

Rabbit Anti-alpha smooth muscle Actin antibody

SL10196R

Product Name:	alpha smooth muscle Actin
Chinese Name:	肌动蛋白α/α-SMA/α Actin抗体
Alias:	alpha sarcomeric Actin; alpha smooth muscle Actin; Actin alpha; ASMA; ASM-A; alpha-SMA; alpha SMA; AAT6; ACTA2; Actin alpha 2 smooth muscle aorta; Actin aortic smooth muscle; ACTSA; ACTVS; Alpha 2 actin; Alpha cardiac actin; Alpha-actin 2; Cell growth inhibiting gene 46 protein; Growth inhibiting gene 46; ACTA_HUMAN; Actin alpha 2 smooth muscle aorta; Actin aortic smooth muscle; Actin, aortic smooth muscle; Alpha 2 actin; Alpha actin 2; Alpha cardiac actin; Alpha-actin-2; Cell growth inhibiting gene 46 protein; Cell growth-inhibiting gene 46 protein; Growth inhibiting gene 46; MYMY5
	Specific References(6) SL10196R has been referenced in 6 publications.
	[IF=2.16]Xu, Liang, et al. "Total polysaccharide of Yupingfeng protects against
	bleomycin-induced pulmonary fibrosis via inhibiting transforming growth
	factor-β1-mediated type I collagen abnormal deposition in rats." Journal of Pharmacy
	and Pharmacology (2014).IHC-P;Rat.
文献引用 Pub <mark>M</mark> ed	PubMed:25209833
	[IF=2.88]Li, Liucheng, et al. "Total extract of Yupingfeng attenuates bleomycin-induced
	pulmonary fibrosis in rats." Phytomedicine 22.1 (2015): 111-119.WB;Rat.
	PubMed:25636879
	[IF=1.86]Qiao, Xi, et al. "Intermedin is upregulated and attenuates renal fibrosis by
	inhibition of oxidative stress in rats with unilateral ureteral obstruction."Nephrology
	(2015). IHC-P;Rat .
	PubMed:26014968
	[IF=1.72] Yan, Xuerui, et al. "Cyanidin-3-O-glucoside Induces Apoptosis and Inhibits

	Migration of Tumor Necrosis Factor- α -Treated Rat Aortic Smooth Muscle Cells."	
	Cardiovascular Toxicology (2015): 1-9.Rat.	
PubMed:26138096		
	[IF=2.91]Pang, X-X., et al. "Urotensin II Induces ER Stress and EMT and Increase	
	Extracellular Matrix Production in Renal Tubular Epithelial Cell in Early Diabetic	
	Mice "Kidney and Blood Pressure Research 41 4 (2016). 434-449 WB. IHC-P: Mouse	
	PubMed:27467277	
	IF=2.55 Shen, Haitao, et al. "Chloroquine attenuates paraquat-induced lung injury in	
	mice by altering inflammation, oxidative stress and fibrosis." International	
	Immunonharmacology 46 (2017): 16-22 IHC-P:Mouse	
	<u>PubMed:28249220</u>	
Organism Species:	Rabbit	
Cionality:	Polycional Ulumon Mouse Det Debbit	
React Species:	$\frac{1}{1}$	
	WB = 1.5000 - 20000 ELISA = 1.500 - 1000 InC - P = 1.400 - 800 InC - F = 1.400 - 800 Flow - Cut = 1.100 for the section of t	
Applications:	Cyt-Iug/TestiCC-1.100-500IF-1.100-500 (Paratin sections need antigen repair)	
	not yet tested in other applications.	
Molecular weight:	42kDa	
Collular localization	extoplasmic	
Form.	Lyophilized or Liquid	
Concentration.	1mg/ml	
immunogen:	KI H conjugated synthetic pentide derived from human alpha-SMA (165-260/277	
Lsotype:	IoG	
Purification:	affinity purified by Protein A	
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.	
	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized	
C.	antibody is stable at room temperature for at least one month and for greater than a year	
Storage:	when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of	
	antibody the antibody is stable for at least two weeks at 2-4 °C.	
PubMed:	PubMed	
	All eukaryotic cells express Actin, which often constitutes as much as 50% of total	
	cellular protein. Actin filaments can form both stable and labile structures and are crucial	
	components of microvilli and the contractile apparatus of muscle cells. While lower	
	eukaryotes, such as yeast, have only one Actin gene, higher eukaryotes have several	
Product Detail:	isoforms encoded by a family of genes. At least six types of Actin are present in	
	mammalian tissues and fall into three classes. alpha-Actin expression is limited to	
	various types of muscle, whereas beta- and gamma-Actin are the principle constituents	
	or manners in other tissues. Members of the small G I Pase family regulate the	
	organization of the Actin cytoskeleton. Rho controls the assembly of Actin stress fibers	
	and Iocal adhesion. Kac regulates Actin filament accumulation at the plasma membrane.	

