Pan-Actin (D18C11) Rabbit mAb



_



Orders:877-616-CELL (2355)
orders@cellsignal.comSupport:877-678-TECH (8324)Web:info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IHC-P, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 45	Source/Isotype: Rabbit IgG	UniProt ID: #P60709, #P68133, #P63261, #P68032, #P62736, #P63267	Entrez-Gene Id: 60, 58, 71, 70, 59, 72	
Product Usage Information		Application Western Blotting Immunohistochemist Immunofluorescence		stry)		Dilution 1:1000 1:200 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
		For a carrier free (BSA	and azide free) ver	sion of this product se	e product #99736.		
Specificity/Sensitivity		Pan-Actin (D18C11) Rabbit mAb recognizes endogenous levels of total actin protein (all isoforms).					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human β -actin protein.					
Background		Actin, a ubiquitous eu are known in mamma expressed, controlling cytoplasmic β - and γ -a For this reason, antibo α -skeletal actin are ex actins, α - and γ -actin, respectively. These act mainly as a fibrous po such as cytokinesis, er actin, resulting in an in stabilizes F-actin fragr shown that actin is hy apoptotic conditions h research studies (5-7). muscle proteolysis (7)	Is. Nonmuscle β - and cell structure and r octin protein sequer odies raised to β -act pressed in striated are found primarily tin isoforms regulat lymer, F-actin. In res ndocytosis, or stress nerease in the mono- nents and promote perphosphorylated as been observed r Actin cleavage by c	d γ-actin, also known notility (1). While all ac ces differ by only four in may cross-react wit ardiac and skeletal m in vascular smooth m e the contractile poter sponse to cytoskeletal c, cofilin promotes frac pmeric globular form, formation of new act in primary breast tum <i>n vitro</i> and in cardiac ac	as cytoplasmic actin, a trin isoforms are highly biochemically similar h γ-actin, and vice vers uscles, respectively; tw uscle and enteric smoo ntial of muscle cells (1) reorganizing signals c gmentation and depoly G-actin (3). The ARP2/2 in filaments (3). Resea ors (4). Cleavage of act and skeletal muscle, as	re ubiquitously y homologous, amino acids (2). ca. α-cardiac and to smooth muscle oth muscle, . Actin exists luring processes ymerization of F- complex rch studies have tin under s shown in	
Background Re	ferences	1. Herman, I.M. (1993) 2. Perrin, B.J. and Erva 3. Condeelis, J. (2001) 4. Lim, Y.P. et al. (2004) 5. Kayalar, C. et al. (199 6. Communal, C. et al. 7. Du, J. et al. (2004) J (sti, J.M. (2010) <i>Cyto.</i> <i>Trends Cell Biol</i> 11,) <i>Clin Cancer Res</i> 10 96) <i>Proc Natl Acad S</i> (2002) <i>Proc Natl Ac</i>	skeleton (Hoboken) 67 288-93. , 3980-7. ci U S A 93, 2234-8. ad Sci U S A 99, 6252-6			
Species Reactiv	vity	Species reactivity is de	etermined by testing	ı in at least one appro	ved application (e.g., w	vestern blot).	
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key		W: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)					
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey					

Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.		
	All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.		
Limited Uses	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.		
	Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purpose, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.		