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anti-Actin antibody (C-Term)



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Publications



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Quantity:	100 μg
Target:	Actin (ACTA1)
Binding Specificity:	AA 277-308, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Actin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Purpose:	Rabbit IgG polyclonal antibody for Actin, alpha skeletal muscle(ACTA1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Actin (277-308aa HETTYNSIMKCDIDIRKDLYANNVMSGGTTMY), identical to the related mouse and rat sequences.
Sequence:	HETTYNSIMK CDIDIRKDLY ANNVMSGGTT MY
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Actin, alpha skeletal muscle(ACTA1) detection. Tested with WB, IHC-P in Human, Mouse, Rat. Gene Name: actin, alpha 1, skeletal muscle

Product Details

	Protein Name: Actin, alpha skeletal muscle	
Purification:	Immunogen affinity purified.	
Target Details		
Target:	Actin (ACTA1)	
Alternative Name:	ACTA1 (ACTA1 Products)	
Background:	Actin, a highly conserved protein, is a major component of both the cytoskeletal and contractile structures in the cell types. It varies in amount, being related to the type of differentiation and to the functional state of cells and tissues. The actins exhibit over 90 % sequence homology, but each isoform has a unique NH2-terminal sequence. The isoforms are comprised of three alpha actin, one beta-actin, two gamma-actin. Because the amino acid sequence of the C-terminal is the same for almost all actins, this antibody has been raised using a synthetic peptide corresponding to the C-terminal 11 residues. Synonyms: ACTA antibody ACTA1 antibody Actin alpha skeletal muscle antibody Actin antibody Actin, alpha 1, skeletal muscle antibody actin, alpha 1, skeletal muscle antibody ACTS_HUMAN antibody Alpha skeletal muscle antibody Alpha skeletal muscle Actin antibody alpha skeletal muscle antibody Alpha actin 1 antibody Alpha-actin antibody ASMA antibody CFTD	
	antibody CFTD1antibody CFTDM antibody MPFD antibody NEM1 antibody NEM2 antibody NEM3 antibody nemaline myopathy type 3 antibody	
Gene ID:	58	
UniProt:	P68133	
Pathways:	Caspase Cascade in Apoptosis, Myometrial Relaxation and Contraction, Skeletal Muscle Fibe Development	
Application Details		
Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.	

Application Details

Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by		
	ABIN921231 in IHC(P).		
Restrictions:	For Research Use only		
Handling			
Format:	Lyophilized		
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 μg/mL.		
Concentration:	500 μg/mL		
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.		
Preservative:	Sodium azide		
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which		
	should be handled by trained staff only.		
Handling Advice:	Avoid repeated freezing and thawing.		
Storage:	4 °C/-20 °C		
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month.		
	It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.		
Publications			
Product cited in:	Cui, Wang, Yu, Li, Xie, Gao, Wang, Zhu: "Jia-Shen decoction-medicated serum inhibits		
	angiotensin-II induced cardiac fibroblast proliferation via the TGF-β1/Smad signaling pathway."		
	in: Molecular medicine reports, Vol. 14, Issue 2, pp. 1610-6, (2017) (PubMed).		
	Yan, Chen, Gong, Yin, Zhou, Chaugai, Wang: "miR-21-3p regulates cardiac hypertrophic		
	response by targeting histone deacetylase-8." in: Cardiovascular research, Vol. 105, Issue 3, pp		
	340-52, (2015) (PubMed).		
	Mitsuhashi, Shindo, Shigetomi, Miyamoto, Ubukata: "(+)-Epogymnolactam, a novel autophagy		
	inducer from mycelial culture of Gymnopus sp." in: Phytochemistry , Vol. 114, pp. 163-7, (2015)		

Wu, Sun, Wu, Li, Du, Zeng, Bi, Sun: "Activation of calcium-sensing receptor increases TRPC3/6

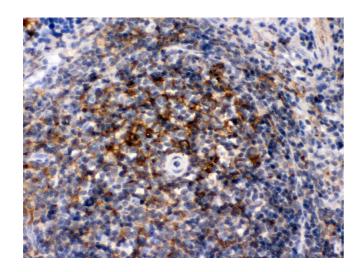
PubMed).

expression in T lymphocyte in sepsis." in: **Molecular immunology**, Vol. 64, Issue 1, pp. 18-25, (2015) (PubMed).

Hong, Zhang, Yang, Wan, Yu, Wang, Feng, Li, Yew: "Expression of dopamine transporter in the different cerebral regions of methamphetamine-dependent rats." in: **Human & experimental toxicology**, Vol. 34, Issue 7, pp. 707-17, (2015) (PubMed).

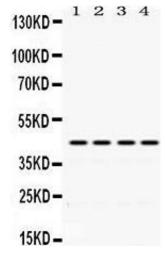
There are more publications referencing this product on: Product page

Images



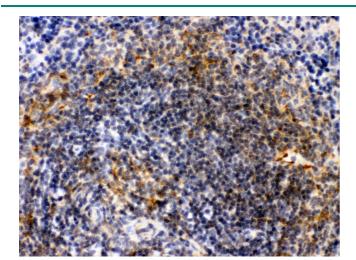
Immunohistochemistry (Paraffin-embedded Sections)

Image 1.



Western Blotting

Image 2.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3.

Please check the product details page for more images. Overall 4 images are available for ABIN3043519.