Cdc42 stimulates formation of filopodia.
Function:
Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells
Subunit:
Polymerization of globular actin (G-actin) leads to a structural filament (F-actin) in the form of a two-stranded helix. Each actin can bind to 4 others.
Subcellular Location:
Cytoplasm, cytoskeleton.
Post-translational modifications:
Oxidation of Met-46 by MICALs (MICAL1, MICAL2 or MICAL3) to form methionine
sulfoxide promotes actin filament depolymerization. Methionine sulfoxide is produced
stereospecifically, but it is not known whether the (S)-S-oxide or the (R)-S-oxide is produced (By similarity).
DISEASE: Defects in ACTA2 are the cause of aortic aneurysm familial thoracic type 6 (AAT6)
[MIM:611788]. AATs are characterized by permanent dilation of the thoracic aorta
usually due to degenerative changes in the aortic wall. They are primarily associated
with a characteristic histologic appearance known as 'medial necrosis' or 'Erdheim cystic medial necrosis' in which there is degeneration and fragmentation of elastic fibers, loss
of smooth muscle cells, and an accumulation of basophilic ground substance.
Similarity: Relenge to the actin family
Belongs to the actin family.
SWISS:
P68032
Gene ID:
59
Database links:
Entrez Gene: 101021287Baboon
Entrez Gene: 515610Cow
Entrez Gene: 59Human
Entrez Gene: 11475Mouse
Entrez Gene: 733615Pig
Entrez Gene: 100009271Rabbit
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Entrez Gene: 81633 Omim: 102620Hun SwissProt: P627390 SwissProt: P627361 SwissProt: P627371 SwissProt: P627371 SwissProt: P627381 Unigene: 500483Hu Unigene: 213025M Unigene: 195319Ra Unigene: 3114Rat Important Note This product as a therapeutic or di Actin α/α-Actin SMA广泛分布= α蛋白主要用于 包括: 平滑肌瘤 白) 是在所有真 on的主要成分。	an
Omim: 102620Hum SwissProt: P627304 SwissProt: P627371 SwissProt: P627381 Unigene: 500483140 Unigene: 213025M Unigene: 195319Ra Unigene: 3114Rat Important Note This product as a therapeutic or di Actin α/α-Actin SMA广泛分布= α蛋白主要用于 包括: 平滑肌瘤 白) 是在所有真 on的主要成分。	an
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Unigene: 3114Rat Important Note This product as a therapeutic or di Actin α/α-Actin SMA广泛分布= α蛋白主要用于 包括:平滑肌瘤 白)是在所有真 on的主要成分。	t
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therapeutic or di Actin α/α-Actin SMA广泛分布 α蛋白主要用于 包括:平滑肌瘤 白)是在所有真 on的主要成分。	upplied is intended for research use only, not for use in human,
Actin α/α-Actin SMA广泛分布 α蛋白主要用于 包括:平滑肌瘤 白)是在所有真 on的主要成分。	agnostic applications.
SMA广泛分布 α蛋白主要用于 包括:平滑肌瘤 白)是在所有真 on的主要成分。	早一种目有收缩能力的微母蛋白。
α蛋白主要用于 包括:平滑肌瘤 白)是在所有真 on的主要成分。	
包括:平滑肌瘤 白)是在所有真 on的主要成分。	会测骨骼肌 平滑肌 而管平滑肌 心肌和肌原性Tumour
白)是在所有真 on的主要成分。	平滑即肉瘤 横纹即肉瘤以及即上细胞和即上皮瘤 Actin(即动蛋
on的主要成分。	这细胞中都表达的高度保守的蛋白质。它们沿微管组成了Cytoskelet
些平滑即组织由	肌动蛋白至小表认为6种异构形式。它在心脏、骨骼横纹肌组织和其 人
化的。肌动蛋白	肌动蛋白至少表达为6种异构形式。它在心脏、骨骼横纹肌组织和某 1表达,调节其收缩功能。有报导说肌动蛋白在乳房瘤中是高度磷酸
感兴趣 因为编	肌动蛋白至少表达为6种异构形式。它在心脏、骨骼横纹肌组织和某 表达,调节其收缩功能。有报导说肌动蛋白在乳房瘤中是高度磷酸 的功能失调也会导致某种类型的心脏病。平滑肌α肌动蛋白使人更
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些平滑肌组织中 化的。肌动蛋白 感兴趣,因为编	肌动蛋白至少表达为6种异构形式。它在心脏、骨骼横纹肌组织和某















Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (alpha smooth muscle Actin) Polyclonal Antibody, Unconjugated (SL10196R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



