Product Name: alpha Smooth Muscle Actin Mouse Monoclonal Antibody
Catalog #: AMM85024
For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,ICC
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,0.5%protective protein and 50% glycerol.
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:1000,IHC 1:50-1:100,ICC 1:50-1:200
Molecular Weight	Calculated MW: 42 kDa; Observed MW: 42 kDa

Antigen Information

Gene Name	alpha Smooth Muscle Actin
Alternative Names	ACTA2; ACTSA; ACTVS; GIG46; Actin; aortic smooth muscle; Alpha-actin-2; Cell growth-inhibiting gene 46 protein; α-SMA
Gene ID	59.0
SwissProt ID	P62736
Immunogen	Synthetic Peptide of α-SMA

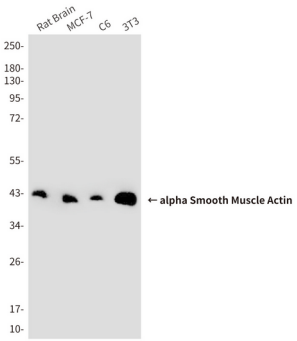
Background

Involved in the interaction of plaque proteins and intermediate filaments mediating cell-cell adhesion. Defects in ACTA2 are the cause of aortic aneurysm familial thoracic type 6 (AAT6) [MIM:611788]. They are primarily associated with a characteristic

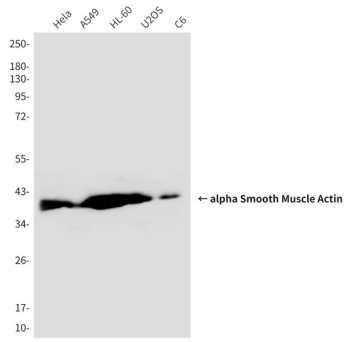
histologic appearance known as 'medial necrosis' or 'Erdheim cystic medial necrosis' in which there is degeneration and fragmentation of elastic fibers, loss of smooth muscle cells, and an accumulation of basophilic ground substance.

Research Area

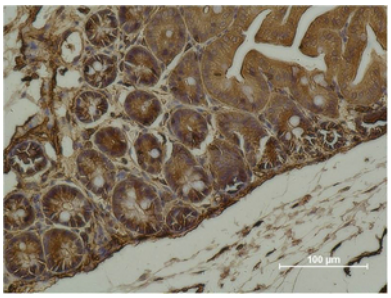
Image Data



Western blot analysis of alpha Smooth Muscle Actin in αSmooth Muscle Actin in rat Brain, MCF-7, C6 and 3T3 lysates using alpha Smooth Muscle Actin antibody



Western blot analysis of alpha Smooth Muscle Actin in Hela, A549, HL6, U2OS, C6 lysates using alpha Smooth Muscle Actin antibody



Immunohistochemistry analysis of paraffin-embedded mouse Cecal Tissue using alpha Smooth Muscle Actin antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.