

Mouse alpha-SMA Monoclonal Antibody | anti-alpha-SMA antibody

alpha-SMA Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31477	Mouse	Human, Mouse, Rat	Western Blot, Immunofluorescence, Immunohistochemistry

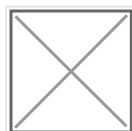
PRODUCT SYNONYMS

alpha-SMA; Monoclonal Antibody; alpha-SMA Monoclonal Antibody; Mouse Anti-alpha-SMA Monoclonal Antibody; anti-alpha-SMA antibody

PRODUCT SPECIFICATIONS

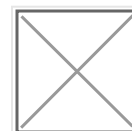
Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	Mouse IgG1
Form/Format	Liquid; PBS, pH 7.4, Containing 0.02% Sodium Azide As Preservative and 50% Glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	377
Applicable Applications for anti-alpha-SMA antibody	WB (Western Blot), IF (Immunofluorescence), IHC (Immunohistochemistry)
Application Notes	Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB: 1:10000-1:100000 IF: 1:100-1:200 IHC-P: 1:1000-1:2000
Preparation and Storage	Stable for one year at -20°C from date of receipt. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)

Fig.7. Immunohistochemical analysis of paraffin-embedded rat kidney tissue.1, alpha-SMA Monoclonal Antibody was diluted at 1:200 (4 degree C, overnight).2, Sodium citrate pH 6.0 was used for antibody retrieval (>98 degree C, 20min).3, secondary antibody was diluted at 1:200 (room temperature, 30min).Negative control was used by secondary antibody only.



IHC (Immunohistochemistry)

Fig.6. Immunohistochemical analysis of paraffin-embedded mouse liver tissue.1, alpha-SMA Monoclonal Antibody was diluted at 1:200 (4 degree C, overnight).2, Sodium citrate pH 6.0 was used for antibody retrieval (>98 degree C, 20min).3, secondary antibody was diluted at 1:200 (room temperature, 30min).Negative control was used by secondary antibody only.



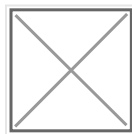
IHC (Immunohistochemistry)

Fig.5. Immunohistochemical analysis of paraffin-embedded human uterus cancer tissue.1, alpha-SMA Monoclonal Antibody was diluted at 1:200 (4 degree C, overnight).2, Sodium citrate pH 6.0 was used for antibody retrieval (>98 degree C, 20min).3, secondary antibody was diluted at 1:200 (room temperature, 30min).Negative control was used by secondary antibody only.



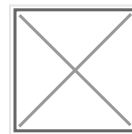
IF (Immunofluorescence)

Fig.4. Immunofluorescence analysis of rat liver tissue.1, alpha-SMA Monoclonal Antibody (red) was diluted at 1:200 (4 degree C, overnight).2, Cy3 Labeled secondary antibody was diluted at 1:300 (room temperature, 50min).3, Picture B: DAPI (blue) 10min.Picture A: Target.Picture B: DAPI.Picture C: merge of A+B.



IF (Immunofluorescence)

Fig.3. Immunofluorescence analysis of mouse liver tissue.1, alpha-SMA Monoclonal Antibody (red) was diluted at 1:200 (4 degree C, overnight).2, Cy3 Labeled secondary antibody was diluted at 1:300 (room temperature, 50min).3, Picture B: DAPI (blue) 10min.Picture A: Target.Picture B: DAPI.Picture C: merge of A+B.



IF (Immunofluorescence)

Fig.2. Immunofluorescence analysis of human liver tissue.1, alpha-SMA Monoclonal Antibody (red) was diluted at 1:200 (4 degree C, overnight).2, Cy3 Labeled secondary antibody was diluted at 1:300 (room temperature, 50min).3, Picture B: DAPI (blue) 10min.Picture A: Target.Picture B: DAPI.Picture C: merge of A+B.

ADDITIONAL INFORMATION

Related Product Information for anti-alpha-SMA antibody

The protein encoded by ACTA2 (actin, alpha 2, smooth muscle, aorta) 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119570540
NCBI GeneID	59
UniProt Accession #	P62736
NCBI Official Full Name	actin, alpha 2, smooth muscle, aorta, isoform CRA_a
NCBI Official Synonym Full Names	actin alpha 2, smooth muscle
NCBI Official Symbol	ACTA2
NCBI Official Synonym Symbols	ACTSA
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/monoclonal/alpha-sma-antibody-western-blot-immunofluorescence-immunohistochemistry-elisa/31477>