

Mouse anti-Human Actin, alpha, Smooth Muscle Monoclonal Antibody | anti-ACTA2 antibody

Actin, alpha, Smooth Muscle (PE)

CATALOG # AAA14733	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
------------------------------	----------------------	----------------------------	---

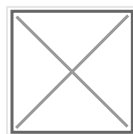
PRODUCT SYNONYMS

Actin; alpha; Smooth Muscle; Monoclonal Antibody; Smooth Muscle (PE); Anti -Actin; anti-ACTA2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	9H15 (Formally known as: 1A4)
Specificity	Recognizes human alpha-Smooth Muscle Actin. Species Crossreactivity: Rabbit, Mouse, Rat
Purity/Purification	Purified by Protein A affinity chromatography from hybridoma culture supernatant.
Form/Format	Supplied as a liquid in saline, 0.5% BSA, 0.09% sodium azide. Labeled with R-Phycoerythrin (PE).
Concentration	0.025mg/mL (varies by lot)
Applicable Applications for anti-ACTA2 antibody	FCM/FACS (Flow Cytometry)
Application Notes	Suitable for use in Flow Cytometry. Other applications not tested. Flow Cytometry (Intercellular): Neat. 10ul labels up to 1x10e6 cells from human peripheral blood monocytes. Optimal dilutions to be determined by the researcher.
Immunogen	Synthetic decapeptide corresponding to the N-terminal residues of human alpha-Smooth Muscle Actin.
Hybridoma	Fusion of a mouse myeloma with B cells obtained from a rat immunized with a synthetic decapeptide from the N-terminal of Alpha-Smooth Muscle Actin.
Preparation and Storage	Store product at 4°C in the dark. DO NOT FREEZE! Stable at 4°C for 12 months after receipt as an undiluted liquid. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.

IMAGES



Application Data

Flow Cytometry analysis of intracellular staining in mouse fibroblast cell line L929 using AAA14733 (filled histogram) or with isotype control (open histogram).

ADDITIONAL INFORMATION

Related Product Information for anti-ACTA2 antibody	Actins are highly conserved proteins expressed in all eucaryotic cells. Actin filaments form part of the cytoskeleton and play essential roles in regulating cell shape and movement. Six distinct actin isoforms have been identified in mammalian cells. Each is encoded by a separated gene and is expressed in a developmentally regulated and tissue-specific manner, alpha and beta cytoplasmic actins are expressed in a wide variety of cells; whereas, expression of alpha skeletal, alpha cardiac, alpha vascular, and gamma enteric actins are more restricted to specialized muscle cell type. Smooth muscle alpha actin is of further interest because it is one of a few genes whose expression is relatively restricted to vascular smooth muscle cells. Further more, expression of smooth muscle alpha actin is regulated by hormones, cell proliferation, and altered by pathological conditions including oncogenic transformation and atherosclerosis.
Product Categories/Family for anti-ACTA2 antibody	Antibodies; Abs to Actin Related Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	119570540
NCBI GeneID	59
UniProt Accession #	P62736; P03996; P04108; Q6FI19; B2R8A4
NCBI Official Full Name	actin, alpha 2, smooth muscle, aorta, isoform CRA_a
NCBI Official Synonym Full Names	actin, alpha 2, smooth muscle, aorta
NCBI Official Symbol	ACTA2
NCBI Official Synonym Symbols	AAT6; ACTSA; MYMY5
NCBI Protein Information	actin, aortic smooth muscle; alpha-cardiac actin; cell growth-inhibiting gene 46 protein
UniProt Protein Name	Actin, aortic smooth muscle
UniProt Gene Name	ACTA2
UniProt Synonym Gene Names	ACTSA; ACTVS
UniProt Entry Name	ACTA_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/actin-alpha-smooth-muscle-antibody-clone-9h15-formally-known-as-1a4-flow-cytometry-elisa/14733>