

Mouse anti-Human Actin Monoclonal Antibody | anti-ACTA1 antibody

Actin

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48281	Mouse	Human	Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

Actin; Monoclonal Antibody; ACTA; actin; alpha 1; skeletal muscle; alpha skeletal muscle actin; alpha skeletal muscle; alpha-actin-1; ASMA; CFTD; CFTDM; MPFD; NEM1; NEM2; NEM3; anti-ACTA1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a kappa
Clone Number	AT2F5
Form/Format	Liquid; In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	377
Applicable Applications for anti-ACTA1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Immunogen	Recombinant human Actin (13-377aa) purified from E Coli.
Conjugation	Unconjugated
Preparation and Storage	Can be stored at 2 degree C to 8 degree C for 1 week. For long term storage, aliquot and store at -20 degree C to -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



WB (Western Blot)

The mouse tissue and cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Actin antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.; Lane 1.: Mouse Lung Tissue lysate; Lane 2.: HeLa cell lysate; Lane 3.: A549 cell lysate; Lane 4.: A431 cell lysate; Lane 5.: Raji cell lysate;



ICC (Immunocytochemistry)

ICC/IF analysis of Actin in HeLa cells. The cell was stained (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

ADDITIONAL INFORMATION

Related Product Information for anti-ACTA1 antibody

ACTA1 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. Defects in this gene cause aortic aneurysm familial thoracic type 6. Multiple alternatively spliced variants, encoding the same protein, have been identified.

Product Categories/Family for anti-ACTA1 antibody	Cancer; Cardiovascular; Epigenetics and Nuclear Signaling; Other; Stem cell; Tags & Cell Markers
References	Moreno CAM, et al., (2017) Pediatr. Neurol. 75: 11-16. Loumaye A,et al., (2017) J Cachexia Sarcopenia Muscle 8 (5): 768-777.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4501881
NCBI GeneID	58
NCBI Accession #	NP_001091.1
NCBI GenBank Nucleotide #	NP_001091.1
UniProt Accession #	P68133
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/monoclonal/actin-antibody-clone-at2f5-immunofluorescence-immunocytochemistry-western-blot-elisa/48281>