4035 Store at -20C

ROCK1 (C8F7) Rabbit mAb



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Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 160	Source/Isotype: Rabbit	UniProt ID: #Q13464	Entrez-Gene Id: 6093
Product Usage Information	Aŗ	pplication		Dilution		
	We	estern Blotting		1:1000		
	Im	munoprecipitation			1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sens	sitivity RO	ROCK1 (C8F7) Rabbit mAb detects endogenous levels of total ROCK1 protein.				
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the central sequence of human ROCK1.				
Background	Rho idei (ple RO inhi lea pho	ROCK (Rho-associated kinase), a family of serine/threonine kinases, is an important downstream target of Rho-GTPase and plays an important role in Rho-mediated signaling. Two isoforms of ROCK have been identified: ROCK1 and ROCK2. ROCK is composed of N-terminal catalytic, coiled-coil, and C-terminal PH (pleckstrin homology) domains. The C-terminus of ROCK negatively regulates its kinase activity (1,2). ROCK1 is cleaved by caspase-3 at a conserved DETD1113/G sequence resulting in loss of its C-terminal inhibitory domain (3). ROCK2 is directly cleaved by granzyme B (grB). Cleavage activates ROCK and leads to phosphorylation of myosin light chain (MLC) and inhibition of myosin phosphatase (4). This phosphorylation may account for the mechanism by which Rho regulates cytokinesis, cell motility, cell membrane blebbing during apoptosis, and smooth muscle contraction (5-7).				
1. Nakagawa, O. et al. (1992) 2. Lee, J.H. et al. (2004) J. 3. Sebbagh, M. et al. (2001) 4. Sebbagh, M. et al. (2001) 5. Amano, M. et al. (1996) 6. Kureishi, Y. et al. (1997) 7. Totsukawa, G. et al. (2001)				7, 327-337. 1. 201, 465-471. 1. 3, 346-52. 1. 271, 20246-20249. 1. 272, 12257-12260.		

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western 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

 $\textbf{WB:} \ \textbf{Western Blotting IP:} \ \textbf{Immunoprecipitation}$

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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