

Product Name: ACTA2 Mouse Monoclonal Antibody**Catalog #: AMM82401**

For research use only.

Summary

| | |
|----------------------|---|
| Description | Mouse monoclonal Antibody |
| Host | Mouse |
| Application | WB,IHC,ICC,ELISA,FC |
| Reactivity | Human, Mouse |
| Conjugation | Unconjugated |
| Modification | Unmodified |
| Isotype | Mouse IgG1 |
| Clonality | Monoclonal |
| Form | Liquid |
| Concentration | 1mg/ml |
| Storage | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| Shipping | Ice bags |
| Buffer | Purified antibody in PBS with 0.05% 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

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|--------------------------|--|
| Gene Name | ACTA2 |
| Alternative Names | ACTSA; α -Smooth Muscle Actin;Alpha-actin-2;Alpha actin 2 |
| Gene ID | 59.0 |
| SwissProt ID | P62736 |
| Immunogen | Purified recombinant fragment of human ACTA2 (AA: E(ace)EEDSTALVCDNGSGc) expressed in E. Coli. |

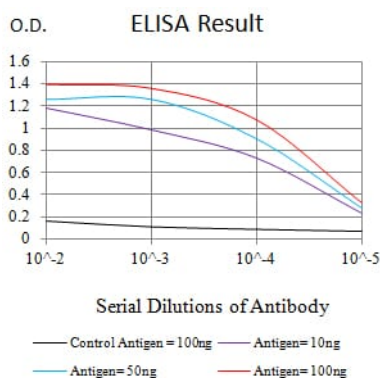
Background

This gene encodes one of six different actin proteins. Actins are highly conserved proteins that are involved in cell motility, structure, integrity, and intercellular signaling. The encoded protein is a smooth muscle actin that is involved in vascular

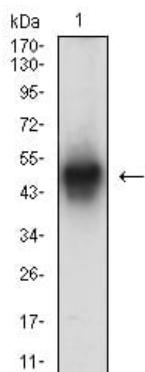
contractility and blood pressure homeostasis. Mutations in this gene cause a variety of vascular diseases, such as thoracic aortic disease, coronary artery disease, stroke, and Moyamoya disease, as well as multisystemic smooth muscle dysfunction syndrome.

Research Area

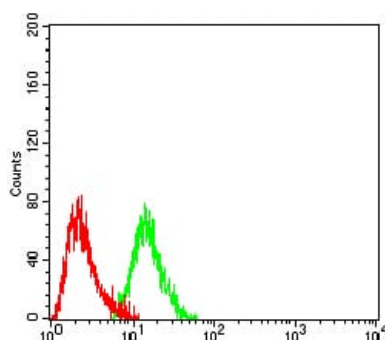
Image Data



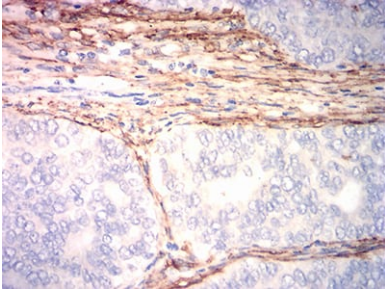
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



Western blot analysis using ACTA2 mouse mAb against NIH/3T3 (1) cell lysate.



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



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissues using ACTA2 mouse mAb with DAB staining.