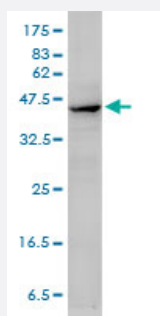


ACTA2 monoclonal antibody (M02), clone 4A8-2H3

Catalog # H00000059-M02

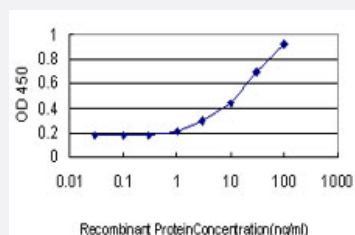
Size 100 ug

Applications



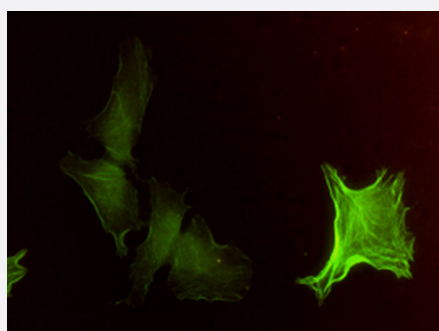
Western Blot (Tissue lysate)

ACTA2 monoclonal antibody (M01), clone 4A8-2H3. Western Blot analysis of ACTA2 expression in human omentum, serous carcinoma.



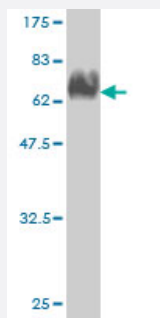
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ACTA2 is approximately 1ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to ACTA2 on HeLa cell. [antibody concentration 1 ~ 10 ug/ml]



Western Blot detection against Immunogen (67.21 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant ACTA2.
Immunogen	ACTA2 (AAH17554.1, 1 a.a. ~ 377 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MCEEDSTALVCDNGSGLCKAGFAGDDAPRAVFPSIVGRPRHQGMVGMGQKDSYVGDEAQS KRGILTLKYPHGIITNWDDMEKWHHSFYNELRVAPEEHPTLLTEAPLNPKANREKMTQIMFETFN VPAMYVAIQAVLSLYASGRITGVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKILTER GYSFVTTAEREIVRDIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQ PSFIGMESAGIHETTYNSIMKCDIDIRKDLYANNVLSGGTTMYPGIADRMQKEITALAPSTMKIKIAPP ERKYSVWIGGSILASLSTFQQMWISKQEYDEAGPSIVHRKCF
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (100); Rat (100)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (67.21 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

ACTA2 monoclonal antibody (M01), clone 4A8-2H3. Western Blot analysis of ACTA2 expression in human omentum, serous carcinoma.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ACTA2 is approximately 1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to ACTA2 on HeLa cell. [antibody concentration 1 ~ 10 ug/ml]

Gene Info — ACTA2

Entrez GeneID [59](#)

GeneBank Accession# [BC017554](#)

Protein Accession# [AAH17554.1](#)

Gene Name ACTA2

Gene Alias AAT6, ACTSA

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

Publication Reference

- [Histopathological and biochemical alterations of the parotid gland induced by experimental hypothyroidism in adult male rats and the possible therapeutic effect of Nigella sativa oil.](#)

Wael Amin Nasr El-Din, Islam Omar Abdel Fattah.

Tissue & Cell 2020 Aug; 65:101366.

Application: IHC-P, Rat, Rat parotid glands

- [Isolation and Characterization of a Primary Proximal Tubular Epithelial Cell Model from Human Kidney by CD10/CD13 Double Labeling.](#)

Van der Hauwaert C, Savary G, Gnemmi V, Glowacki F, Pottier N, Bouillez A, Maboudou P, Zini L, Leroy X, Cauffiez C, Perrais M, Aubert S.

PLoS One 2013 Jun; 8(6):e66750.

Application: IF, WB-Ce, Human, MRC5, Proximal tubular cells

- [miR-199a-5p Is Upregulated during Fibrogenic Response to Tissue Injury and Mediates TGFbeta-Induced Lung Fibroblast Activation by Targeting Caveolin-1.](#)

Lino Cardenas CL, Henaoui IS, Courcot E, Roderburg C, Cauffiez C, Aubert S, Copin MC, Wallaert B, Glowacki F, Dewaeles E, Milosevic J, Maurizio J, Tedrow J, Marcet B, Lo-Guidice JM, Kaminski N, Barbry P, Luedde T, Perrais M, Mari B, Pottier N.

PLOS genetics 2013 Feb; 9(2):e1003291.

Application: IFA,WB, Human, MRC-5 cells

Pathway

- [Vascular smooth muscle contraction](#)

Disease

- [Alzheimer Disease](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)