

Mouse ACTN1 Monoclonal Antibody | anti-ACTN1 antibody

ACTN1 antibody

CATALOG # AAA106290	HOST Mouse	APPLICATIONS Western Blot, Immunohistochemistry, Immunofluorescence
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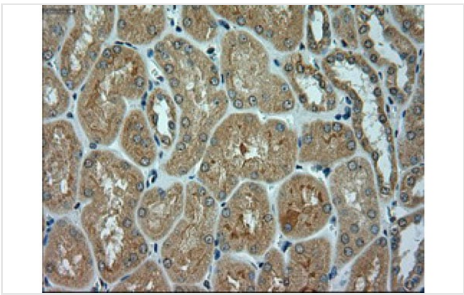
PRODUCT SYNONYMS

ACTN1; Monoclonal Antibody; ACTN1 antibody; Monoclonal ACTN1; Anti-ACTN1; Actinin alpha 1; Alpha-actinin cytoskeletal isoform; Non-muscle alpha actinin 1; F-actin cross linking protein; Actinin 1 smooth muscle; FLJ40884; ACTN 1; ACTN-1; anti-ACTN1 antibody

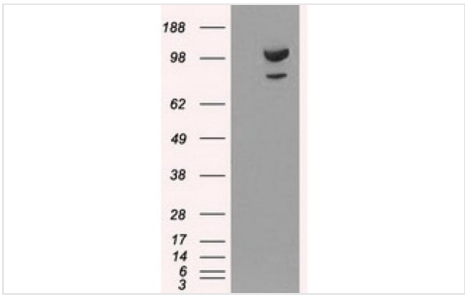
PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	7A4
Purity/Purification	ACTN1 antibody was purified by affinity chromatography.
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration	500 ug-1 mg/ml (varies by lot)
Sequence Length	892
Applicable Applications for anti-ACTN1 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence)
Biological Significance	Alpha actinins belong to the spectrin gene superfamily which represents a diverse group of cytoskeletal proteins, including the alpha and beta spectrins and dystrophins. Alpha actinin is an actin-binding protein with multiple roles in different cell types. In nonmuscle cells, the cytoskeletal isoform is found along microfilament bundles and adherens-type junctions, where it is involved in binding actin to the membrane. In contrast, skeletal, cardiac, and smooth muscle isoforms are localized to the Z-disc and analogous dense bodies, where they help anchor the myofibrillar actin filaments.
Cross-Reactivity	Human
Immunogen	ACTN1 antibody was raised in mouse using a human recombinant protein fragment corresponding to amino acids 650-893 of human alpha-actinin (NP_001093) produced in E Coli as the immunogen.
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

IMAGES



IHC (Immunohistochemistry)
Immunohistochemical analysis of ACTN1 protein in paraffin embedded Human Kidney tissue using ACTN1 antibody



WB (Western Blot)
Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant ACTN1 protein (Right) or empty vector (Left) detected with ACTN1 antibody

ADDITIONAL INFORMATION

Related Product Information for anti-ACTN1 antibody	Mouse monoclonal ACTN1 antibody
Product Categories/Family for anti-ACTN1 antibody	Cell Biology

NCBI AND UNIPROT INFORMATION

NCBI GI #	4501891
NCBI GeneID	87
NCBI Accession #	NP_001093
NCBI GenBank Nucleotide #	NM_001102.3
UniProt Accession #	P12814; Q1HE25; Q9BTN1; B3V8S3; B4DHH3; B7TY16
Molecular Weight	107,141 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
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.