

Anti-Actinin-alpha antibody



Description	Rabbit polyclonal to Actinin-alpha1.
Model	STJ91465
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, WB
Immunogen	Synthesized peptide derived from human Actinin-alpha1
Immunogen Region	1-80 aa, N-terminal
Gene ID	87
Gene Symbol	ACTN1
Dilution range	WB 1:500-1:2000ELISA 1:40000
Specificity	Actinin-alpha1 Polyclonal Antibody detects endogenous levels of Actinin-alpha1 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Alpha-actinin-1 Alpha-actinin cytoskeletal isoform F-actin cross-linking protein Non-muscle alpha-actinin-1
Molecular Weight	103 kDa
Clonality	Polyclonal
Conjugation	Unconjugated

Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:163OMIM:102575
Alternative Names	Alpha-actinin-1 Alpha-actinin cytoskeletal isoform F-actin cross-linking protein Non-muscle alpha-actinin-1
Function	F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein.
Cellular Localization	Cytoplasm, cytoskeleton Cytoplasm, myofibril, sarcomere, Z line Cell membrane Cell junction Cell projection, ruffle. Colocalizes with MYOZ2 and PPP3CA at the Z-line of heart and skeletal muscle. Colocalizes with PSD in membrane ruffles and central reticular structures .
Post-translational Modifications	The monomethylation of Lys-84 regulates actin-myosin interactions and actomyosin-dependent processes. ALKBH4 will demethylate Lys-84, which is required for maintaining actomyosin dynamics, and support normal cleavage furrow ingression during cytokinesis and cell migration.