

Rabbit Actinin alpha-2/3 Polyclonal Antibody | anti-ACTN2 antibody

Actinin alpha-2/3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323869	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

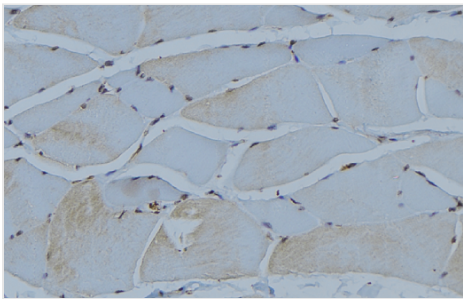
PRODUCT SYNONYMS

Actinin alpha-2/3; Polyclonal Antibody; Actinin alpha-2/3 Antibody; Actin binding protein; Actinin alpha 2; ACTN 2; ACTN2; ACTN2_HUMAN; Alpha actinin 2; Alpha actinin skeletal muscle; Alpha actinin skeletal muscle isoform 2; Alpha-actinin skeletal muscle isoform 2; Alpha-actinin-2; CMD1AA; F actin cross linking protein; F-actin cross-linking protein; Actinin alpha 3; actinin; alpha; ACTN 3; ACTN3; ACTN3_HUMAN; Alpha actinin skeletal muscle isoform 3; Alpha-Actinin 3; Alpha-actinin skeletal muscle isoform 3; Alpha-actinin-3; MGC117002; MGC117005; OTTHUMP00000219049; OTTHUMP00000219054; anti-ACTN2 antibody

PRODUCT SPECIFICATIONS

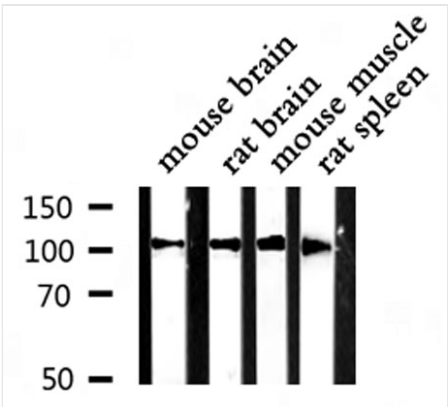
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Actinin alpha-2/3 antibody detects endogenous levels of total Actinin alpha-2/3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	894
Applicable Applications for anti-ACTN2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm > Myofibril > Sarcomere > Z Line. Colocalizes with MYOZ1 and FLNC at the Z-lines of skeletal muscle.
Tissue Specificity	Expressed in both skeletal and cardiac muscle.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES

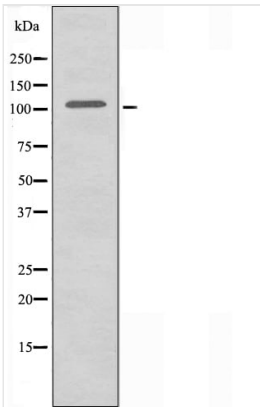


IF (Immunofluorescence)
AAA323869 staining HepG2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

IHC (Immunohistochemisry)
AAA323869 at 1/100 staining Mouse muscle tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of Actin alpha-2/3 expression in various lysates



WB (Western Blot)
Western blot analysis of extracts from HeLa cells using Actin alpha-2/3 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-ACTN2 antibody	Function: F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein.
	Subunit Structure: Homodimer; antiparallel. Also forms heterodimers with ACTN3. Interacts with ADAM12, MYOZ1, MYOZ2 and MYOZ3. Interacts via its C-terminal region with the LDB3 PDZ domain. Interacts with XIRP2. Interacts with DST isoform 1 (via N-terminus). Interacts with PARVB. Interacts with SYNPO2.
	Post-translational Modifications: Ubiquitinated by FBXL22, leading to proteasomal degradation.
	Similarity: Belongs to the alpha-actinin family.

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	Observed: 103 kD Predicted: 104 kDa
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://stage.aaabiotech.com/polyclonal/actinin-alpha-2-3-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/323869>