## Diap2 Antibody Cell Signaling TECHNOLOGY\* Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 130	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #O60879	Entrez-Gene Id: 1730
Product Usage Information Storage	2			i), 150 mM NaCl, 100 μg/	<b>Dilution</b> 1:1000 1:50 /ml BSA and 50% gl	ycerol. Store at –
Specificity/Sensitivity		20°C. Do not aliquot the antibody. Diap2 Antibody recognizes endogenous levels of total diap2 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human diap2 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		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 R	eferences	2. Chesarone, M.A. et a 3. Watanabe, N. et al. ( 4. Ishizaki, T. et al. (200	al. (2010) <i>Nat Rev M</i> (1999) <i>Nat Cell Biol</i> 01) <i>Nat Cell Biol</i> 3, 8 Freisman, R. (2002) 2009) <i>Cancer Meta</i> 04) <i>Nature</i> 428, 767 2010) <i>Mol Biol Cell</i>	1, 136-43. 3-14. <i>Mol Biol Cell</i> 13, 4088-99 <i>stasis Rev</i> 28, 65-76. -71. 21, 3193-204.		
Species Reacti	vity	Species reactivity is de	etermined by testing	g in at least one approve	ed 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		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
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