

A7248

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

Catalog No.: A7248

34 Publications

## Basic Information

### Observed MW

42kDa

### Calculated MW

42kDa

### Category

Polyclonal Antibody

### Applications

WB, IHC-P, IF/ICC, 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
IHC-P	1:20 - 1:200
IF/ICC	1:50 - 1:200

## Immunogen Information

### Gene ID

59

### Swiss Prot

P62736

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human  $\alpha$ -Smooth Muscle Actin (ACTA2) (NP\_001604.1).

### Synonyms

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

## Contact



[www.abclonal.com](http://www.abclonal.com)

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

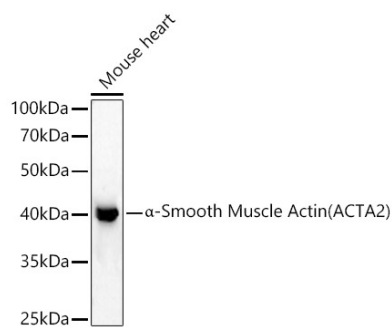
Affinity purification

### 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  $\alpha$ -Smooth Muscle Actin (ACTA2) Rabbit pAb (A7248) at 1:1000 dilution.  
Secondary antibody: HRP 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.

Western blot analysis of various lysates, using Smooth Muscle Actin (SMA) Rabbit pAb (A7248) at 1:500 dilution.

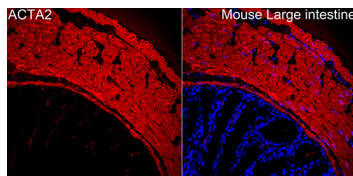
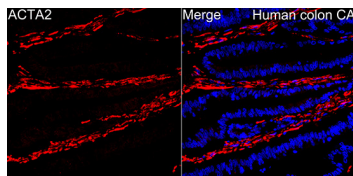
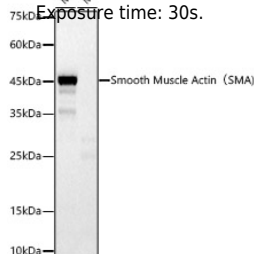
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

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

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 30s.



Immunofluorescence analysis of paraffin-embedded Human colon CA using  $\alpha$ -Smooth Muscle Actin (ACTA2) Rabbit pAb (A7248) at dilution of 1:200 (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 large intestine using  $\alpha$ -Smooth Muscle Actin (ACTA2) Rabbit pAb (A7248) 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.