

# **Anti-Alpha-actin-3 Antibody**

Rabbit polyclonal antibody to Alpha-actin-3 Catalog # AP59473

## **Specification**

# Anti-Alpha-actin-3 Antibody - Product Information

Application WB, IF/IC, IHC

Primary Accession P63267
Other Accession P63268

Reactivity Human, Mouse, Rat, Rabbit, Chicken,

Host Rabbit
Clonality Polyclonal
Calculated MW 41877

## Anti-Alpha-actin-3 Antibody - Additional Information

### Gene ID 72

## **Other Names**

ACTA3; ACTL3; ACTSG; Actin, gamma-enteric smooth muscle; Alpha-actin-3; Gamma-2-actin; Smooth muscle gamma-actin

### Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Alpha-actin-3. The exact sequence is proprietary.

# **Dilution**

WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500) IF/IC~~N/A IHC~~1:100~500

#### **Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

### **Storage**

Store at -20 °C.Stable for 12 months from date of receipt

# **Anti-Alpha-actin-3 Antibody - Protein Information**

### Name ACTG2

Synonyms ACTA3, ACTL3, ACTSG

### **Function**

Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.



# **Cellular Location**

Cytoplasm, cytoskeleton.

### **Tissue Location**

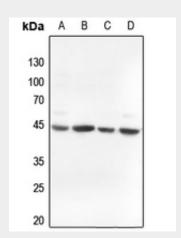
In the intestine, abundantly expressed in smooth muscle cells of muscularis mucosa and muscularis propria. Also detected in intestinal vascular smooth muscle cells

# **Anti-Alpha-actin-3 Antibody - Protocols**

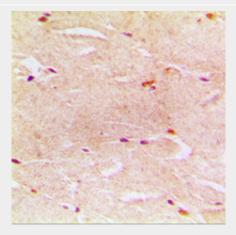
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# Anti-Alpha-actin-3 Antibody - Images



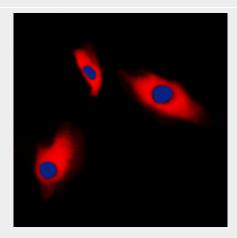
Western blot analysis of Alpha-actin-3 expression in Hela (A), H446 (B), mouse lung (C), rat lung (D) whole cell lysates.



Immunohistochemical analysis of Alpha-actin-3 staining in human muscle formalin fixed paraffin



embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Alpha-actin-3 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

# Anti-Alpha-actin-3 Antibody - Background

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