

A7248SP

Leader in Biomolecular Solutions for Life Science



α -Smooth Muscle Actin (ACTA2) Rabbit pAb

Catalog No.: A7248SP

49 Publications

Basic Information

Observed MW

42 kDa

Calculated MW

42 kDa

Category

Polyclonal Antibody

Applications

WB,IHC-P,ELISA,IF-P

Cross-Reactivity

Human,Mouse,Rat

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.

Recommended Dilutions

WB 1:1000 - 1:2000

IF-P 1:100 - 1:400

IHC-P 1:500 - 1:2000

ELISA Recommended starting concentration is 1 μ g/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions ($\geq 1:10000$)

Contact

 www.abclonal.com

Immunogen Information

Gene ID

59

Swiss Prot

P62736

Immunogen

This information is considered to be commercially sensitive.

Synonyms

ACTSA; α -Smooth Muscle Actin (ACTA2)

Product Information

Source

Rabbit

Isotype

IgG

Purification

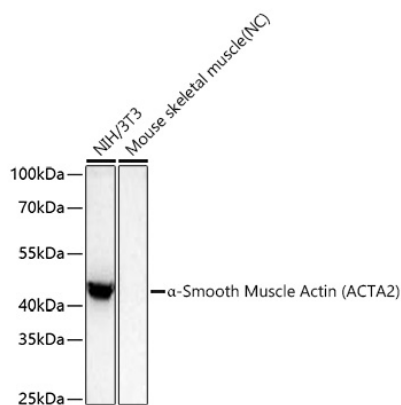
Affinity purification

Storage

Store at -20°C . Avoid freeze / thaw cycles.

Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide. May contain 0.05% BSA as specified on the Certificate of Analysis.

Validation Data



Western blot analysis of various lysates using α -Smooth Muscle Actin (ACTA2) Rabbit pAb (A7248SP) at 1:1000 dilution incubated at room temperature for 1.5 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

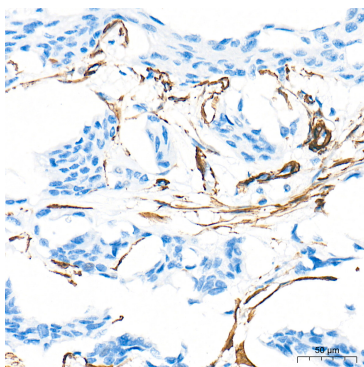
Lysates/proteins: 25 μ g per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

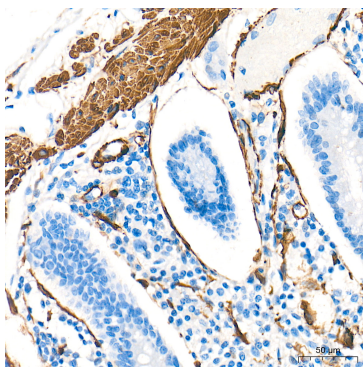
Detection: ECL Basic Kit (RM00020).

Negative control (NC): Mouse skeletal muscle.

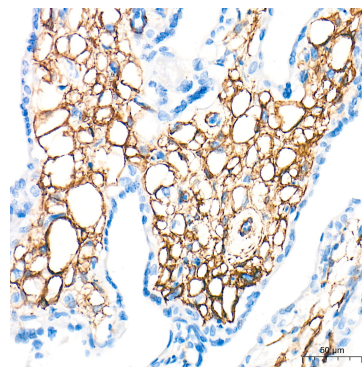
Exposure time: 45 s.



