MBIN-1 Antibody Cell Signaling 0rders: 877-616-CELL (2355)
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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 80-85	Source/Isotype: Rabbit	UniProt ID: #Q15025	Entrez-Gene Id: 10318
Product Usage Information Storage		Application Western Blotting Immunoprecipitation	ium HEPES (nH 7 5) 150 mM NaCl 100 uov	Dilution 1:1000 1:100	vcerol Store at -
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		ABIN-1 Antibody detects endogenous levels of total ABIN-1 protein.				
Species predicted to react based on 100% sequence homology		Monkey				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human ABIN-1 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		The ABIN family (ABIN-1, -2, and -3) is a group of adaptor proteins that associate and cooperate with A20/TNFAIP3 (1), a ubiquitin editing protein that inhibits the key inflammatory transcription factor NF- KB (2-4). Mechanistically, A20 acts by regulating the ubiquitination of the kinase RIP, which leads to inhibition of the IKK complex (5). ABIN-1 (Naf1/TNIP1) was identified based on its binding to A20 (6), as well as the HIV protein Nef-1 (7). Overexpression of ABIN-1 inhibits NF-KB activation by a number of stimuli including TNF, IL-1, and LPS. It is widely expressed and can be induced by NF-KB, providing a negative feedback loop of NF-KB signaling. In addition to binding to A20, ABIN-1 can function on other key components of NF-KB signaling including IKKy/NEMO (8) and NF-KB family members p100 and p105 (9), and can also inhibit ERK signaling (10). Knockout mice of ABIN-1 are embryonic lethal, with fetal liver apoptosis, anemia and hypoplasia (11). ABIN-1 deficient cells are hypersensitive to TNF-mediated apoptosis.				
Background References		 Verstrepen, L. et al. (2009) <i>Biochem Pharmacol</i> 78, 105-14. Beyaert, R. et al. (2000) <i>Biochem Pharmacol</i> 60, 1143-51. Lee, E.G. et al. (2000) <i>Science</i> 289, 2350-4. Dixit, V.M. et al. (1990) <i>J Biol Chem</i> 265, 2973-8. Wertz, I.E. et al. (2004) <i>Nature</i> 430, 694-9. Heyninck, K. et al. (1999) <i>J Cell Biol</i> 145, 1471-82. Fukushi, M. et al. (1999) <i>FBS Lett</i> 442, 83-8. Mauro, C. et al. (2006) <i>J Biol Chem</i> 281, 18482-8. Cohen, S. et al. (2002) <i>Biochem Biophys Res Commun</i> 389, 205-10. Zhang, S. et al. (2009) <i>Nature</i> 457, 906-9. 				
Species Reactiv	vity	Species reactivity is det	termined 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				
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