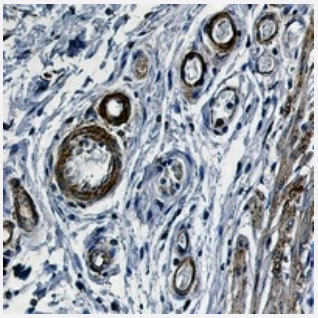
RecomAb™ Sm Size

ACTA2 recombinant monoclonal antibody

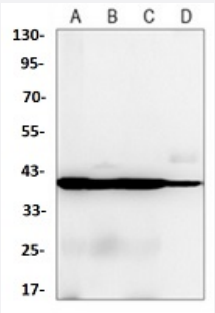
Catalog # RAB09136 Size 50 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of human colon cancer formalin fixed paraffin embedded tissue section using Smooth Muscle Actin recombinant monoclonal antibody (Cat # RAB09136). The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.53). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Western Blot

Western blot analysis of rat brain (A), C6 (B), NIH3T3 (C), Hela (D) whole cell lysates with Smooth Muscle Actin recombinant monoclonal antibody (Cat # RAB09136).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human ACTA2.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide of human alpha smooth muscle Actin.
Theoretical MW (kDa)	42
Reactivity	Human, Mouse, Rat

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Specificity	Recognizes endogenous levels of Smooth Muscle Actin protein.
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Immunogen affinity chromatography
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50mM Tris-Glycine, pH 7.4 (0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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- Western Blot

  Western blot analysis of rat brain (A), C6 (B), NIH3T3 (C), Hela (D) whole cell lysates with Smooth Muscle Actin recombinant monoclonal antibody (Cat # RAB09136).

Gene Info — ACTA2

Entrez GeneID	59
Protein Accession#	P62736
Gene Name	ACTA2
Gene Alias	AAT6, ACTSA

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Gene Description	actin, alpha 2, smooth muscle, aorta
Omim ID	102620
Gene Ontology	Hyperlink
Gene Summary	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
Other Designations	OTTHUMP00000020042|alpha 2 actin|alpha-cardiac actin|growth-inhibiting gene 46

Pathway

- Vascular smooth muscle contraction

Disease

- Alzheimer Disease
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease

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