

# $\alpha$ -Smooth Muscle Actin (ACTA2) Rabbit pAb

Catalog No.: A1011 **41 Publications**

## Basic Information

**Observed MW**

42kDa

**Calculated MW**

42kDa

**Category**

Primary antibody

**Applications**

WB, IF-P, IHC-P, ELISA

**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**IF-P** 1:50 - 1:200**IHC-P** 1:500 - 1:1000

**ELISA** Recommended starting concentration is 1  $\mu$ g/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

**Gene ID**

59

**Swiss Prot**

P62736

**Immunogen**

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

**Synonyms**ACTSA;  $\alpha$ -Smooth Muscle Actin (ACTA2)

## Contact

 | 400-999-6126 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn) | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

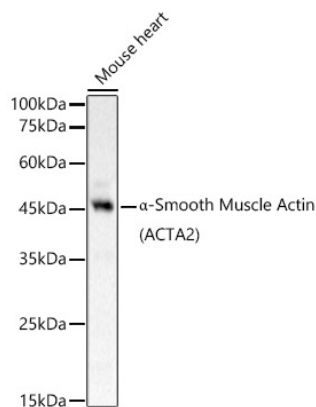
Affinity purification

**Storage**

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

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

## Validation Data



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

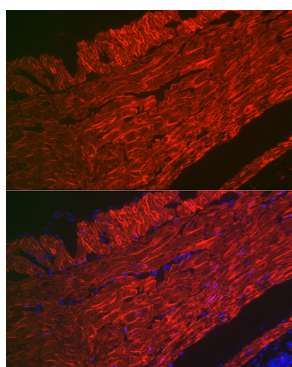
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 $\mu$ g per lane.

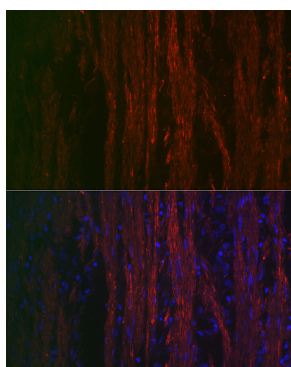
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

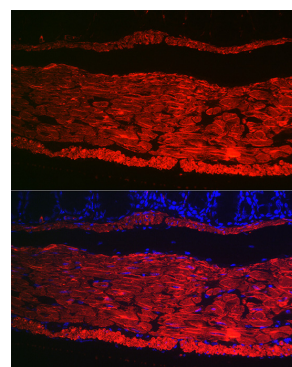
Exposure time: 10s.



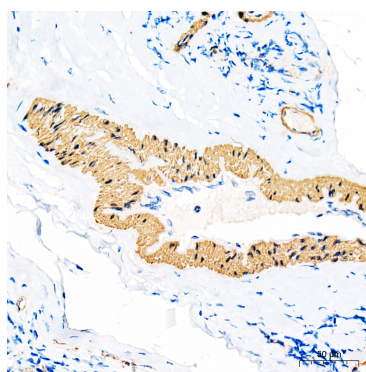
Immunofluorescence analysis of paraffin-embedded rat rectum using  $\alpha$ -Smooth Muscle Actin (ACTA2) Rabbit pAb (A1011) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



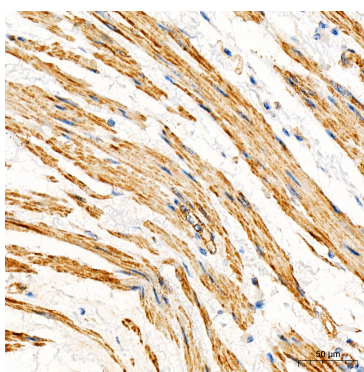
Immunofluorescence analysis of paraffin-embedded human smooth muscle using  $\alpha$ -Smooth Muscle Actin (ACTA2) Rabbit pAb (A1011) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



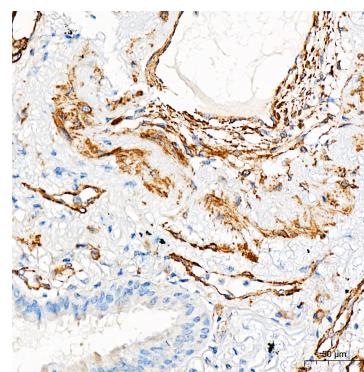
Immunofluorescence analysis of paraffin-embedded mouse colon using  $\alpha$ -Smooth Muscle Actin (ACTA2) Rabbit pAb (A1011) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using  $\alpha$ -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 paraffin-embedded Human esophagus tissue using  $\alpha$ -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 paraffin-embedded Human lung tissue using  $\alpha$ -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.