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

Alpha Smooth Muscle Actin Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA311894	**Mouse**	**Human, Mouse**	**Flow Cytometry, Functional Assay, Immunohistochemistry, Immunocytochemistry, Western Blot**

PRODUCT SYNONYMS

Alpha Smooth Muscle Actin; Monoclonal Antibody; Alpha Smooth Muscle Actin Antibody; a actin antibody; AAT6 antibody; ACTA_HUMAN antibody; ACTA2 antibody; Actin alpha 2 smooth muscle aorta antibody; Actin aortic smooth muscle antibody; Actin; aortic smooth muscle antibody; ACTSA antibody; ACTVS antibody; Alpha 2 actin antibody; Alpha actin 2 antibody; Alpha cardiac actin antibody; Alpha-actin-2 antibody; Cell growth inhibiting gene 46 protein antibody; Cell growth-inhibiting gene 46 protein antibody; GIG46 antibody; Growth inhibiting gene 46 antibody; MYMY5 antibody; anti-ACTA2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse
Clonality	Monoclonal
Clone Number	A5-E6
Purity/Purification	ProG affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-ACTA2 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	This antibody is produced by immunizing mice with a synthetic peptide (KLH-coupled) corresponding to a region of alpha smooth muscle Actin.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.

IMAGES



ICC (Immunocytochemistry)
ICC staining alpha smooth muscle Actin (red) in A549 cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



IHC (Immunohiostchemistry)
Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-alpha smooth muscle Actin antibody. Counter stained with hematoxylin.



WB (Western Blot)
Western blot analysis of alpha smooth muscle Actin on NIH-3T3 (1), human heart (2) and mouse heart (3) using anti-alpha smooth muscle Actin antibody at 1/1, 000 dilution.

ADDITIONAL INFORMATION

Related Product Information for anti-ACTA2 antibody	Actins are highly conserved proteins involved in cell motility, structure and integrity. Actin has been found to be expressed in at least six isomeric forms. It is expressed in heart and skeletal striated muscle tissue, and in certain smooth muscle tissues, regulating contractile potentials for these cells. It is also expressed in the cytoplasm of non-muscle cells, functioning to control cell structure and motility. 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. 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	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	119570540
NCBI GeneID	59
UniProt Accession #	P62736; P03996; P04108; Q6FI19; B2R8A4
Molecular Weight	42,009 Da
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.

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