Product Name: ACTA2 Mouse Monoclonal Antibody
Catalog #: AMM82429
For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,ELISA,FC
Reactivity	Human, Mouse, Rat
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,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	42kDa

Antigen Information

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: 2-124) expressed in E. Coli.

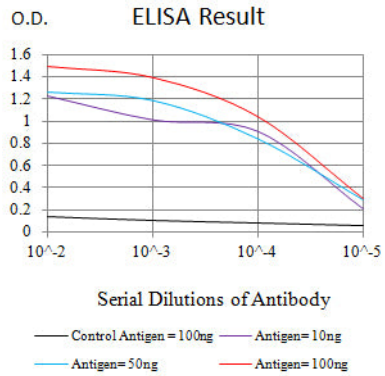
Background

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

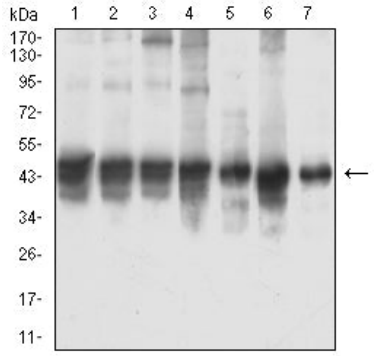
disease, coronary artery disease, stroke, and Moyamoya disease, as well as multisystemic smooth muscle dysfunction syndrome.

Research Area

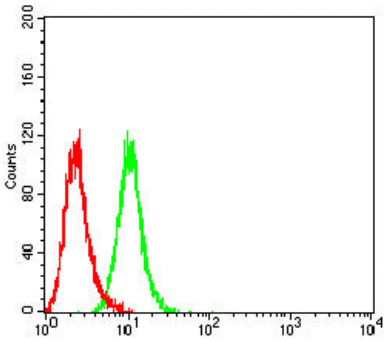
Image Data



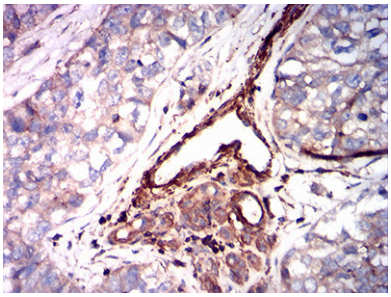
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)



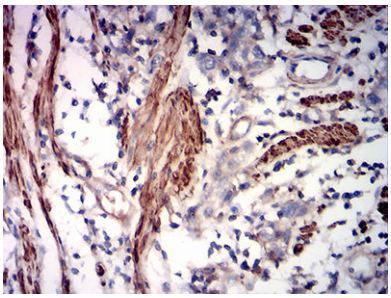
Western blot analysis using ACTA2 mouse mAb against EC (1), HUVE-12 (2), A549 (3), NIH/3T3 (4), HL-60 (5), Hela (6), and K652 (7) cell lysate.



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



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



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