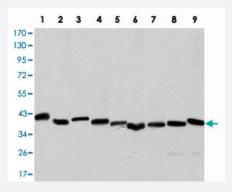
ACTA2 monoclonal antibody, clone 4A4

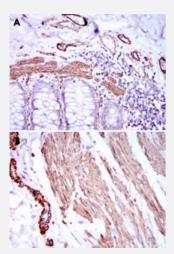
Catalog # MAB10482 Size 100 uL

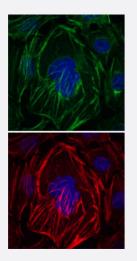
Applications



Western Blot (Cell lysate)

Western blot analysis using ACTA2 monoclonal antibody, clone 4A4 (Cat # MAB10482) against HeLa (1), A-431 (2), Jurkat (3), K-562 (4), HEK293 (5), HepG2 (6), NIH/3T3 (7), PC-12 (8) and COS-7 (9) cell lysate.





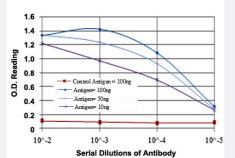
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections)

Immunohistochemical analysis of paraffin-embedded human duodenum tissues (A) and human esophagus tissues (B) using ACTA2 monoclonal antibody, clone 4A4 (Cat # MAB10482) with DAB staining.

Immunofluorescence

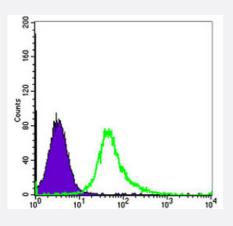
Immunofluorescence analysis of HepG2 cells using ACTA2 monoclonal antibody, clone 4A4 (Cat # MAB10482) (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Blue: DRAQ5 fluorescent DNA dye.





Enzyme-linked Immunoabsorbent Assay

ELISA detection with ACTA2 monoclonal antibody, clone 4A4 (Cat # MAB10482).



Flow Cytometry

Flow cytometric analysis of HeLa cells using ACTA2 monoclonal antibody, clone 4A4 (Cat # MAB10482) (green) and negative control (purple).

Specification	
Product Description	Mouse monoclonal antibody raised against synthetic peptide of ACTA2.
Immunogen	A synthetic peptide corresponding to human ACTA2.
Host	Mouse
Theoretical MW (kDa)	42
Reactivity	Human, Monkey, Mouse, Rat
Form	Liquid
Isotype	lgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) Immunofluorescence (1:200-1:1000) Flow cytometry (1:200-1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (0.03% sodium azide)



Product Information

Storage Instruction

Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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Gene Info — ACTA2	
Entrez GenelD	<u>59</u>
Gene Name	ACTA2
Gene Alias	AAT6, ACTSA
Gene Description	actin, alpha 2, smooth muscle, aorta
Omim ID	102620
Gene Ontology	Hyperlink



Product Information

Gene Summary

The protein encoded by this gene belongs to the actin family of proteins, which are highly conserv ed proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin iso forms have been identified, with alpha actins being a major constituent of the contractile apparatu s, 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. [pr ovided by RefSeq

Other Designations

OTTHUMP00000020042|alpha 2 actin|alpha-cardiac actin|growth-inhibiting gene 46

Pathway

• Vascular smooth muscle contraction

Disease

- Alzheimer Disease
- <u>Cardiovascular Diseases</u>
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease