

Rabbit ACTA1/alpha-actin Polyclonal Antibody | anti-ACTA1 antibody

ACTA1/alpha-actin Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290945	Rabbit	Human Predicted: Xenopus, Bovine, Chicken, Mouse, Rabbit, Rat, Pig	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, Western Blot

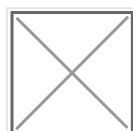
PRODUCT SYNONYMS

ACTA1/alpha-actin; Polyclonal Antibody; ACTA1/alpha-actin Antibody (C-term); ACTA1; ACTA; Actin; alpha skeletal muscle; Alpha-actin-1; anti-ACTA1 antibody

PRODUCT SPECIFICATIONS

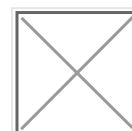
Host	Rabbit
Reactivity	Human Predicted: Xenopus, Bovine, Chicken, Mouse, Rabbit, Rat, Pig
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ACTA1/Alpha-actin antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 346-375 amino acids from the C-terminal region of human ACTA1/Alpha-actin.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Length	377
Applicable Applications for anti-ACTA1 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Antigen Source	Human
Antigen Region	346-375
Antigen Type	Synthetic Peptide
Function	Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.
Cellular Location	Cytoplasm, cytoskeleton.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

ACTA1/alpha-actin Antibody (C-term) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



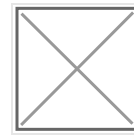
IF (Immunofluorescence)

Confocal immunofluorescent analysis of ACTA1/alpha-actin Antibody (C-term) with A549 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



IHC (Immunohistochemistry)

ACTA1/alpha-actin Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of ACTA1/alpha-actin Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)

Western blot analysis of lysates from human placenta tissue lysate, RD cell line (from left to right), using ACTA1/alpha-actin Antibody (C-term). It was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-ACTA1 antibody	Description: Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab) Background: The product encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This actin is an alpha actin that is found in skeletal muscle. Mutations in this gene cause nemaline myopathy type 3, congenital myopathy with excess of thin myofilaments, congenital myopathy with cores, and congenital myopathy with fiber-type disproportion, diseases that lead to muscle fiber defects.
Product Categories/Family for anti-ACTA1 antibody	Stem Cells
References	Kim, E.Y., et al. Am. J. Physiol. Renal Physiol. 299 (3), F594-F604 (2010). Haigh, S.E., et al. Neuromuscul. Disord. 20(6):363-374(2010). Yu, G., et al. J Clin Neurosci 17(6):766-769(2010). Yu, C.H., et al. PLoS ONE 5 (7), E11878 (2010). Licastro, F., et al. Curr. Pharm. Des. 16(7):783-788(2010).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4501881
NCBI GeneID	58
NCBI Accession #	NP_001091.1
NCBI GenBank Nucleotide #	NP_001091.1
UniProt Accession #	P68133 ; P68136 ; P68135 ; P68137 ; P68134 ; P68139 ; P68138 ; P04751 ; P68035 ; P68033 ; P68032 ; P68034 ; Q3ZC07 ; P62738 ; P62740 ; P62737 ; P62736 ; P08023 ; P62739 ; P04752 ; P10995
Molecular Weight	Calculated MW: H=42 M=42 Rat=42 KDa
NCBI Official Full Name	actin, alpha skeletal muscle
NCBI Official Synonym Full Names	actin alpha 1, skeletal muscle
NCBI Official Symbol	ACTA1
NCBI Official Synonym Symbols	ACTA; ASMA; CFTD; MPFD; NEM1; NEM2; NEM3; SHPM; CFTD1; CFTDM
NCBI Protein Information	actin, alpha skeletal muscle
UniProt Protein Name	Actin, alpha skeletal muscle
UniProt Gene Name	ACTA1
UniProt Synonym Gene Names	ACTA
UniProt Entry Name	ACTS_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/acta1-alpha-actin-antibody-flow-cytometry-immunofluorescence-immunohistochemistry-western-blot-elisa/290945>