

Rabbit alpha Actinin 4 Polyclonal Antibody | anti-ACTN4 antibody

alpha Actinin 4 antibody

CATALOG # AAA107633	HOST Rabbit	APPLICATIONS Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence
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PRODUCT SYNONYMS

alpha Actinin 4; Polyclonal Antibody; alpha Actinin 4 antibody; Polyclonal alpha Actinin 4; Anti-alpha Actinin 4; FSGS1; alpha Actinin -4; ACTININ-4; focal segmental glomerulosclerosis 1; DKFZp686K23158; FSGS; ACTN4; F-actin cross-linking protein; anti-ACTN4 antibody

PRODUCT SPECIFICATIONS

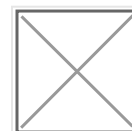
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	alpha Actinin 4 antibody was purified by antigen-affinity chromatography
Form/Format	Supplied as a concentrated solution containing 0.1M Tris, 0.1M Glycine, 10% Glycerol (pH 7.0). 0.01% Thimerosal was added as a preservative.
Concentration	1.03 mg/ml (varies by lot)
Sequence Length	911
Applicable Applications for anti-ACTN4 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), 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. This gene encodes a nonmuscle, alpha actinin isoform which is concentrated in the cytoplasm, and thought to be involved in metastatic processes. Mutations in this gene have been associated with focal and segmental glomerulosclerosis.
Cross-Reactivity	Human, Mouse
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 staining of paraffin-embedded A549 xenograft using alpha Actinin 4 antibody at a dilution of 1:500



IF (Immunofluorescence)

Immunofluorescence analysis of paraformaldehyde-fixed HeLa, using alpha Actinin 4 antibody at 1:200 dilution.

**WB (Western Blot)**

Western blot analysis of 30 ug of whole cell lysate (A: A431; B: Hep G2) using a 7.5 % SDS PAGE gel and alpha Actinin 4 antibody at a dilution of 1:1000

**WB (Western Blot)**

Western blot analysis of 30 ug of whole cell lysate (A: NIH-3T3) using a 7.5 % SDS PAGE gel and alpha Actinin 4 antibody at a dilution of 1:1000

ADDITIONAL INFORMATION

Related Product Information for anti-ACTN4 antibody	Affinity purified Rabbit polyclonal alpha Actinin 4 antibody
Product Categories/Family for anti-ACTN4 antibody	Cell Biology; Purified Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	12025678
NCBI GeneID	81
NCBI Accession #	NP_004915.2
NCBI GenBank Nucleotide #	NM_004924.4
UniProt Accession #	O43707; O76048; A4K467; D6PXX4
Molecular Weight	105 kDa
NCBI Official Full Name	alpha-actinin-4
NCBI Official Synonym Full Names	actinin, alpha 4
NCBI Official Symbol	ACTN4
NCBI Official Synonym Symbols	FSGS; FSGS1; ACTININ-4
NCBI Protein Information	alpha-actinin-4
UniProt Protein Name	Alpha-actinin-4
UniProt Gene Name	ACTN4
UniProt Entry Name	ACTN4_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/polyclonal/alpha-actinin-4-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-elisa/107633>