

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

Catalog No.: A17910

Recombinant

110 Publications

## Basic Information

### Observed MW

42kDa

### Calculated MW

42kDa

### Category

Primary antibody

### Applications

ELISA, WB, IF/ICC

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC0298

## 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 - 1:2000

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) (P62736).

### Synonyms

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

## Contact

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

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

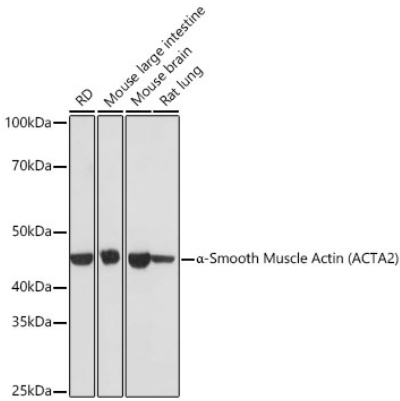
Affinity purification

### Storage

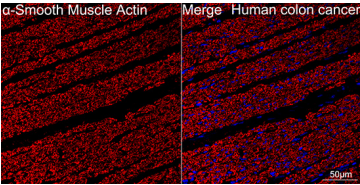
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

## Validation Data



Western blot analysis of various lysates, using α-Smooth Muscle Actin (ACTA2) Rabbit mAb (A17910) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (A5014) at 1:10000 dilution.  
Lysates/proteins: 25μg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 1s.



Confocal imaging of paraffin-embedded Human colon cancer tissue using α-Smooth Muscle Actin (ACTA2) Rabbit mAb (A17910, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (A5007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.