

Rabbit alpha-Smooth Muscle Actin (ACTA2) Monoclonal Antibody | anti-ACTA2 antibody

alpha-Smooth Muscle Actin (ACTA2) Rabbit mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA281870	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot

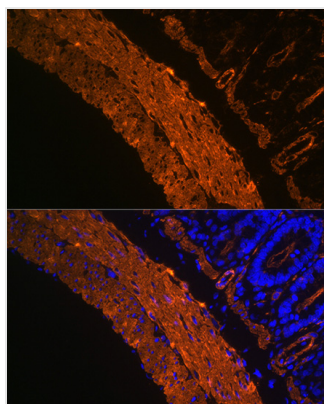
PRODUCT SYNONYMS

alpha-Smooth Muscle Actin (ACTA2); Monoclonal Antibody; alpha-Smooth Muscle Actin (ACTA2) Rabbit mAb; AAT6; ACTSA; MYMY5; ACTA2; actin; anti-ACTA2 antibody

PRODUCT SPECIFICATIONS

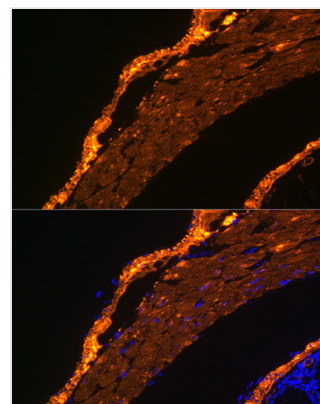
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.
Applicable Applications for anti-ACTA2 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human alpha-Smooth Muscle Actin (ACTA2)
Cellular Location	Cytoplasm, cytoskeleton
Positive Samples	RD, Mouse large intestine, Mouse heart, Mouse brain, Rat lung, Rat heart
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



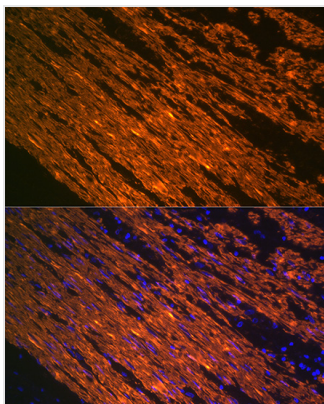
IF (Immunofluorescence)

Immunofluorescence analysis of rat colon using α -Smooth Muscle Actin (ACTA2) Rabbit mAb at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



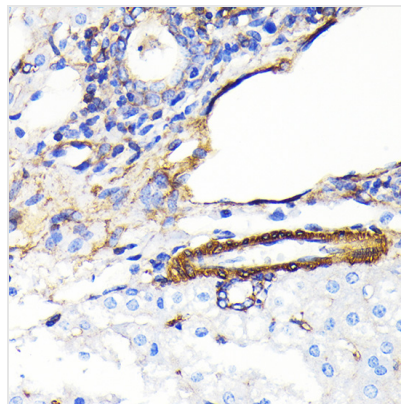
IF (Immunofluorescence)

Immunofluorescence analysis of mouse colon using α -Smooth Muscle Actin (ACTA2) Rabbit mAb at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



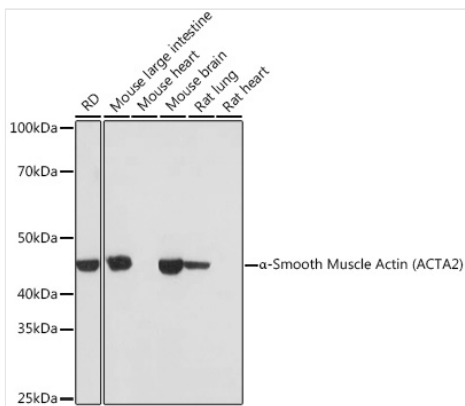
IF (Immunofluorescence)

Immunofluorescence analysis of smooth muscle of human colon carcinoma using $\hat{\text{I}}\pm$ -Smooth Muscle Actin (ACTA2) Rabbit mAb at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded mouse liver using $\hat{\text{I}}\pm$ -Smooth Muscle Actin (ACTA2) Rabbit mAb at dilution of 1:100 (40x lens).



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using $\hat{\text{I}}\pm$ -Smooth Muscle Actin (ACTA2) antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.

ADDITIONAL INFORMATION

Related Product Information for anti-ACTA2 antibody

Background: The protein encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This actin is an alpha actin that is found in skeletal muscle. Defects in this gene cause aortic aneurysm familial thoracic type 6. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Nov 2008]

Product Categories/Family for anti-ACTA2 antibody

Cell Biology & Developmental Biology; Cytoskeleton; Microfilaments; Research; Cell Biology & Developmental Biology; Cytoskeleton; Actins; Research; Cell Biology & Developmental Biology; Death Receptor Signaling Pathway; Research; Neuroscience; Neurodegene

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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Online datasheet: <https://stage.aaabiotech.com/monoclonal/alpha-smooth-muscle-actin-acta2-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/281870>