

Rabbit ACTN1 Polyclonal Antibody | anti-ACTN1 antibody

ACTN1 antibody - N-terminal region

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA23579	Rabbit	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Zebrafish	Immunohistochemistry, Western Blot

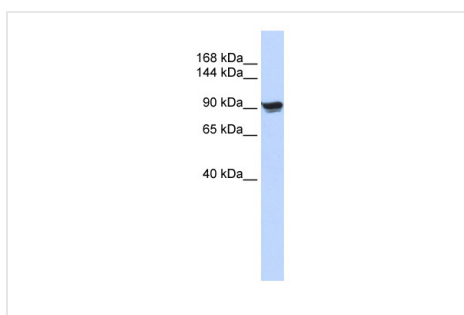
PRODUCT SYNONYMS

ACTN1; Polyclonal Antibody; ACTN1 antibody - N-terminal region; anti-ACTN1 antibody

PRODUCT SPECIFICATIONS

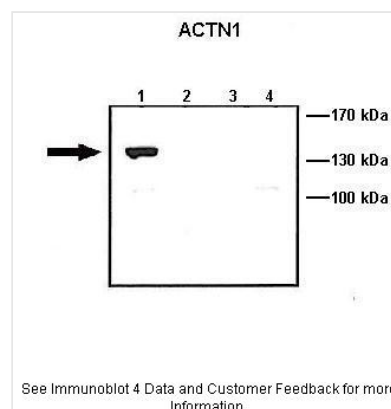
Host	Rabbit
Reactivity	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Zebrafish
Clonality	Polyclonal
Purity/Purification	Affinity Purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Sequence	Synthetic peptide with the following sequence: DH YDSQQTNDYM QPEEDWDRDL LLDPAWEKQQ RKTFTAWCNS HLRKAGTQ
Sequence Length	892
Applicable Applications for anti-ACTN1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Homology	Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 75%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%; Zebrafish: 85%
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human ACTN1
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



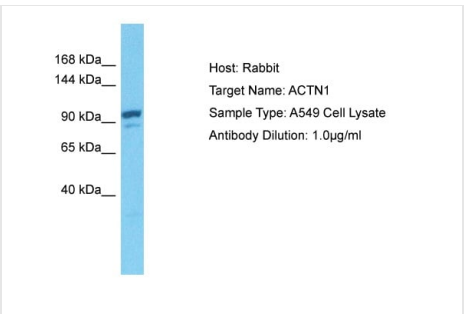
WB (Western Blot)

WB Suggested Anti-ACTN1 Antibody Titration: 0.2-1 ug/ml
ELISA Titer: 1:31250
Positive Control: 293T cell lysate



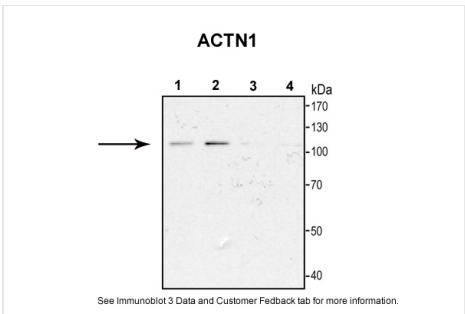
WB (Western Blot)

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: ACTN1
Submitted by: Johannes W. Hell, University of California



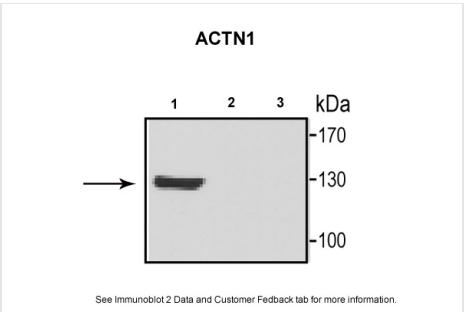
WB (Western Blot)

Host: RabbitTarget Name: ACTN1Sample Tissue: Human A549 Whole CellAntibody Dilution: 1ug/ml



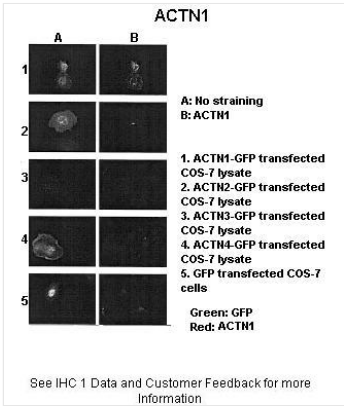
WB (Western Blot)

Sample Type: Rat Cortical NeuronsACTN1 antibody - N-terminal region validated by WB using 1.-2.Rat cortical neurons ctr siRNA (30ug)2. Rat cortical neurons ACTN1 siRNA (30ug) at 1:1000-1:2000.



WB (Western Blot)

Sample Type: Human HEK293Sample Type: 1.-4. rACTN1-GFP + HEK293 (50ug)Primary Dilution: 1:1000-1:2000Secondary Antibody: HRP conjugated goat anti-rabbitSecondary Dilution: 1:20,000Image Submitted By: Magdalena KalinowskaAlbert Einstein College of MedicineÃ,Ã,



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: ACTN1Gene Name :ACTN1Submitted 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-ACTN1 antibody	This is a rabbit polyclonal antibody against ACTN1. It was validated on Western Blot using a cell lysate as a positive control. Target Description: 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. 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, cytoskeletal, alpha actinin isoform and maps to the same site as the structurally similar erythroid beta spectrin gene. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.
Product Categories/Family for anti-ACTN1 antibody	Polyclonal; Various; DNA/RNA/Protein Interactions

NCBI AND UNIPROT INFORMATION

NCBI GI #	4501891
NCBI GeneID	87

NCBI Accession #	NP_001093
NCBI GenBank Nucleotide #	NM_001102
UniProt Accession #	P12814
Molecular Weight	103kDa
NCBI Official Full Name	alpha-actinin-1 isoform b
NCBI Official Synonym Full Names	actinin alpha 1
NCBI Official Symbol	ACTN1
NCBI Official Synonym Symbols	BDPLT15
NCBI Protein Information	alpha-actinin-1
UniProt Protein Name	Alpha-actinin-1
UniProt Gene Name	ACTN1
UniProt Entry Name	ACTN1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/actn1-antibody-immunohistochemistry-western-blot-elisa/23579>