14634 Store at -200

Diap1 (E1E4K) Rabbit mAb



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Applications: F WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 150	Source/Isotype: Rabbit IgG	UniProt ID: #O60610	Entrez-Gene Id 1729	
Product Usage Information	Application			Dilution			
	We	stern Blotting			1:1000		
	Imr	nunoprecipitation		1:50			
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	rity Diap	y Diap1 (E1E4K) Rabbit mAb recognizes endogenous levels of total Diap1 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg15 of human Diap1 protein.					
Background	cata mDi Rho dyna mDi fiber (SRI med mDi to th Rho	Formins are a family of large multidomain actin nucleation/polymerization proteins characterized by their catalytic FH2 domains. The mammalian diaphanous-related formin (mDia/diap) subfamily, including mDia1/diap1, mDia2/diap3 and mDia3/diap2, are effectors of Rho family small GTPases. In response to Rho, mDia/diap proteins are involved in the regulation of multiple cell functions including cytoskeletal dynamics, migration, adhesion, polarity and cell shape (reviewed in 1,2). mDia1/diap1 is activated by GTP-bound Rho, leading to Rho-associated kinase (ROCK)-dependent stress fiber formation (3,4). Rho activation of mDia1 has also been shown to regulate serum response factor (SRF)-dependent transcription (5), and has been implicated in human cancer phenotypes such as rasmediated transformation, metastasis and invasion (reviewed in 6). mDia3/diap2, activated by the Rho family small GTPase cdc42, regulates the attachment of microtubules to the kinetochore during mitosis in mammalian cells (7). Rho-dependent activation of mDia2/diap3 is important in assembly of the contractile ring during cytokinesis (8,9).					
Background Referen	2. C 3. W	 Schönichen, A. and Geyer, M. (2010) Biochim Biophys Acta 1803, 152-63. Chesarone, M.A. et al. (2010) Nat Rev Mol Cell Biol 11, 62-74. Watanabe, N. et al. (1999) Nat Cell Biol 1, 136-43. Ishizaki, T. et al. (2001) Nat Cell Biol 3, 8-14. 					

- 5. Copeland, J.W. and Treisman, R. (2002) Mol Biol Cell 13, 4088-99.
- 6. Narumiya, S. et al. (2009) Cancer Metastasis Rev 28, 65-76.
- 7. Yasuda, S. et al. (2004) Nature 428, 767-71.
- 8. Watanabe, S. et al. (2010) Mol Biol Cell 21, 3193-204.
- 9. Watanabe, S. et al. (2008) Mol Biol Cell 19, 2328-38.

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

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry

milk, 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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