Recombinant alpha smooth muscle Actin Monoclonal Antibody

catalog number: **AN301435L**

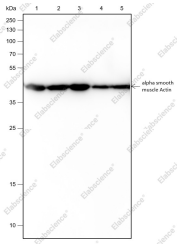
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Mouse;Rat
Immunogen	Recombinant human alpha smooth muscle Actin fragment
Host	Rabbit
Isotype	Rabbit IgG
Clone	C111058
Purification	Protein A affinity purification
Conjugation	Unconjugated
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution
WB	1:500-1:2000
IHC	1:1000-1:5000
IF	1:50
IP	1:50-1:100
FCM	1:50-1:100

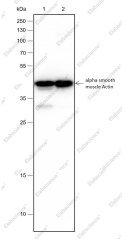
Data



Western Blot with alpha smooth muscle Actin Monoclonal Antibody at dilution of 1:2000. Lane 1: MCF-7, Lane 2: HeLa, Lane 3: A431, Lane 4: HEK-293, Lane 5: NIH-3T3

Observed-MW:42 kDa

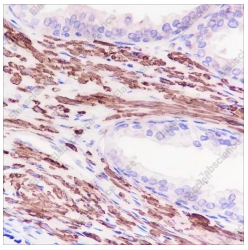
Calculated-MW:42 kDa



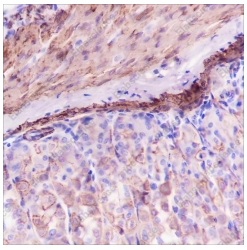
Western Blot with alpha smooth muscle Actin Monoclonal Antibody at dilution of 1:2000. Lane 1: Rat colon, Lane 2: Mouse colon

Observed-MW:42 kDa

Calculated-MW:42 kDa

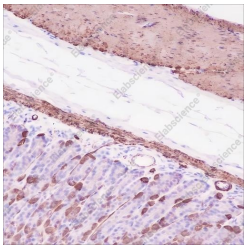


Immunohistochemistry of paraffin-embedded Human prostate hyperplasia using alpha smooth muscle Actin Monoclonal Antibody at dilution of 1:5000.

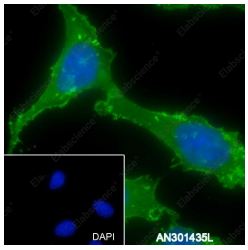


Immunohistochemistry of paraffin-embedded Mouse stomach using alpha smooth muscle Actin Monoclonal Antibody at dilution of 1:5000.

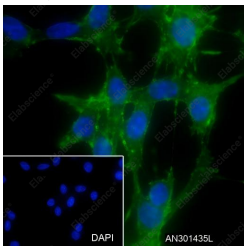
Toll-free: 1-888-852-8623
Tel: 1-832-243-6086
Fax: 1-832-243-6017
Web: www.elabscience.com
Email: techsupport@elabscience.com



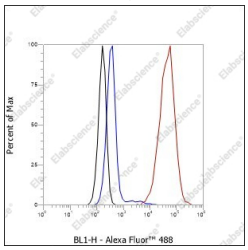
Immunohistochemistry of paraffin-embedded Rat stomach using alpha smooth muscle Actin Monoclonal Antibody at dilution of 1:5000.



Immunofluorescent analysis of (100% Ice-cold methanol) fixed HeLa cells using anti-alpha smooth muscle Actin Monoclonal Antibody at dilution of 1:50.



Immunofluorescent analysis of (100% Ice-cold methanol) fixed C6 cells using anti-alpha smooth muscle Actin Monoclonal Antibody at dilution of 1:50.



Flow cytometric analysis of human alpha smooth muscle Actin expression on HeLa cells. Cells were stained with purified anti-Human alpha smooth muscle Actin, then a Alexa Fluor 488-conjugated second step antibody. The histogram were derived from events with the forward and side light-scatter characteristics of intact cells.

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze/thaw cycles.
Shipping	Ice bag

Background

Alpha smooth muscle actin encoded by the ACTA2 gene is a key protein in the highly conserved actin family, which plays a crucial role in cell motility, structure and integrity. This isoform is predominantly expressed in vascular smooth muscle cells, where it is essential for maintaining the structure and function of blood vessels and other smooth muscle tissues. Mutations in ACTA2 are linked to various vascular disorders, including familial thoracic aortic aneurysms and dissections (TAAD) and multisystemic smooth muscle dysfunction syndrome.

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Email: techsupport@elabscience.com