

A16258

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

Catalog No.: A16258

### Basic Information

#### Observed MW

45kDa

#### Calculated MW

42kDa

#### Category

Monoclonal Antibody

#### Applications

WB,IF/ICC,IP,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/ICC** 1:50 - 1:200

**IP** 1:50 - 1:200

**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

A synthetic peptide of human  $\alpha$ -Smooth Muscle Actin (ACTA2)

#### Synonyms

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

### Product Information

#### Source

Mouse

#### Isotype

IgG

#### Purification

Affinity purification

#### Storage

Store at  $-20^{\circ}\text{C}$ . Avoid freeze / thaw cycles.

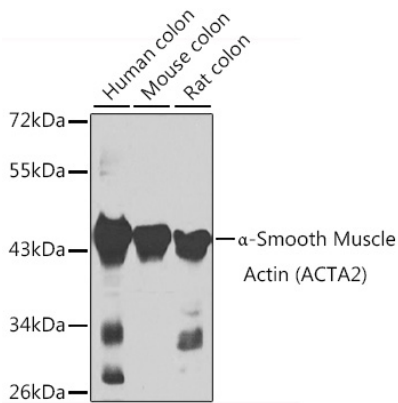
Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

### Contact



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

# Validation Data



Western blot analysis of various lysates using α-Smooth Muscle Actin (ACTA2) Mouse mAb (A16258).  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.