

## ACTA2 Monoclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-MCA0135
<b>Host</b>	Mouse
<b>Isotype</b>	IgG
<b>Size</b>	50ul, 100ul
<b>Immunogen</b>	Synthesized peptide of human ACTA2.
<b>Mol wt</b>	N/A
<b>Species reactivity</b>	Human,Mouse,Rat,Monkey
<b>Clonality</b>	Monoclonal
<b>Recommended application</b>	WB, IHC-p, IF, ICC, FCM, ELISA
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	Actin, aortic smooth muscle
<b>Synonyms</b>	ACTA2; ACTSA; ACTVS; GIG46; Actin; aortic smooth muscle; Alpha-actin-2; Cell growth-inhibiting gene 46 protein

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### Background

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.

### Recommended Dilution

FC: 1:200 - 1:400

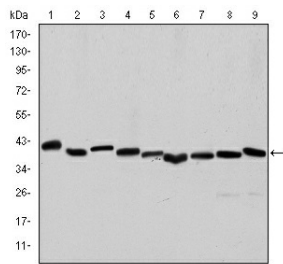
IF: 1:200 - 1:1000

IHC: 1:200 - 1:1000

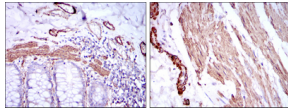
WB: 1:500 - 1:2000

Not yet tested in other applications.

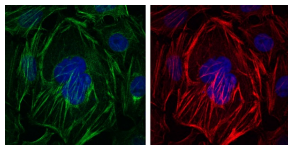
### Images



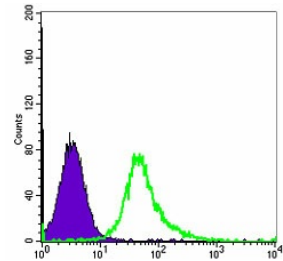
Western Blot analysis using ACTA2 Monoclonal antibody against HeLa (1) A431 (2) Jurkat (3) K562 (4) HEK293 (5) HepG2 (6) NIH/3T3 (7) PC-12 (8) and Cos7 (9) cell lysate.



Immunohistochemistry analysis of paraffin-embedded human duodenum tissues (left) and human esophagus tissues (right) with DAB staining using ACTA2 Monoclonal antibody.



Immunofluorescence analysis of HepG2 cells using ACTA2 Monoclonal antibody (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Blue: DRAQ5 fluorescent DNA dye.



Flow cytometric analysis of HeLa cells using ACTA2 Monoclonal antibody (green) and negative control (purple).

## Storage

-20°C for one year

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