

Rabbit ACTN2 Polyclonal Antibody | anti-ACTN2 antibody

ACTN2 antibody - N-terminal region

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA198913	Rabbit	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat	Western Blot, Immunohistochemistry

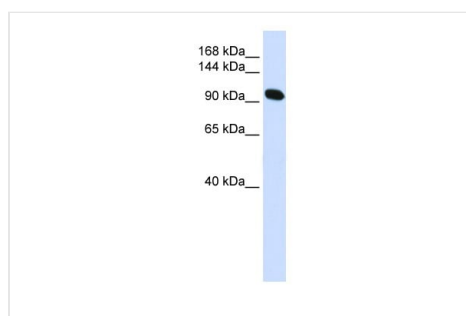
PRODUCT SYNONYMS

ACTN2; Polyclonal Antibody; ACTN2 antibody - N-terminal region; anti-ACTN2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat
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 region: NQ IEPGVQYNYV YDEDEYMIQE EEWDRLDLLD PAWEKQQRKT FTAWCNSH
Sequence Length	894
Applicable Applications for anti-ACTN2 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Homology	Cow: 86%; Dog: 93%; Guinea Pig: 100%; Horse: 86%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human ACTN2
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

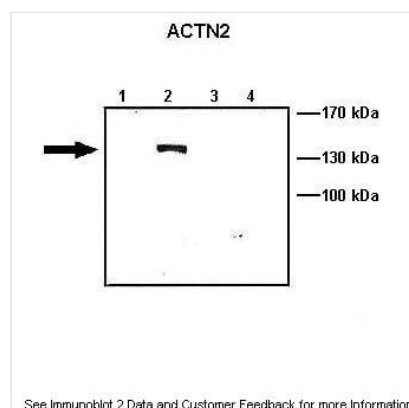


WB (Western Blot)

WB Suggested Anti-ACTN2 Antibody Titration: 0.2-1 ug/ml

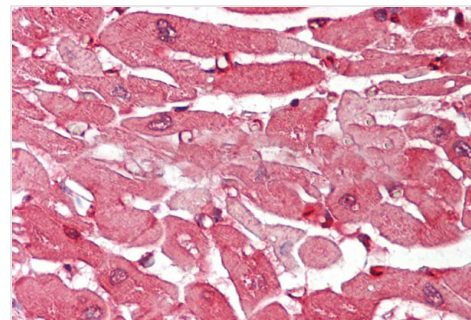
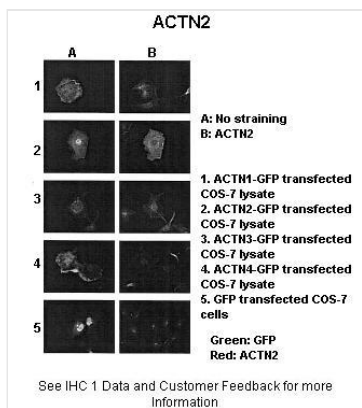
ELISA Titer: 1:312500

Positive Control: Human Muscle



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 Dilution: 1: 5000
Gene Name: ACTN2
Submitted by: Johannes W. Hell, University of California



IHC (Immunohistochemistry)

Rabbit Anti-ACTN2 antibody
Formalin Fixed Paraffin Embedded Tissue: Human Adult Heart
Observed Staining: Cytoplasm in hepatocytes
Primary Antibody Concentration: 1:600
Secondary Antibody: Donkey anti-Rabbit-Cy3
Secondary Antibody Concentration: 1:200
Magnification: 20X
Exposure Time: 0.5 - 2.0 sec

IHC (Immunohistochemistry)

Sample Type :ACTNX-GFP transfected COS-7 cells
Primary Antibody Dilution :1:1000
Secondary Antibody :Anti-rabbit-Alexa-Fluor 568
Secondary Antibody Dilution :1:100
Color/Signal Descriptions :Green: GFP Red: ACTN2
Gene Name :ACTN2
Submitted 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-ACTN2 antibody

This is a rabbit polyclonal antibody against ACTN2. It was validated on Western Blot using a cell lysate as a positive control.

Target Description: The alpha-actinins are a multigene family of four actin-binding proteins related to dystrophin. The two skeletal muscle isoforms of alpha-actinin (ACTN2 and ACTN3) are major structural components of the Z-line involved in anchoring the actin-containing thin filaments. In humans, ACTN2 is expressed in all muscle fibres, while ACTN3 expression is restricted to a subset of type 2 fibres. Murine Actn2 and Actn3 are differentially expressed, spatially and temporally, during embryonic development and, in contrast to humans, alpha-actinin-2 expression does not completely overlap alpha-actinin-3 in postnatal skeletal muscle, suggesting independent function. 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 muscle-specific, alpha actinin isoform that is expressed in both skeletal and cardiac muscles. 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.
PRIMARYREFSEQ_SPAN PRIMARY_IDENTIFIER PRIMARY_SPAN COMP 1-39 DC378038.1 17-55 40-2961 BC051770.1 1-2922 2962-3458 CB153006.1 65-561 3459-3637 AL359185.25 28531-28709 3638-4210 M86406.1 3609-4181 4211-4528 AL359185.25 29283-29600

Product Categories/Family for anti-ACTN2 antibody

[Polyclonal](#); [Developmental Biology](#); [Membrane & Traffic](#); [DNA/RNA/Protein Interactions](#); [Tissue Specific & Cell Marker](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4501893
NCBI GeneID	88
NCBI Accession #	NP_001094
NCBI GenBank Nucleotide #	NM_001103
UniProt Accession #	P35609
Molecular Weight	104kDa
NCBI Official Full Name	alpha-actinin-2 isoform 1
NCBI Official Synonym Full Names	actinin alpha 2

NCBI Official Symbol	ACTN2
NCBI Official Synonym Symbols	CMH23; CMD1AA
NCBI Protein Information	alpha-actinin-2
UniProt Protein Name	Alpha-actinin-2
UniProt Gene Name	ACTN2
UniProt Entry Name	ACTN2_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/actn2-antibody-western-blot-immunohistochemistry-elisa/198913>