Rabbit anti-Human alpha-Actinin-4 Monoclonal Antibody | anti-ACTN4 antibody

alpha-Actinin-4 Rabbit mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283092	**Rabbit**	**Human**	**ELISA, Immunoprecipitation, Immunocytochemistry, Immunofluorescence, Western Blot**

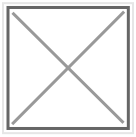
PRODUCT SYNONYMS

alpha-Actinin-4; Monoclonal Antibody; alpha-Actinin-4 Rabbit mAb; FSGS; FSGS1; ACTININ-4; anti-ACTN4 antibody

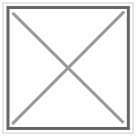
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.
Sequence	MVDYHAANQS YQYGPSSAGN GAGGGGSMGD YMAQEDDWDR DLLLDPAWEK QQRKTFTAWC NSHLRKAGTQ IENIDEDFRD GLKLMLLLEV ISGERLPKPE
Applicable Applications for anti-ACTN4 antibody	ELISA, IP (Immunoprecipitation), ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Cross Reactivity	Human, Mouse, Rat
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 1-100 of human alpha-Actinin-4 (O43707).
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



IP (Immunoprecipitation)
Immunoprecipitation analysis of 300 ug extracts of 293T cells using 3 ug ?-Actinin-4 antibody (AAA283092). Western blot was performed from the immunoprecipitate using ?-Actinin-4 antibody (AAA283092) at a dilution of 1:1000.



ICC (Immunocytochemistry)
Confocal imaging of U-2 OS cells using ?-Actinin-4 Rabbit mAb (AAA283092, dilution 1:100) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with ?-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



WB (Western Blot)
Western blot analysis of various lysates using ?-Actinin-4 Rabbit mAb (AAA283092) at 1:1000 dilution.Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 30s.

ADDITIONAL INFORMATION

Related Product Information for anti-ACTN4 antibody	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.
Product Categories/Family for anti-ACTN4 antibody	Epigenetics Nuclear Signaling; RNA Binding; Cancer; Invasion and Metastasis; Signal Transduction; Cell Biology Developmental Biology; Cell Adhesion; Cytoskeleton; Microfilaments; Extracellular Matrix; Endocrine Metabolism ; Immunology Inflammation; T Cell

NCBI AND UNIPROT INFORMATION

NCBI GI #	13123943
NCBI GeneID	81
UniProt Accession #	O43707; O76048; A4K467; D6PXK4
Molecular Weight	Calculated MW: 105kDa Observed MW: 100kDa
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/monoclonal/alpha-actinin-4-antibody-immunoprecipitation-immunocytochemistry-immunofluorescence-western-blot-elisa/283092