#14396 Store at -20C

M-RIP (D8G8R) Rabbit mAb



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Applications: F WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 130-140	Source/Isotype: Rabbit IgG	UniProt ID: #Q6WCQ1	Entrez-Gene Id: 23164
Product Usage Information	Ар	plication		Dilution		
	We	stern Blotting		1:1000		
	lmı	nunoprecipitation		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 / Sensitiv	ity M-R	M-RIP (D8G8R) Rabbit mAb recognizes endogenous levels of total M-RIP protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro62 of human M-RIP protein.				
Background	to a hom the pho myc enh myc	Myosin phosphatase-rho interacting protein (M-RIP), also known as p116RIP, RIP3, and MPRIP, localizes to actin-myosin filaments regulating cytoskeletal dynamics (1-3). M-RIP contains amino-terminal pleckstrin homology domains, carboxyl-terminal coiled-coil domains, and was originally identified to associate with the myosin phosphatase complex. M-RIP binds to MBS/MYRT, the myosin binding subunit of myosin phosphatase, as well as RhoA (1-3). Phosphorylation of MYRT by Rho-associated kinase (ROCK) inhibits myosin phosphatase activity, resulting in increased levels of phosphorylation on myosin light chain, and enhanced contractility (4,5). M-RIP may function as a scaffolding protein for the complex between the myosin phosphatase complex, Rho/ROCK, and actin (2,6). Silencing of M-RIP results in disassembly of the complex, increased phosphorylation of myosin light chain, and changes to cytoskeletal dynamics (7,8).				
Background Referen	2. M 3. G 4. K 5. B 6. R 7. S	 Surks, H.K. et al. (2003) J Biol Chem 278, 51484-93. Mulder, J. et al. (2004) Mol Biol Cell 15, 5516-27. Gebbink, M.F. et al. (1997) J Cell Biol 137, 1603-13. Kimura, K. et al. (1996) Science 273, 245-8. Birukova, A.A. et al. (2004) J Cell Physiol 201, 55-70. Riddick, N. et al. (2008) J Cell Biochem 103, 1158-70. Surks, H.K. et al. (2005) J Biol Chem 280, 42543-51. Koga, Y. and Ikebe, M. (2005) J Biol Chem 280, 4983-91. 				

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

WB: Western Blotting IP: 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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