytoskeleton proteins implicated in cellular movement, secretion, phagocytosis, and kinesis. Actin is one of the most conserved cellular protein. At least 6 actin isoforms have been identified by protein sequence analyses. Four actin isoforms represent the differentiation markers of muscle tissues. There are three a-actins: a-skeletal, a-cardiac, and a-smooth muscle), one b-actin (b-non-muscle), and two g-actins (gsmooth muscle and g-non-muscle). Actin isoform are >90% conserved, except in the N-terminal 18-aa (50-60% homology). Beta-actin protein and mRNA levels are often used as a reference for comparing changes in cellular protein/mRNA levels by Western blots.
Product Categories/Family for ACTB active protein	Molecular Biology; MB-Actin Related Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	16359158
NCBI GeneID	60
UniProt Accession #	P60709; P02570; P70514; P99021; Q11211; Q64316; Q75MN2; Q96B34; Q96HG5
Molecular Weight	~43kD
NCBI Official Full Name	Actin, beta

NCBI Official Synonym Full Names	actin, beta
NCBI Official Symbol	ACTB
NCBI Official Synonym Symbols	BRWS1; PS1TP5BP1
NCBI Protein Information	actin, cytoplasmic 1; beta cytoskeletal actin; PS1TP5-binding protein 1
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/purified-beta-actin-from-human-platelets-cells-active-protein/actin-beta-human/14745>