

Rabbit ACTN4 Polyclonal Antibody | anti-ACTN4 antibody

ACTN4 antibody - N-terminal region

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA199067	Rabbit	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Zebrafish	Western Blot, Immunohistochemistry

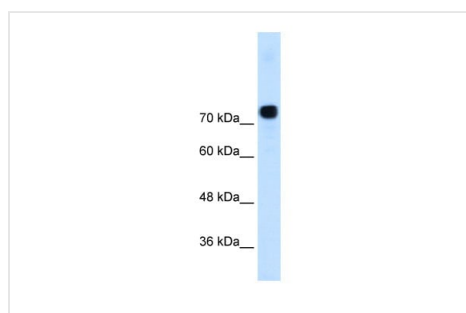
PRODUCT SYNONYMS

ACTN4; Polyclonal Antibody; ACTN4 antibody - N-terminal region; anti-ACTN4 antibody

PRODUCT SPECIFICATIONS

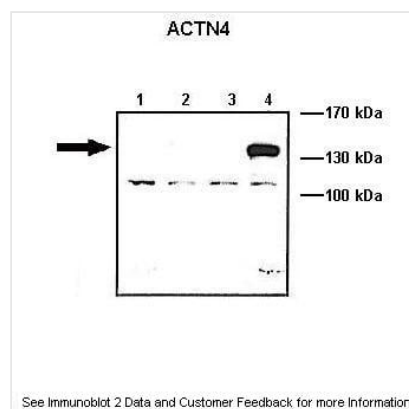
Host	Rabbit
Reactivity	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Zebrafish
Clonality	Polyclonal
Purity/Purification	Protein A purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Sequence	Synthetic peptide with the following region: LI HRHRPELIEY DKLRKDDPVT NLNNAFEVAE KYLDIPKMLD AEDIVNTA
Sequence Length	911
Applicable Applications for anti-ACTN4 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Homology	Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%; Zebrafish: 93%
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human ACTN4
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



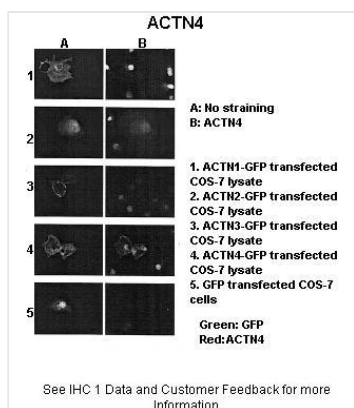
WB (Western Blot)

WB Suggested Anti-ACTN4 Antibody Titration: 0.625ug/ml
Positive Control: HCT116 cell lysate
ACTN4 is supported by BioGPS gene expression data to be expressed in HCT116



WB (Western Blot)

Lanes: Lane1: 10 ug ACTN1-GFP transfected COS-7 lysate
Lane2: 10 ug ACTN2-GFP transfected COS-7 lysate
Lane3: 10 ug ACTN3-GFP transfected COS-7 lysate
Lane4: 10 ug ACTN4-GFP transfected COS-7 lysate
Primary Antibody Dilution: 1: 1000
Secondary Antibody: Anti-rabbit HRP
Secondary Antibody Dilution: 1: 5000
Gene Name: ACTN4
Submitted by: Johannes W. Hell, University of California



IHC (Immunohistochemistry)
 Sample Type :ACTNX-GFP transfected COS-7 cellsPrimary Antibody Dilution :1:1000Secondary Antibody :Anti-rabbit-Alexa-Fluor 568Secondary Antibody Dilution :1:100Color/Signal Descriptions :Green: GFP Red: ACTN4Gene Name :ACTN4Submitted by :Johannes W. Hell, Ph.D., Professor, Department of Pharmacology, University of California, Room 2419D Tupper Hall, Davis, CA 95616-5270, Phone: (530) 752 6540, Lab: (530) 752 7551, FAX: (530) 752 7710

ADDITIONAL INFORMATION

Related Product Information for anti-ACTN4 antibody	This is a rabbit polyclonal antibody against ACTN4. It was validated on Western Blot using a cell lysate as a positive control. Target Description: Alpha actinins belong to the spectrin 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. ACTN4 is a nonmuscle, alpha actinin isoform which is concentrated in the cytoplasm, and thought to be involved in metastatic processes. Mutations in its gene have been associated with focal and segmental glomerulosclerosis.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	Polyclonal; Disease Related; DNA/RNA/Protein Interactions; Tissue Specific & Cell Marker; Hypoxia

NCBI AND UNIPROT INFORMATION

NCBI GI #	12025678
NCBI GeneID	81
NCBI Accession #	NP_004915
NCBI GenBank Nucleotide #	NM_004924
UniProt Accession #	O43707
Molecular Weight	100kDa
NCBI Official Full Name	alpha-actinin-4 isoform 1
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/actn4-antibody-western-blot-immunohistochemistry-elisa/199067>