## ROCK1 (C8F7) Rabbit mAb





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Applications: W, IP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 160	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #Q13464	Entrez-Gene Id: 6093		
Product Usage Information	1	<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:100			
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.				ol and less than		
Specificity/Sensitivity		ROCK1 (C8F7) Rabbit mAb detects endogenous levels of total ROCK1 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the central sequence of human ROCK1.						
BackgroundROCK (Rho-associated kinase), a family of serine/threonine kinases, is an important downs of Rho-GTPase and plays an important role in Rho-mediated signaling. Two isoforms of RO been identified: ROCK1 and ROCK2. ROCK is composed of N-terminal catalytic, coiled-coil, a terminal PH (pleckstrin homology) domains. The C-terminus of ROCK negatively regulates activity (1,2). ROCK1 is cleaved by caspase-3 at a conserved DETD1113/G sequence resultin its C-terminal inhibitory domain (3). ROCK2 is directly cleaved by granzyme B (grB). Cleavag ROCK and leads to phosphorylation of myosin light chain (MLC) and inhibition of myosin pl (4). This phosphorylation may account for the mechanism by which Rho regulates cytokine motility, cell membrane blebbing during apoptosis, and smooth muscle contraction (5-7).					of ROCK have l-coil, and C- ulates its kinase esulting in loss of leavage activates osin phosphatase tokinesis, cell			
Background References		<ol> <li>Nakagawa, O. et al. (1996) <i>FEBS Lett.</i> 392, 189-193.</li> <li>Lee, J.H. et al. (2004) <i>J. Cell. Biol.</i> 167, 327-337.</li> <li>Sebbagh, M. et al. (2005) <i>J. Exp. Med.</i> 201, 465-471.</li> <li>Sebbagh, M. et al. (2001) <i>Nat Cell Biol</i> 3, 346-52.</li> <li>Amano, M. et al. (1996) <i>J. Biol. Chem.</i> 271, 20246-20249.</li> <li>Kureishi, Y. et al. (1997) <i>J. Biol. Chem.</i> 272, 12257-12260.</li> <li>Totsukawa, G. et al. (2000) <i>J. Cell Biol.</i> 150, 797-806.</li> </ol>						
Species Reactiv	vity	Species reactivity is det	ermined by testing	g in at least one approve	ed 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.				ו 5% w/v BSA, 1X		
Applications K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat Mk: Monkey						
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