

α -Smooth Muscle Actin (ACTA2) Rabbit pAb

Catalog No.: A1011 **23 Publications**

Basic Information

Observed MW

42kDa

Calculated MW

42kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, IF/ICC

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	1:500 - 1:1000
IHC-P	1:500 - 1:1000
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID

59

Swiss Prot

P62736

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-100 of human α -Smooth Muscle Actin (ACTA2) (NP_001604.1).

SynonymsACTSA; α -Smooth Muscle Actin (ACTA2)

Contact

	400-999-6126
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Product Information

Source

Rabbit

Isotype

IgG

Purification

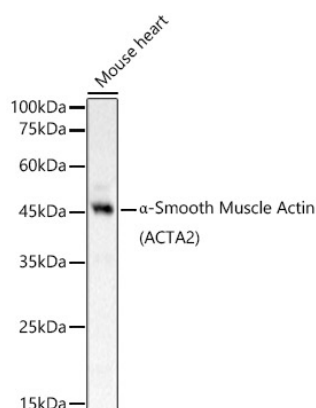
Affinity purification

Storage

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

Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of lysates from Mouse heart, using α -Smooth Muscle Actin (ACTA2) Rabbit pAb (A1011) at 1:800 dilution.

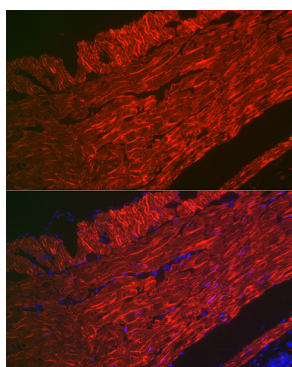
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 μ g per lane.

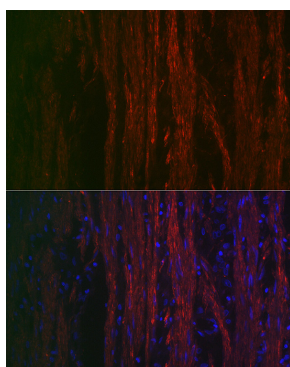
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

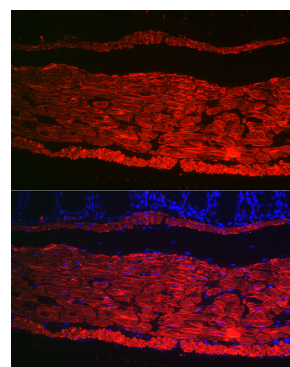
Exposure time: 10s.



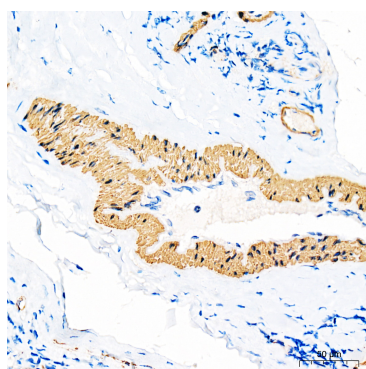
Immunofluorescence analysis of paraffin-embedded rat rectum using α -Smooth Muscle Actin (ACTA2) Rabbit pAb (A1011) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



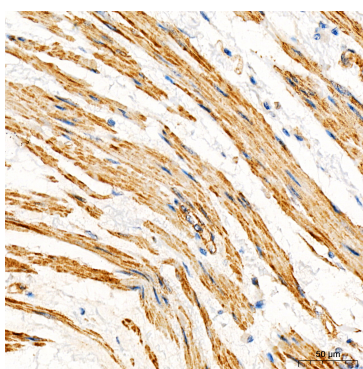
Immunofluorescence analysis of paraffin-embedded human smooth muscle using α -Smooth Muscle Actin (ACTA2) Rabbit pAb (A1011) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



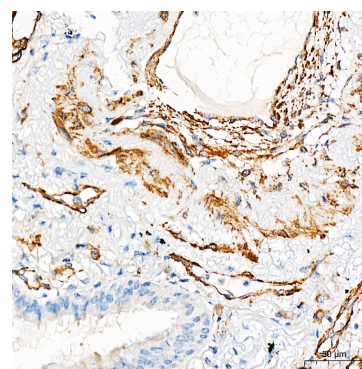
Immunofluorescence analysis of paraffin-embedded mouse colon using α -Smooth Muscle Actin (ACTA2) Rabbit pAb (A1011) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of α -Smooth Muscle Actin (ACTA2) in paraffin-embedded Human tonsil tissue using α -Smooth Muscle Actin (ACTA2) Rabbit pAb (A1011) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M Tris-EDTA buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of α -Smooth Muscle Actin (ACTA2) in paraffin-embedded Human esophagus tissue using α -Smooth Muscle Actin (ACTA2) Rabbit pAb (A1011) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M Tris-EDTA buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of α -Smooth Muscle Actin (ACTA2) in paraffin-embedded Human lung tissue using α -Smooth Muscle Actin (ACTA2) Rabbit pAb (A1011) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M Tris-EDTA buffer (pH 9.0) prior to IHC staining.