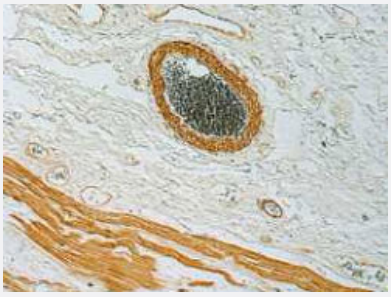
ACTA2 polyclonal antibody

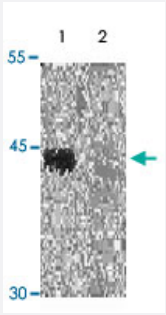
Catalog # PAB12649 Size 100 ug

Applications



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

Immunohistochemical staining of human colon tissue stained with ACTA2 polyclonal antibody (Cat # PAB12649) at 1 : 200 for 10 min at RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.



Western Blot (Tissue lysate)

Tissue lysate from mouse lung was resolved onto 12% SDS-PAGE and transferred onto NC Membrane, then probed by ACTA2 polyclonal antibody (Cat # PAB12649) at 1 : 500, right lane. Left lane was depleted by immunizing peptide.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ACTA2.
Immunogen	A synthetic peptide corresponding to 10 amino acids of N-terminus of human ACTA2.
Host	Rabbit
Theoretical MW (kDa)	42
Reactivity	Human, Mouse, Rat
Specificity	This antibody recognizes ~42 KDa of ACTA2.
Form	Liquid

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Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Western Blot (0.1-1 ug/mL) ELISA (0.01-0.1 ug/mL) Immunoprecipitation (2-5 ug/mL) Immunohistochemistry (2-5 ug/mL) Flow cytometry (10-20 ug per 10^6 cells) The optimal working dilution should be determined by the end user.
Storage Buffer	In TBS, pH 7.2 (BSA, 10% Proclin300)
Storage Instruction	Store at 4°C. For long term storage store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing. Upon initial thawing, apportion into working aliquots and store at -80°C for up to six months.

Applications

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

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- Flow Cytometry
- Enzyme-linked Immunoabsorbent Assay
- Immunoprecipitation
- Western Blot (Tissue lysate)

  Tissue lysate from mouse lung was resolved onto 12% SDS-PAGE and transferred onto NC Membrane, then probed by ACTA2 polyclonal antibody (Cat # PAB12649) at 1 : 500, right lane. Left lane was depleted by immunizing peptide.

Gene Info — ACTA2

Entrez GeneID	59
Gene Name	ACTA2
Gene Alias	AAT6, ACTSA
Gene Description	actin, alpha 2, smooth muscle, aorta
Omim ID	102620

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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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