

Rabbit ACTN2 Polyclonal Antibody | anti-ACTN2 antibody

ACTN2 Antibody (C-term)

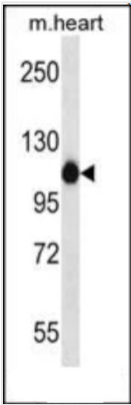
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288128	Rabbit	Mouse (Predicted Reactivity: Bovine)	ELISA, Western Blot

PRODUCT SYNONYMS

ACTN2; Polyclonal Antibody; ACTN2 Antibody (C-term); Alpha-actinin-2; Alpha-actinin skeletal muscle isoform 2; F-actin cross-linking protein; anti-ACTN2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse (Predicted Reactivity: Bovine)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This ACTN2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 751-779 amino acids from the C-terminal region of human ACTN2.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	751-779
Sequence Length	894
Applicable Applications for anti-ACTN2 antibody	ELISA, WB (Western Blot)
Function	F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein.
Cellular Location	Cytoplasm, myofibril, sarcomere, Z line. Note=Colocalizes with MYOZ1 and FLNC at the Z-lines of skeletal muscle
Tissue Location	Expressed in both skeletal and cardiac muscle.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
ACTN2 Antibody (C-term) western blot analysis in mouse heart tissue lysates (35ug/lane). This demonstrates the ACTN2 antibody detected the ACTN2 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-ACTN2 antibody	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.
Product Categories/Family for anti-ACTN2 antibody	Cardiovascular; Signal Transduction
References	Saus, E., et al. J Psychiatr Res 44(14):971-978(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) : Zimmerman, R.S., et al. Genet. Med. 12(5):268-278(2010) Joslyn, G., et al. Alcohol. Clin. Exp. Res. 34(5):800-812(2010) Chiu, C., et al. J. Am. Coll. Cardiol. 55(11):1127-1135(2010)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4501893
NCBI GeneID	88
NCBI Accession #	NP_001094.1
NCBI GenBank Nucleotide #	NM_001103.3
UniProt Accession #	P35609; Q86TF4; Q86TI8; B1ANE4; B2RCS5
Molecular Weight	103854
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

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://www.aaabiotech.com/polyclonal/actn2-antibody-western-blot-elisa/288128>