

Mouse ACTA1 / ASMA Monoclonal Antibody | anti-ACTA1 antibody

Mouse Monoclonal [clone 3B3] (IgG1) to Human ACTA1 / ASMA

CATALOG # AAA51859	HOST Mouse	REACTIVITY Goat, Human, Pig, Rabbit, Rat	APPLICATIONS ELISA, Western Blot, Immunohistochemistry, Immunohistochemistry
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PRODUCT SYNONYMS

ACTA1 / ASMA; Monoclonal Antibody; Mouse Monoclonal [clone 3B3] (IgG1) to Human ACTA1 / ASMA; Anti-ACTA1 / ASMA Antibody (clone 3B3) IHC-plus; ACTA1; ACTA; Actin; alpha skeletal muscle; Alpha-actin-1; CFTD; CFTD1; CFTDM; MPFD; NEM1; NEM2; ASMA; NEM3; Human ACTA1; anti-ACTA1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Goat, Human, Pig, Rabbit, Rat
Clonality	Monoclonal
Isotype	IgG1
Clone Number	3B3
Specificity	Highly specific for alpha- skeletal actin, and does not cross react with other actin isoforms. The epitope recognized by 3B3 is highly conserved. Therefore the antibody cross-reacts with many other species.
Purity/Purification	Purified
Form/Format	PBS containing 0.09% sodium azide
Concentration	1 mg/ml (varies by lot)
Sequence Length	377
Applicable Applications for anti-ACTA1 antibody	ELISA, WB (Western Blot), IHC (Immunohistochemistry), IHC (Immunohistochemistry)
Target Species	Human
Immunogen Description	Peptide comprising the N-terminal nonapeptide of alpha-skeletal actin with an acetylated N-terminus (Ac-DEDETTALVC-COOH) coupled to keyhole limpet hemocyanin through the cysteine residue
Preparation and Storage	Long term: -20 degree C; Short term: +4 degree C. Avoid repeat freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Paraffin sections of striated muscle (below) from human tongue immunostained with 3B3 (1:250)



IHC (Immunohistochemistry)

Paraffin sections of human striated skeletal muscle immunostained with 3B3 (1:250)



IHC (Immunohistochemistry)

Anti-ACTA1 / ASMA antibody IHC of human skeletal muscle. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 10 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-ACTA1 antibody

Actin alpha 1 which is expressed in skeletal muscle is one of six different actin isoforms which have been identified. Actins are highly conserved proteins that are involved in cell motility, structure and integrity. Alpha actins are a major constituent of the contractile apparatus. 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4501881
NCBI GeneID	58
NCBI Accession #	NP_001091.1
NCBI GenBank Nucleotide #	NM_001100.3
UniProt Accession #	P68133; P02568; P99020; Q5T8M9
Molecular Weight	42,051 Da
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; CFTD1; CFTDM
NCBI Protein Information	actin, alpha skeletal muscle; nemaline myopathy type 3
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.

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

Online datasheet: <https://stage.aaabiotech.com/monoclonal/acta1-asma-antibody-clone-3b3-western-blot-immunohistochemistry-immunohistochemistry-elisa/51859>