

# $\alpha$ -SMA Polyclonal Antibody

Catalog Number:E-AB-34268

14 Publications



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

## Description

<b>Reactivity</b>	Human,Mouse,Rat
<b>Immunogen</b>	Synthesized peptide derived from $\alpha$ -SMA
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Purification</b>	Affinity purification
<b>Conjugation</b>	Unconjugated
<b>Formulation</b>	PBS with 0.02% sodium azide, 0.5% protective protein and 50% glycerol, pH7.4

## Applications Recommended Dilution

<b>WB</b>	1:500-2000
<b>IHC</b>	1:50-300
<b>IF</b>	1:50-1:200
<b>ELISA</b>	1:10000-20000

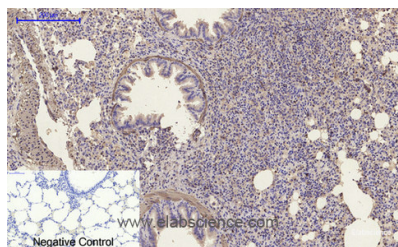
## Data



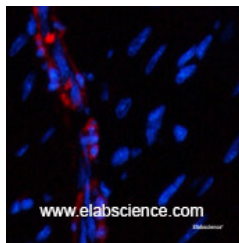
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Western Blot analysis of 3T3, Hela cells using  $\alpha$ -SMA Polyclonal Antibody at dilution of 1:1500.

**Observed Mw:42kDa**  
**Calculated Mw:42kDa**



Immunohistochemistry of paraffin-embedded Rat lung tissue using  $\alpha$ -SMA Polyclonal Antibody at dilution of 1:200.



Immunofluorescence analysis of Mouse heart tissue using  $\alpha$ -SMA Polyclonal Antibody at dilution of 1:200.

## Preparation & Storage

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

## Background

## For Research Use Only

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Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. ACTA2 (Actin, Alpha 2, Smooth Muscle, Aorta) is a Protein Coding gene. Diseases associated with ACTA2 include Multisystemic Smooth Muscle Dysfunction Syndrome and Moyamoya Disease 5. Among its related pathways are ICos-ICosL Pathway in T-Helper Cell and GPCR Pathway. GO annotations related to this gene include protein kinase binding. An important paralog of this gene is ACTG2. ACTA1 (Actin, Alpha 1, Skeletal Muscle) is a Protein Coding gene. Diseases associated with ACTA1 include Nemaline Myopathy 3, Autosomal Dominant Or Recessive and Myopathy, Congenital, With Fiber-Type Disproportion. Among its related pathways are ICos-ICosL Pathway in T-Helper Cell and GPCR Pathway. GO annotations related to this gene include structural constituent of cytoskeleton and myosin binding. An important paralog of this gene is ACTC1. ACTG2 (Actin, Gamma 2, Smooth Muscle, Enteric) is a Protein Coding gene. Diseases associated with ACTG2 include Visceral Myopathy and Chronic Intestinal Pseudoobstruction. Among its related pathways are ICos-ICosL Pathway in T-Helper Cell and GPCR Pathway. An important paralog of this gene is ACTA2.

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