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Product datasheet for AM06647SU-N

alpha smooth muscle Actin (ACTA2) Mouse Monoclonal Antibody [Clone ID: 4A4]

Product data:

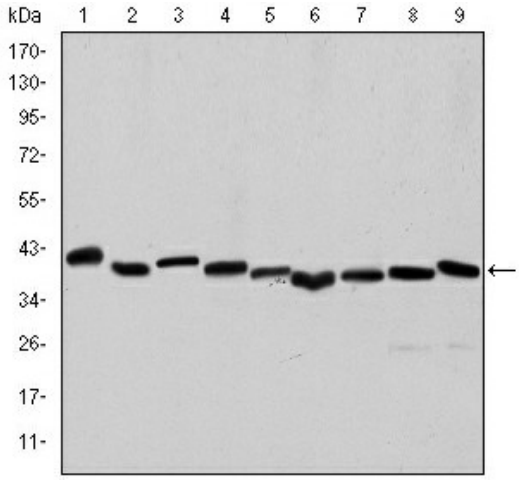
Product Type:	Primary Antibodies
Clone Name:	4A4
Applications:	ELISA, FC, IF, IHC, WB
Recommended Dilution:	**Western Blot:** 1/500 - 1/2000. **Immunohistochemistry on paraffin sections**: 1/200 - 1/1000. **Immunofluorescence**: 1/200 - 1/1000. **Flow cytometry:** 1/200 - 1/400. **ELISA**: 1/10000.
Reactivity:	Human, Monkey, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthesized peptide of human ACTA2.
Specificity:	This antibody reacts to ACTA2.
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% sodium azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	42 kDa
Gene Name:	actin, alpha 2, smooth muscle, aorta
Database Link:	Entrez Gene 59 Human P62736

View online »

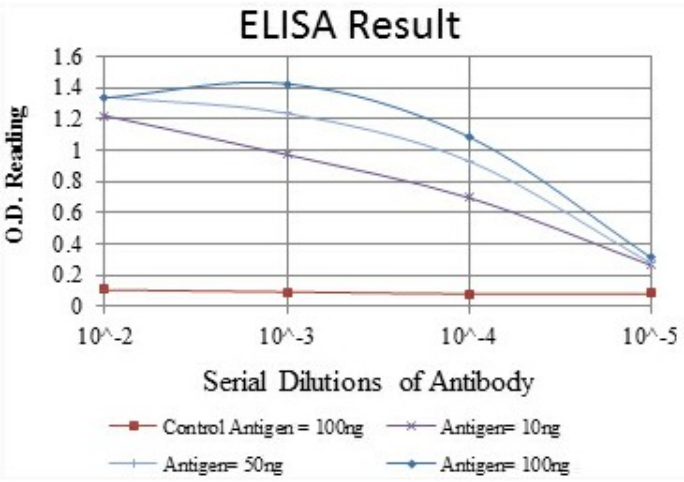
Background: The protein encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile 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.

Synonyms: ACTSA, ACTVS, Alpha-actin-2

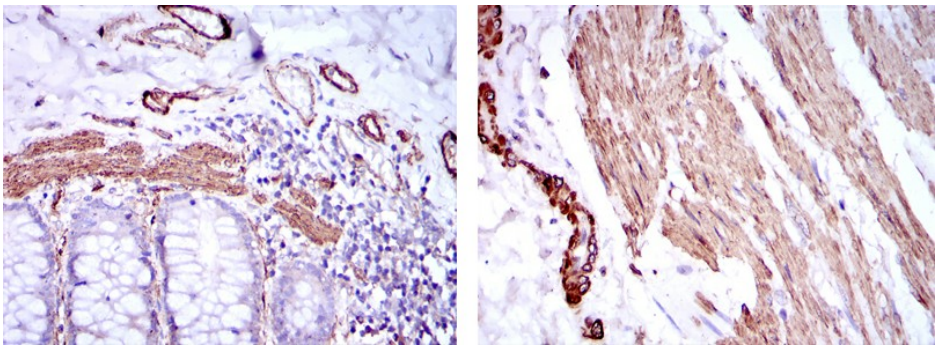
Product images:



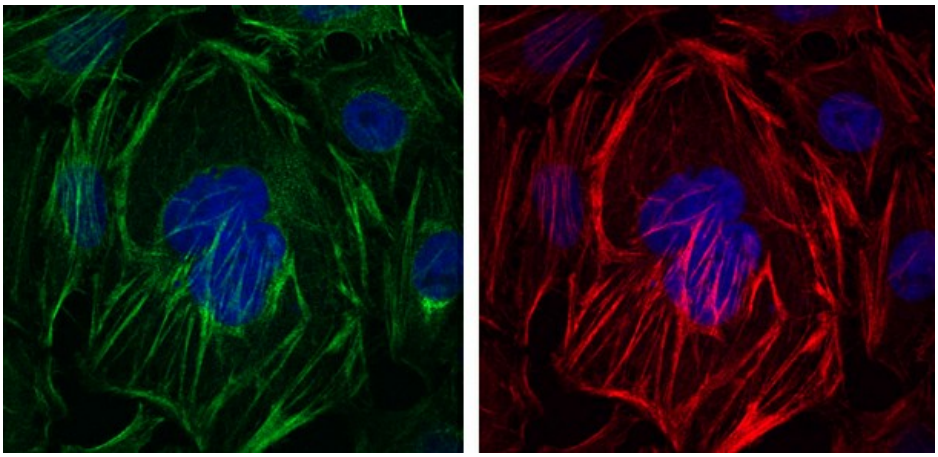
Western blot analysis using ACTA2 mouse mAb against Hela (1), A431 (2), Jurkat (3), K562 (4), HEK293 (5), HepG2 (6), NIH/3T3 (7), PC-12 (8) and Cos7 (9) cell lysate.



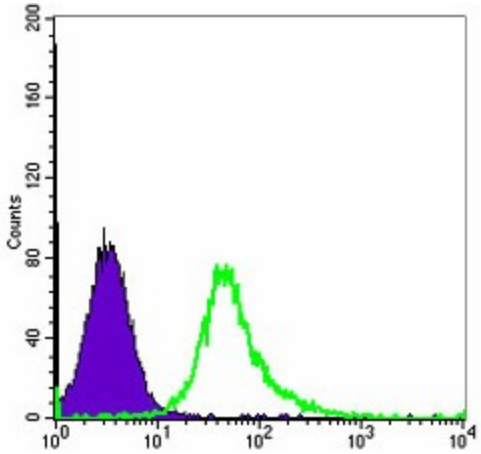
Red: Control Antigen (100ng) Purple: Antigen (10ng) Green: Antigen (50ng) Blue: Antigen (100ng)



Immunohistochemical analysis of paraffin-embedded human duodenum tissues (left) and human esophagus tissues (right) using ACTA2 mouse mAb with DAB staining.



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



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