

Rabbit alpha-SMA Polyclonal Antibody | anti-alpha-SMA antibody

alpha-SMA Polyclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA173714	Rabbit	Human, Mouse, Rat	ELISA, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

alpha-SMA; Polyclonal Antibody; alpha-SMA Polyclonal Antibody; a actin; Actin aortic smooth muscle; Actin; Cell growth inhibiting gene 46 protein; Cell growth-inhibiting gene 46 protein; GIG46; Actin alpha skeletal muscle; actin; alpha 1; skeletal muscle1; anti-alpha-SMA antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purification
Sequence Length	377
Applicable Applications for anti-alpha-SMA antibody	ELISA, IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Synthesized peptide derived from alpha-SMA
Buffer	PBS with 0.02% sodium azide, 0.5% BSA and 50% glycerol, pH7.4
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.

IMAGES



IF (Immunofluorescence)

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



IHC (Immunohistochemistry)

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



WB (Western Blot)

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

ADDITIONAL INFORMATION

Related Product Information for anti-alpha-SMA antibody	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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NCBI AND UNIPROT INFORMATION

NCBI GI #	213688375
NCBI GeneID	59
NCBI Accession #	NP_001135417.1
NCBI GenBank Nucleotide #	NM_001141945.2
UniProt Accession #	P62736; P03996; P04108; Q6FI19; B2R8A4
Molecular Weight	Calculated MW: 42kDa Observed MW: 42kDa
NCBI Official Full Name	actin, aortic smooth muscle
NCBI Official Synonym Full Names	actin, alpha 2, smooth muscle, aorta
NCBI Official Symbol	ACTA2
NCBI Official Synonym Symbols	ACTSA
NCBI Protein Information	actin, aortic smooth muscle
UniProt Protein Name	Actin, aortic smooth muscle
UniProt Gene Name	ACTA2
UniProt Synonym Gene Names	ACTSA; ACTVS

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.