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Datasheet for ABIN2775289

anti-alpha Actinin 4 antibody (C-Term)

3 Images

1 Publication

Overview

Quantity:	100 µL
Target:	alpha Actinin 4 (ACTN4)
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Dog, Cow, Guinea Pig, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This alpha Actinin 4 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human ACTN4
Sequence:	DVENDRQGEA EFNRLMSLVD PNHSGLVTFQ AFIDFMSRET TDTDTADQVI
Predicted Reactivity:	Cow: 93%, Dog: 93%, Guinea Pig: 93%, Human: 100%, Mouse: 93%, Rat: 93%, Zebrafish: 79%
Characteristics:	This is a rabbit polyclonal antibody against ACTN4. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	alpha Actinin 4 (ACTN4)
Alternative Name:	ACTN4 (ACTN4 Products)

Target Details

Background: Alpha actinins belong to the spectrin superfamily which is 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. 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.

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: 105 kDa

Gene ID: 81

NCBI Accession: [NM_004924](#), [NP_004915](#)

UniProt: [O43707](#)

Pathways: [Proton Transport](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 911 AA

Restrictions: For Research Use only

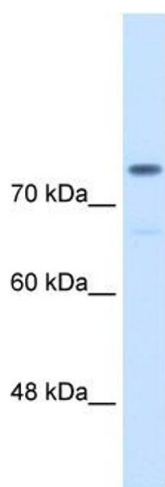
Handling

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

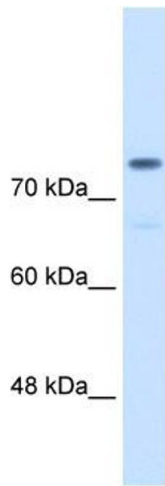
Product cited in:	Tordjman, Leroyer, Chauvet, Quette, Chauvet, Tomkiewicz, Chapron, Barouki, Forest, Aggerbeck, Antoine: "Cytosolic aspartate aminotransferase, a new partner in adipocyte glyceroneogenesis and an atypical target of thiazolidinedione." in: The Journal of biological chemistry , Vol. 282, Issue 32, pp. 23591-602, (2007) (PubMed).
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Images

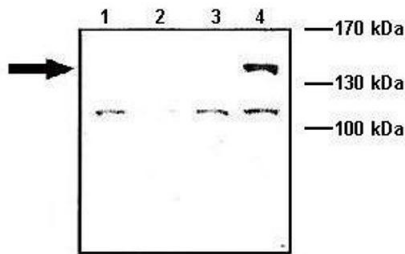


Western Blotting

Image 1. WB Suggested Anti-ACTN4 Antibody Titration: 0.2-1 ug/ml Positive Control: HCT116 cell lysate ACTN4 is supported by BioGPS gene expression data to be expressed in HCT116



ACTN4



See Immunoblot 2 Data and Customer Feedback for more information

Western Blotting

Image 2. WB Suggested Anti-ACTN4

Antibody Titration: 0.2-1 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