MAPKAPK-5 (D70A10) Rabbit mAb





Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	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	Reactivity: H R Mk	Sensitivity: Endogenous	MW (kDa): 58	Source/Isotype: Rabbit IgG	UniProt ID: #Q8IW41	Entrez-Gene Id: 8550		
Product Usage Information	9	Application Western Blotting			Dilution 1:1000			
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.						
			070A10) Rabbit mAb recognizes endogenous levels of total MAPKAPK-5 protein. This s not cross-react with MAPKAPK-2 or MAPKAPK-3.					
Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide residues surrounding Gly367 of human MAPKAPK-5 protein.				synthetic peptide co	prresponding to			
Background		MAPKAPK-5 belongs to the mitogen-activated protein kinase (MAPK) activated protein kinases (MK) subfamily that includes MAPKAPK-2/MK2 and MK3/3pK. The MK subfamily is part of a family of protein kinase subfamilies downstream of MAPK pathways and includes ribosomal S6 kinase (RSKs), mitogen and stress activated kinases (MSKs) and MAPK-interacting kinases (MNKs). All MKs are activated by MAPK pathways and mediate important processes (e.g. gene expression, cell cycle progression) and have been implicated in inflammation and cancer (1,2). MAPKAPK-5 shows binding to and activation by p38 MAPK and extracellular-regulated kinases (Erk) (3,4). MAPKAPK-5 was shown to be activated by Erk3 and act as a chaperone to Erk3 (5,6). While overexpressed MAPKAPK-5 shares similar substrates with MAPKAPK-2, such as HSP27 and glycogen synthase, recent work with MAPKAPK-5 knock-out mice indicates distinct substrates and functional properties (7).						
Background Re	eferences	 Roux, P.P. and Blenis, J. (2004) <i>Microbio. I Mol. Biol. Rev.</i> 68, 320-344. Gaestel, M. (2006) <i>Nat. Rev. Mol. Cell Biol.</i> 7, 120-130. New, L. et al. (1998) <i>EMBO J.</i> 17, 3372-3384. Ni, H. et al. (1998) <i>Biochem. Biophys. Res. Commun.</i> 243, 492-496. Schumacher, S. et al. (2004) <i>EMBO J.</i> 23, 4770-4779. Seternes, O.M. et al. (2004) <i>EMBO J.</i> 23, 4780-4791. Shi, Y. et al. (2003) <i>Mol. Cell Biol.</i> 23, 7732-7741. 						
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	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 K	ey	W: Western Blotting						
Cross-Reactivit	ty Key	H: Human R: Rat Mk: Monkey						
Trademarks and Patents Cell Signaling Technology is a trade				rk of Cell Signaling Technology, Inc.				
	All other trademarks are the property of their respective owners. Visit cellsignal.com/tra 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.						
				se Only or a similar labe or other regulatory for				

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 purposes, 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.