

Mouse Actin Monoclonal Antibody | anti-ACTA1 antibody

Actin, Muscle Specific (Muscle Cell Marker) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA13822	Mouse	Human, Rabbit, Rat	Flow Cytometry, Functional Assay, Immunofluorescence, Western Blot, Immunohistochemistry

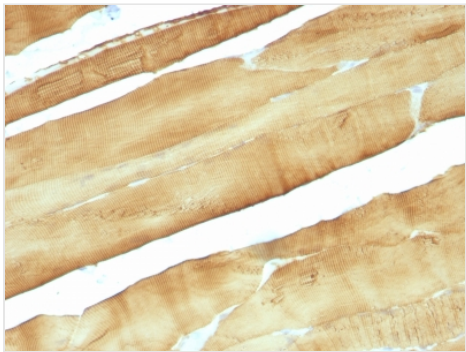
PRODUCT SYNONYMS

Actin; Monoclonal Antibody; Muscle Specific (Muscle Cell Marker) Mouse Monoclonal Antibody; ACTA; ACTA1; ACTA2; ACTC1; ACTSA; Alpha-2 actin; alpha skeletal muscle; Alpha-actin-1; Cardiac muscle alpha actin-1; Skeletal muscle alpha actin-1; anti-ACTA1 antibody

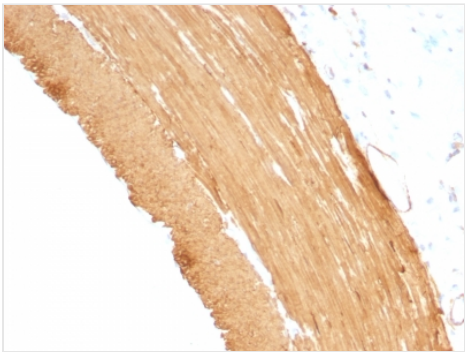
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Rabbit, Rat
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	MSA/953
Specificity	This antibody recognizes actin of skeletal, cardiac, and smooth muscle cells. It is not reactive with other mesenchymal cells except for myoepithelium. Actin can be resolved on the basis of its isoelectric points into three distinctive components: alpha, beta, and gamma in order of increasing isoelectric point. Anti-muscle specific actin recognizes alpha and gamma isotypes of all muscle groups. Non-muscle cells such as vascular endothelial cells and connective tissues are non-reactive. Also, neoplastic cells of non-muscle-derived tissue such as carcinomas, melanomas, and lymphomas are negative. It stains tumors of smooth muscle (leiomyomas and leiomyosarcomas) as well as skeletal muscle (rhabdomyomas and rhabdomyosarcomas).
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-ACTA1 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	Flow Cytometry (0.5-1ug/million cells in 0.1ml) Immunofluorescence (0.5-1ug/ml) Western Blot (0.5-1.0ug/ml) Immunohistochemistry (Formalin-fixed) (0.25-0.5ug/ml for 30 minutes at RT) (Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)
Cellular Localization	Cytoplasmic
Immunogen	Synthetic peptide common among human muscle actins
Hu-Chromosome Location	1q42.13 (ACTA1); 10q23.3 (ACTA2); 2p13.1 (ACTG2)
Positive Control	Muscle or sarcoma
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

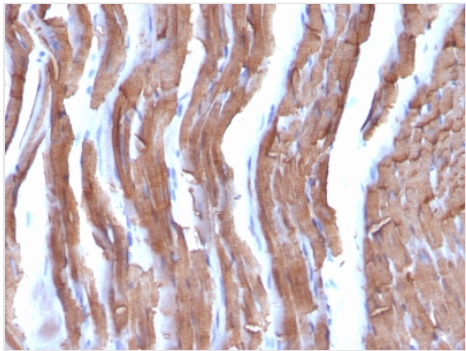
IMAGES



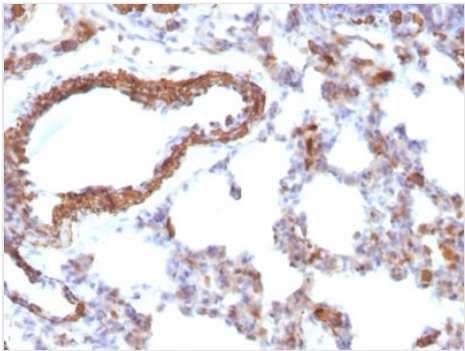
IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded Rat Skeletal Muscle stained with Muscle Specific Actin Monoclonal Antibody (MSA/953)



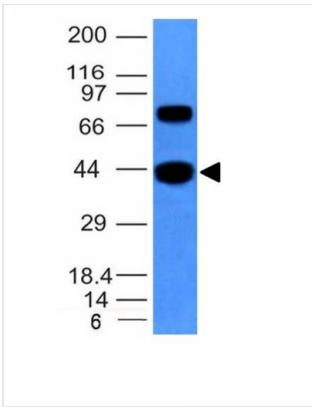
IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded Rat Stomach stained with Muscle Specific Actin Monoclonal Antibody (MSA/953)



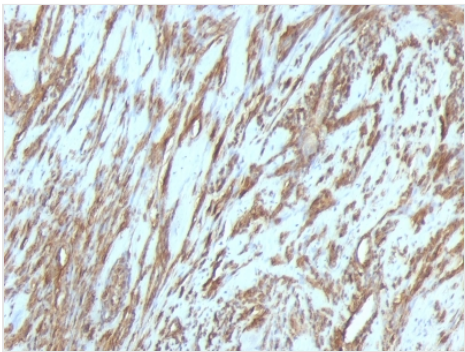
IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded Rat Heart stained with Muscle Specific Actin Monoclonal Antibody (MSA/953)



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded Rat Lung stained with Muscle Specific Actin Monoclonal Antibody (MSA/953)



WB (Western Blot)
Western Blot of hSKM Cell Lysate using Muscle Specific Actin Monoclonal Antibody (MSA/953)



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Leiomyosarcoma stained with Muscle Specific Actin Monoclonal Antibody (MSA/953)

ADDITIONAL INFORMATION

References	Barkalow, K. and Hartwig, J.H. 1995. Actin cytoskeleton. Setting the pace of cell movement. Curr. Biol. 5: 1000-1002.
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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	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	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-msa-953-flow-cytometry-immunofluorescence-western-blot-immunohistochemistry-elisa/13822>