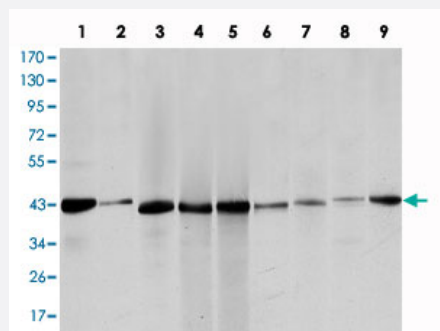


ACTA2 monoclonal antibody, clone 1H8

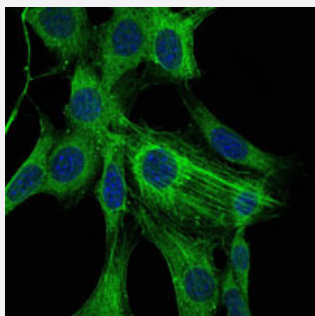
Catalog # MAB10480 Size 100 uL

Applications



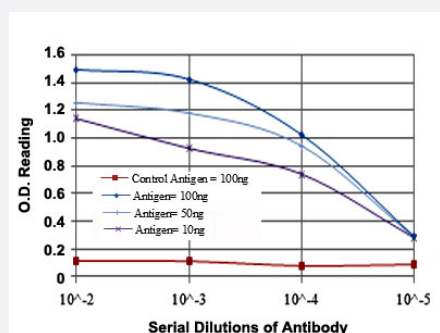
Western Blot (Cell lysate)

Western blot analysis using ACTA2 monoclonal antibody, clone 1H8 (Cat # MAB10480) against HeLa (1), Jurkta (2), HepG2 (3), MCF-7 (4), A-431 (5), A-549 (6), PC-12 (7), NIH/3T3 (8) and COS-7 (9) cell lysate.



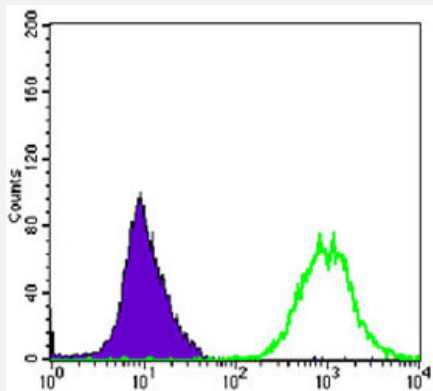
Immunofluorescence

Immunofluorescence analysis of NIH/3T3 cells using ACTA2 monoclonal antibody, clone 1H8 (Cat # MAB10480) (green). Blue: DRAQ5 fluorescent DNA dye.



Enzyme-linked Immunoabsorbent Assay

ELISA detection with ACTA2 monoclonal antibody, clone 1H8 (Cat # MAB10480).



Flow Cytometry

Flow cytometric analysis of HeLa cells using ACTA2 monoclonal antibody, clone 1H8 (Cat # MAB10480) (green) and negative control (purple).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant ACTA2.
Immunogen	Recombinant protein corresponding to human ACTA2.
Host	Mouse
Theoretical MW (kDa)	42
Reactivity	Human, Monkey, Mouse, Rat
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) 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)
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 should be handled by trained staff only.

Applications

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Flow cytometric analysis of HeLa cells using ACTA2 monoclonal antibody, clone 1H8 (Cat # MAB10480) (green) and negative control (purple).

Gene Info — ACTA2

Entrez GeneID

[59](#)

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

Pathway

- [Vascular smooth muscle contraction](#)

Disease

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