

#4664 Store at -20°C

ABIN-1 Antibody


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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R	Endogenous	80-85	Rabbit	#Q15025	10318

Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:100
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	<p>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-κB (2-4). Mechanistically, A20 acts by regulating the ubiquitination of the kinase RIP, which leads to inhibition of the IKK complex (5).</p> <p>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-κB activation by a number of stimuli including TNF, IL-1, and LPS. It is widely expressed and can be induced by NF-κB, providing a negative feedback loop of NF-κB signaling. In addition to binding to A20, ABIN-1 can function on other key components of NF-κB signaling including IKKγ/NEMO (8) and NF-κB 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.</p>	
Background References	1. Verstrepen, L. et al. (2009) <i>Biochem Pharmacol</i> 78, 105-14. 2. Beyaert, R. et al. (2000) <i>Biochem Pharmacol</i> 60, 1143-51. 3. Lee, E.G. et al. (2000) <i>Science</i> 289, 2350-4. 4. Dixit, V.M. et al. (1990) <i>J Biol Chem</i> 265, 2973-8. 5. Wertz, I.E. et al. (2004) <i>Nature</i> 430, 694-9. 6. Heyninck, K. et al. (1999) <i>J Cell Biol</i> 145, 1471-82. 7. Fukushi, M. et al. (1999) <i>FEBS Lett</i> 442, 83-8. 8. Mauro, C. et al. (2006) <i>J Biol Chem</i> 281, 18482-8. 9. Cohen, S. et al. (2009) <i>Biochem Biophys Res Commun</i> 389, 205-10. 10. Zhang, S. et al. (2002) <i>Biochem Biophys Res Commun</i> 297, 17-23. 11. Oshima, S. et al. (2009) <i>Nature</i> 457, 906-9.	

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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