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anti-alpha Actinin 4 antibody (N-Term)

4 Images

Overview

Clonality:

Application:

2

Polyclonal

Publications



Go to Product page

Quantity:	100 μL
Target:	alpha Actinin 4 (ACTN4)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Dog, Cow, Guinea Pig, Zebrafish (Danio rerio), Horse, Rabbit
Host:	Rabbit

Conjugate: This alpha Actinin 4 antibody is un-conjugated

Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human ACTN4
Sequence:	LIHRHRPELI EYDKLRKDDP VTNLNNAFEV AEKYLDIPKM LDAEDIVNTA
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 93%
Characteristics:	This is a rabbit polyclonal antibody against ACTN4. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Protein A purified

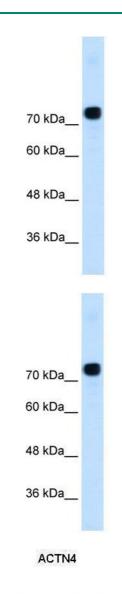
Target Details

Target: alpha Actinin 4 (ACTN4)

Alternative Name:	ACTN4 (ACTN4 Products)
Background:	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 myofibrilla
	actin filaments. This gene encodes a nonmuscle, alpha actinin isoform which is concentrated i
	the cytoplasm, and thought to be involved in metastatic processes. Mutations in this gene have
	been associated with focal and segmental glomerulosclerosis.
	Alias Symbols: DKFZp686K23158, FSGS, FSGS1, ACTININ-4
	Protein Interaction Partner: MYOZ2, HUWE1, UBC, BMP7, ACTN3, SUMO2, SUMO3, GNB2,
	SUMO1, NEDD8, MDM2, HGS, SF3A3, VCP, CDKN2A, ACTN1, PDLIM1, UBD, IGSF8, ICAM1,
	CD81, SVIL, Fcho2, POT1, VCAM1, TXN, RPS27, MAPK7, KPNA2, ITGA4, FN1, ESR1, CDH1,
	TRAF3IP1, FMNL1, NOS3, ACTN2, UBASH3B, SHC
	Protein Size: 911
Molecular Weight:	100 kDa
Gene ID:	81
NCBI Accession:	NM_004924, NP_004915
UniProt:	043707
Pathways:	Proton Transport
Application Details	
Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.

Application Details

Comment:	Antigen size: 911 AA
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 %
	sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small
	aliquots to prevent freeze-thaw cycles.
Publications	
Product cited in:	Tordjman, Leroyer, Chauvet, Quette, Chauvet, Tomkiewicz, Chapron, Barouki, Forest, Aggerbeck,
	Antoine: "Cytosolic aspartate aminotransferase, a new partner in adipocyte glyceroneogenesis
	and an atypical target of thiazolidinedione." in: The Journal of biological chemistry, Vol. 282,
	Issue 32, pp. 23591-602, (2007) (PubMed).



Western Blotting

Image 1. 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

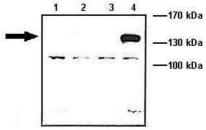
Western Blotting

Image 2. WB Suggested Anti-ACTN4

Antibody Titration: 0.625 µg/mL

Positive Control: HCT116 cell lysate

ACTN4 is supported by BioGPS gene expression data to be expressed in HCT116



Western Blotting

Image 3. 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

See Immunoblot 2 Data and Customer Feedback for more Information

Please check the product details page for more images. Overall 4 images are available for ABIN2775288.