

Mouse Actin Monoclonal Antibody | anti-ACTA2 antibody

Actin, Smooth Muscle (Leiomyosarcoma Marker) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62660	Mouse	Human, Baboon, Monkey, Cow, Pig, Sheep, Goat, Cat, Dog, Rabbit, Mouse, Rat, Guinea Pig, Chicken	Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

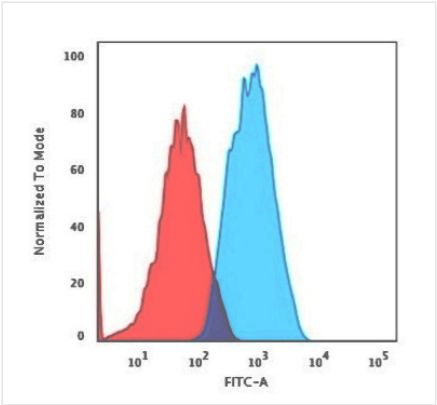
PRODUCT SYNONYMS

Actin; Monoclonal Antibody; Smooth Muscle (Leiomyosarcoma Marker) Mouse Monoclonal Antibody; ACTA2; Actin Alpha 2 Smooth Muscle Aorta; Actin Aortic Smooth Muscle; Actin Vascular Smooth Muscle; ACTSA; ACTVS; Alpha 2 Actin; Alpha Actin 2; Alpha Cardiac Actin; Alpha Smooth Muscle; Alpha-actin-2; Aortic Smooth Muscle; ASMA; Cell Growth-inhibiting Gene 46 Protein; Growth Inhibiting Gene 46; anti-ACTA2 antibody

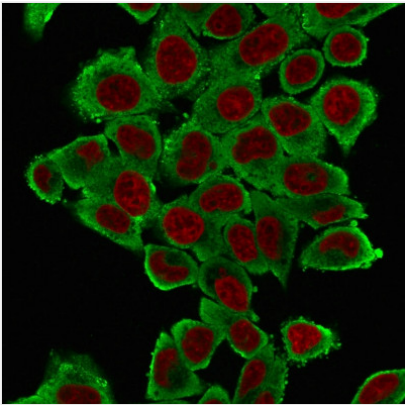
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Baboon, Monkey, Cow, Pig, Sheep, Goat, Cat, Dog, Rabbit, Mouse, Rat, Guinea Pig, Chicken
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	1A4; same as asm-1
Specificity	Actin is a major component of the cytoskeleton and is present in most cell types. This MAb is highly specific to actin from smooth muscles. Its epitope lies in the first four N-terminal amino acids. This MAb does not stain cardiac or skeletal muscle; however, it does stain myofibroblasts and myoepithelial cells. This antibody could be used together with anti-muscle specific actin and myogenin in making of smooth muscle and skeletal muscle tumors. In most cases of rhabdomyosarcoma, this antibody yields negative results whereas anti-muscle specific actin and myogenin are positive. Leiomyosarcomas are positive only with anti-muscle specific actin and anti-smooth muscle actin and are negative with anti-myogenin.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	377
Applicable Applications for anti-ACTA2 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Cellular Localization	Cytoplasmic
Immunogen	N-Terminal decapeptide of alpha smooth muscle isoform of actin and conjugated to KLH.
Hu-Chromosome Location	10q23.31
Positive Control	HeLa cells (FACS/IF). Blood vessels in all tissues, smooth muscle or leiomyosarcoma (IHC)
Preparation and Storage	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Non-hazardous. No MSDS required.

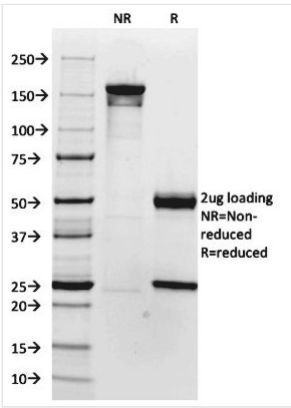
IMAGES



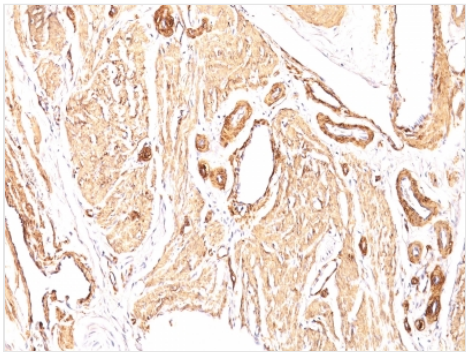
FCM/FACS (Flow Cytometry)
Flow Cytometric Analysis of Human HeLa cells using Smooth Muscle Actin Mouse Monoclonal Antibody (1A4) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype control (Red).



IF (Immunofluorescence)
Immunofluorescence Analysis of HeLa cells labeling Smooth Muscle Actin with Smooth Muscle Actin Mouse Monoclonal Antibody (1A4) followed by Goat anti-Mouse IgG-CF488(Green). The nuclear counterstain is NucSpot (Red).



SDS-PAGE
SDS-PAGE Analysis Purified Smooth Muscle Actin Mouse Monoclonal Antibody (1A4). Confirmation of Integrity and Purity of Antibody.



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Leiomyosarcoma stained with Smooth Muscle Actin Monoclonal Antibody (1A4).

ADDITIONAL INFORMATION

References	Skalli O et. al. Journal of Cell Biology, 1986, 103:2787-96.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	213688375
NCBI GeneID	59
NCBI Accession #	NP_001135417.1
NCBI GenBank Nucleotide #	NM_001141945.2
UniProt Accession #	P62736; P03996; P04108; Q6FI19; B2R8A4
Molecular Weight	42kDa
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	AAT6; ACTSA; MYMY5
NCBI Protein Information	actin, aortic smooth muscle

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/actin-antibody-clone-1a4-same-as-asm-1-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/62660>