

Mouse anti-Human ACTA2 Monoclonal Antibody | anti-ACTA2 antibody

ACTA2 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48166	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

ACTA2; Monoclonal Antibody; ACTA2 antibody; Actin aortic smooth muscle; Actin; aortic smooth muscle; AAT6; ACTSA; MYMY5; anti-ACTA2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, k
Clone Number	AT132D3
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol
Concentration	1 mg/ml (varies by lot)
Sequence Length	377
Applicable Applications for anti-ACTA2 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human ACTA2 (3-377aa) purified from E. coli
Clone Note	Anti-human ACTA2 mAb, clone AT132D3, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human ACTA2 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of ACTA2 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ACTA2 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ACTA2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: HepG2 cell lysate Lane 2.: SW480 cell lysate Lane 3.: HeLa cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-ACTA2 antibody	Alpha-actin-2 also known as actin, aortic smooth muscle or alpha smooth muscle actin (alpha-SMA, SMactin, alpha-SM-actin, ASMA). Actin proteins are major components of the eukaryotic cytoskeleton. At least six vertebrate actin isoforms have been identified. The cytoplasmic beta- and gamma-actin proteins are referred to as non-muscle actin proteins as they are predominantly expressed in non-muscle cells where they control cell structure and motility. Actin has major functions. Firstly, F-actin polymers form microfilaments - polar intracellular tracks for kinesin motor proteins, allowing the transport of vesicles, organelles and other cargo. Actin is a component of the cytoskeleton and links to alpha-actinin, E-cadherin and beta-catenin at adherens junctions. actin has a role in cell motility through polymerization and depolymerization of fibrils.
Product Categories/Family for anti-ACTA2 antibody	Cytoskeleton; Actin & Myosin Related
References	Herman IM. et al. (1993) Curr Opin Cell Biol. 5 (1): 48-55.; Guo DC., et al. (2009) Am J Hum Genet. 84 (5): 617-627.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4501883
NCBI GeneID	59
NCBI Accession #	NP_001604
NCBI GenBank Nucleotide #	NM_001613.3
UniProt Accession #	P62736; P03996; P04108; Q6FI19; B2R8A4
Molecular Weight	42,009 Da
NCBI Official Full Name	actin, aortic smooth muscle
NCBI Official Synonym Full Names	actin, alpha 2, smooth muscle, aorta
NCBI Official Symbol	ACTA2
NCBI Official Synonym Symbols	ACTSA
NCBI Protein Information	actin, aortic smooth muscle
UniProt Protein Name	Actin, aortic smooth muscle
UniProt Gene Name	ACTA2
UniProt Synonym Gene Names	ACTSA; ACTVS

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/acta2-antibody-clone-at132d3-immunofluorescence-immunocytochemistry-flow-cytometry-western-blot-elisa/48166>