

Rabbit ACTN1/2/3/4 Polyclonal Antibody | anti-ACTN1 antibody

ACTN1/2/3/4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327557	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

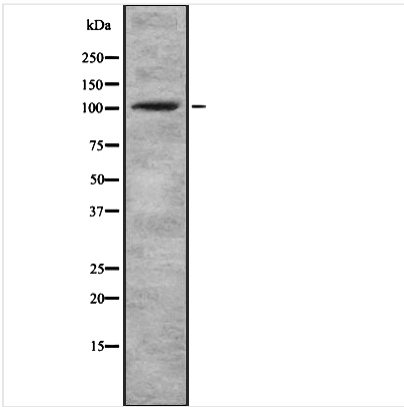
PRODUCT SYNONYMS

ACTN1/2/3/4; Polyclonal Antibody; ACTN1/2/3/4 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; Actin binding protein; Actinin alpha 2; ACTN 2; ACTN2; ACTN2_HUMAN; Alpha actinin 2; Alpha actinin skeletal muscle; Alpha actinin skeletal muscle isoform 2; Alpha-actinin skeletal muscle isoform 2; Alpha-actinin-2; CMD1AA; Actinin alpha 3; alpha; ACTN 3; ACTN3; ACTN3_HUMAN; Alpha actinin skeletal muscle isoform 3; Alpha-Actinin 3; Alpha-actinin skeletal muscle isoform 3; Alpha-actinin-3; MGC117002; MGC117005; OTTHUMP00000219049; OTTHUMP00000219054; actinin 4; Actinin alpha 4; actinin4; ACTN 4; ACTN4; ACTN4_HUMAN; Alpha-actinin-4; DKFZp686K23158; Focal segmental glomerulosclerosis 1; FSGS 1; FSGS; FSGS1; Non muscle alpha actinin 4; Non-muscle alpha-actinin 4; anti-ACTN1 antibody

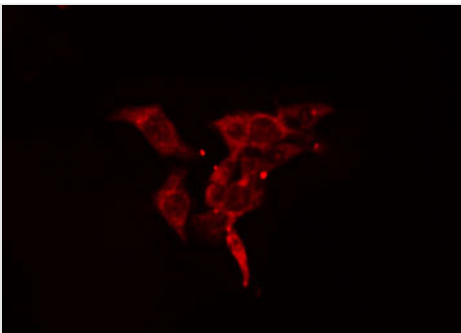
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ACTN1/2/3/4 antibody detects endogenous levels of total ACTN1/2/3/4
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	892
Applicable Applications for anti-ACTN1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ACTN1/2/3/4
Subcellular Location	Cytoplasm > Cytoskeleton. Cytoplasm > Myofibril > Sarcomere > Z Line. Colocalizes with MYOZ2 and PPP3CA at the Z-line of heart and skeletal muscle.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of ACTN1/2/3/4 using COLO205 whole cell lysates



IF (Immunofluorescence)
AAA327557 staining 293 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-ACTN1 antibody	Function: F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein. Subunit Structure: Homodimer; antiparallel. Interacts with MYOZ2, TTID and LPP (PubMed:10369880, PubMed:11114196, PubMed:12615977). Interacts with DDN (PubMed:16464232). 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.
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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; B7TY16
Molecular Weight	Observed: 104 kDa Predicted: 104 kDa
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
UniProt Protein Name	Alpha-actinin-1
UniProt Gene Name	ACTN1

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.