

Product Name: ACTA2 Mouse Monoclonal Antibody

Catalog #: AMM81010

For research use only.

Summary

Description Mouse monoclonal Antibody

Host Mouse

Application WB,IHC,ICC,ELISA,FC

Reactivity Human, Mouse, Rat, Monkey

ConjugationUnconjugatedModificationUnmodifiedIsotypeMouse IgG1ClonalityMonoclonalFormLiquid

Concentration 1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Buffer PBS containing 0.03% sodium azide.

Purification Affinity Purification

Application

Dilution Ratio WB 1:500-1:2000,IHC 1:200-1:1000,ICC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400

Molecular Weight 42kDa

Antigen Information

Gene Name ACTA2

Alternative Names AAT6; ACTSA; α -Smooth Muscle Actin; Alpha-actin-2; Alpha actin 2

Gene ID 59.0 **SwissProt ID** P62736

Immunogen Synthesized peptide of human ACTA2.

Background

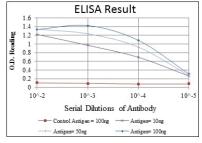
The protein encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus,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



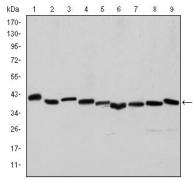
actin is an alpha actin that is found in skeletal muscle. Defects in this gene cause aortic aneurysm familial thoracic type 6. Multiple alternatively spliced variants, encoding the same protein, have been identified.

Research Area

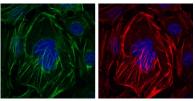
Image Data



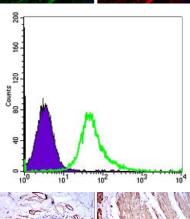
Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng);



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.



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.



Flow cytometric analysis of Hela cells using ACTA2 mouse mAb (green) and negative control (purple).

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

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