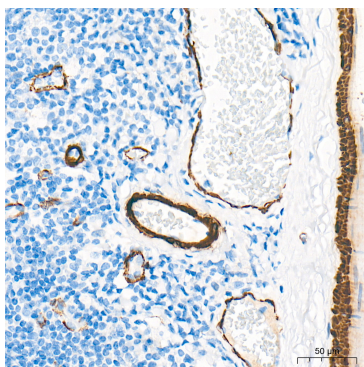
Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using α -Smooth Muscle Actin (ACTA2) Rabbit pAb (A7248SP) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



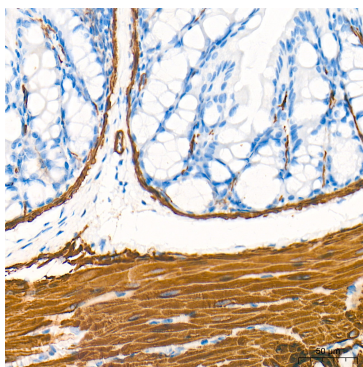
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using α -Smooth Muscle Actin (ACTA2) Rabbit pAb (A7248SP) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



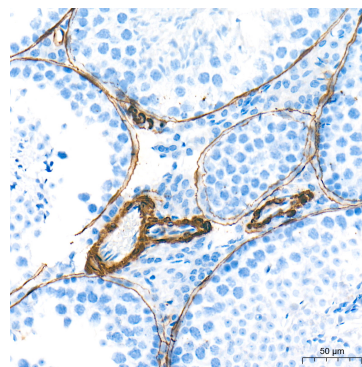
Immunohistochemistry analysis of paraffin-embedded Human placenta tissue using α -Smooth Muscle Actin (ACTA2) Rabbit pAb (A7248SP) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



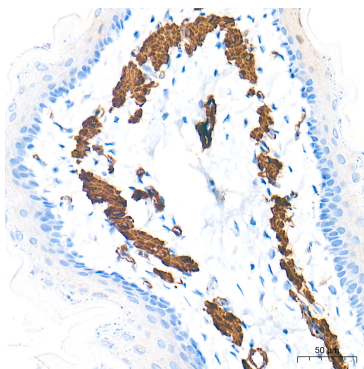
Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using α -Smooth Muscle Actin (ACTA2) Rabbit pAb (A7248SP) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



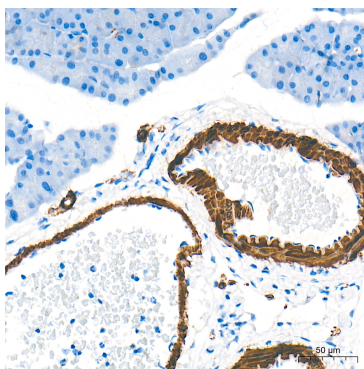
Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using α -Smooth Muscle Actin (ACTA2) Rabbit pAb (A7248SP) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



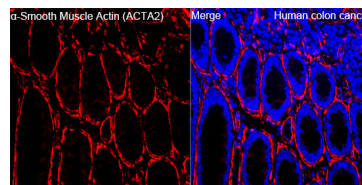
Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using α -Smooth Muscle Actin (ACTA2) Rabbit pAb (A7248SP) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



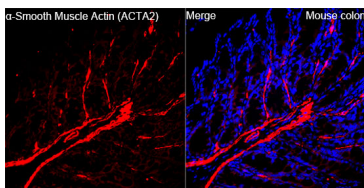
Immunohistochemistry analysis of paraffin-embedded Rat esophagus tissue using α -Smooth Muscle Actin (ACTA2) Rabbit pAb (A7248SP) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



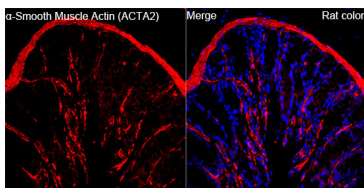
Immunohistochemistry analysis of paraffin-embedded Rat pancreas tissue using α -Smooth Muscle Actin (ACTA2) Rabbit pAb (A7248SP) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunofluorescence analysis of Human colon cancer tissue using α -Smooth Muscle Actin (ACTA2) Rabbit pAb (A7248SP) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining. High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining.



Immunofluorescence analysis of Mouse colon tissue using α -Smooth Muscle Actin (ACTA2) Rabbit pAb (A7248SP) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining. High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining.



Immunofluorescence analysis of Rat colon tissue using α -Smooth Muscle Actin (ACTA2) Rabbit pAb (A7248SP) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining. High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining.