antibodies -online.com





anti-Actin antibody (C-Term)

4 Images

2

 $400~\mu L$

Publications



Go to Product page

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Quantity:

Target:	Actin (ACTA1)		
Binding Specificity:	AA 346-375, C-Term		
Reactivity:	Human		
Host:	Rabbit		
Clonality:	Polyclonal		
Conjugate:	This Actin antibody is un-conjugated		
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF), Flow Cytometry (FACS)		
Product Details			
Immunogen:	This ACTA1/Alpha-actin antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 346-375 AA from the C-terminal region of human ACTA1/Alpha-actin.		
	detin.		
Clone:	RB35391		
Clone:			
	RB35391		
Isotype:	RB35391 Ig Fraction This ACTA1/?-actin antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 345-376 amino acids from the C-terminal region of human ACTA1/?-		

Target Details

Target:	Actin (ACTA1)		
Abstract:	ACTA1 Products		
Background:	The product encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This actin is an alpha actin that is found in skeletal muscle. Mutations in this gene cause nemaline myopathy type 3, congenital myopathy with excess of thin myofilaments, congenital myopathy with cores, and congenital myopathy with fiber-type disproportion, diseases that lead to muscle fiber defects. Synonyms: Actin, alpha skeletal muscle, ACTA1, ACTA		
Molecular Weight:	42051 Da		
Gene ID:	58		
UniProt:	P68133		
Pathways:	Caspase Cascade in Apoptosis, Myometrial Relaxation and Contraction, Skeletal Muscle Fiber Development		
Application Details			
Application Notes:	WB = 1:1000, IHC (p) = 1:10-50, IF = 1:10-50, FACS = 1:10-50		
Restrictions:	For Research Use only		
Handling			
Format:	Liquid		
Concentration:	0.5 mg/mL		
Buffer:	PBS with 0.09 % (W/V) 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.		
Storage:	4 °C/-20 °C		
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in smal		

aliquots to prevent freeze-thaw cycles.

Expiry Date:

6 months

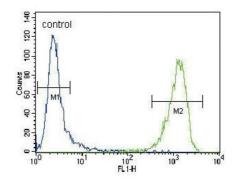
Publications

Product cited in:

Xiao, Gao, Gao, Zhao, Hong, Li, Yao, Cheng, Zhou: "Directed Differentiation of Zebrafish Pluripotent Embryonic Cells to Functional Cardiomyocytes." in: **Stem cell reports**, Vol. 7, Issue 3, pp. 370-382, (2017) (PubMed).

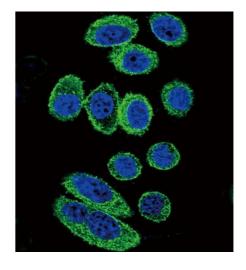
Ying, Xie, Bai, Chen, Wang, Zhang, Morishita, Sun, Rajagopalan: "Exposure to concentrated ambient particulate matter induces reversible increase of heart weight in spontaneously hypertensive rats." in: **Particle and fibre toxicology**, Vol. 12, Issue 1, pp. 15, (2015) (PubMed).

Images



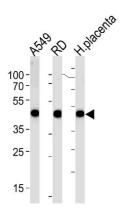
Flow Cytometry

Image 1. ACTA1/α-actin Antibody (C-term) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goatanti-rabbit secondary antibodies were used for the analysis.



Immunofluorescence

Image 2. Confocal immunofluorescent analysis of ACTA1/ α -actin Antibody (C-term) with A549 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green).DI was used to stain the cell nuclear (blue).



Western Blotting

Image 3. ACTA1/ α -actin Antibody (C-term) western blot analysis in A549,RD cell line and human placenta lysates (35 μ g/lane).This demonstrates the ACTA1/ α -actin antibody detected the ACTA1/ α -actin protein (arrow).

Please check the product details page for more images. Overall 4 images are available for ABIN658563.