

Rabbit alpha-Actinin Polyclonal Antibody | anti-ACTN1 antibody

alpha-Actinin Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329509	Rabbit	Human, Mouse, Rat Predicted Reactivity: Zebrafish (92%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)	ELISA, Western Blot

PRODUCT SYNONYMS

alpha-Actinin; Polyclonal Antibody; alpha-Actinin Antibody; actinin 1 smooth muscle; Actinin alpha 1; actinin; alpha 1; ACTN 1; Actn1; ACTN1_HUMAN; Alpha Actinin 1; Alpha actinin cytoskeletal isoform; Alpha-actinin cytoskeletal isoform; Alpha-actinin-1; BDPLT15; F actin cross linking protein; F-actin cross-linking protein; FLJ40884; FLJ54432; Non muscle alpha actinin 1; Non-muscle alpha-actinin-1; anti-ACTN1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Zebrafish (92%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	alpha-Actinin Antibody detects endogenous levels of total alpha-Actinin.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-ACTN1 antibody	ELISA (Peptide ELISA), WB (Western Blot)
Immunogen	A synthesized peptide derived from human alpha-Actinin, corresponding to a region within the internal amino acids.
Conjugation	Unconjugated
Fragment	Fab fragment
Subunit Structure	Homodimer; antiparallel. Interacts with MYOZ2, TTID and LPP. Interacts with DDN. Interacts with PSD. Interacts with MICALL2 (By similarity). Interacts with DNM2 and CTTN. Interacts with PDLIM1. Interacts with PDLIM2. Interacts with PDLIM4 (via PDZ domain) (By similarity).
Similarity	Belongs to the alpha-actinin family.
Subcellular Location	Cytoplasm>Cytoskeleton. Cytoplasm>Myofibril>Sarcomere>Z line. Cell membrane. Cell junction. Cell projection>Ruffle. Note: Colocalizes with MYOZ2 and PPP3CA at the Z-line of heart and skeletal muscle. Colocalizes with PSD in membrane ruffles and central reticular structures.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of alpha-Actinin in lysates of C6, using alpha-Actinin Antibody(AF4629).



WB (Western Blot)
Western blot analysis of extracts from various samples, using alpha-Actinin Antibody.Lane 1: NIH-3T3 cells, blocked with antigen-specific peptides,Lane 2: NIH-3T3 cells,Lane 3: MDA-MB-231 cells,Lane 4: EC304 cells.

ADDITIONAL INFORMATION

Related Product Information for anti-ACTN1 antibody	F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4501891
NCBI GeneID	87
NCBI Accession #	NP_001093.1
NCBI GenBank Nucleotide #	NM_001102.3
UniProt Accession #	P12814; Q1HE25; Q9BTN1; B3V8S3; B4DHH3
Molecular Weight	103,058 Da
NCBI Official Full Name	alpha-actinin-1 isoform b
NCBI Official Synonym Full Names	actinin, alpha 1
NCBI Official Symbol	ACTN1
NCBI Official Synonym Symbols	BDPLT15
NCBI Protein Information	alpha-actinin-1; actinin 1 smooth muscle; non-muscle alpha-actinin-1; F-actin cross-linking protein; alpha-actinin cytoskeletal isoform
UniProt Protein Name	Alpha-actinin-1
UniProt Gene Name	ACTN1
UniProt Entry Name	ACTN1_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.