4625

A20/TNFAIP3 Antibody



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

Applications: W	Reactivity:	Sensitivity: Endogenous	MW (kDa): 82	Source/Isotype: Rabbit	UniProt ID: #P21580	Entrez-Gene Id: 7128
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		A20/TNFAIP3 Antibody detects endogenous levels of total A20/TNFAIP3 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly267 of human A20/TNFAIP3. Antibodies were purified by protein A and peptide affinity chromatography.				
Background		A20, also referred to as TNF-α-induced protein 3 (TNFAIP3), is cytokine-inducible protein that functions to inhibit apoptosis and activate NF-κB (1,2). It was first identified as a TNF-α inducible primary response gene in human umbilical vein endothelial cells, and encodes a 790-amino acid protein containing seven Cys2/Cys2-zinc finger motifs (3). Constitutive expression of A20 is observed in lymphoid tissues (4), but it is transiently expressed in a variety of cell types in response to inflammatory signals such as TNF-α (3,5), IL-1 (3,5), phorbol esters (6), and LPS (7). Expression of A20 can confer resistance to apoptosis and NF-κB activation triggered by these signals, probably through interference with TRAF (TNF receptor associated factor) family members (8,9), and interaction with the NF-κB inhibiting protein ABIN (10). Studies also show that A20 contains site-specific ubiquitin modifying activity that can contribute to its biological functions (11,12). The amino-terminus of A20 contains deubiquitinating (DUB) activity for Lys63 branches, such as those found in TRAF6 and RIP, while the carboxyl-terminus contains ubiquitin ligase (E3) activity for Lys48 branches of the same substrates and leads to their degradation (12).				
Background References		1. Beyaert, R. et al. (2000) <i>Biochem Pharmacol</i> 60, 1143-51. 2. Lee, E.G. et al. (2000) <i>Science</i> 289, 2350-4. 3. Dixit, V.M. et al. (1990) <i>J Biol Chem</i> 265, 2973-8. 4. Tewari, M. et al. (1995) <i>J Immunol</i> 154, 1699-706. 5. Jäättelä, M. et al. (1996) <i>J Immunol</i> 156, 1166-73. 6. Laherty, C.D. et al. (1993) <i>J Biol Chem</i> 268, 5032-9. 7. Hu, X. et al. (1998) <i>Blood</i> 92, 2759-65. 8. Song, H.Y. et al. (1996) <i>Proc Natl Acad Sci USA</i> 93, 6721-5. 9. Heyninck, K. and Beyaert, R. (1999) <i>FEBS Lett</i> 442, 147-50. 10. Heyninck, K. et al. (1999) <i>J Cell Biol</i> 145, 1471-82. 11. Evans, P.C. et al. (2004) <i>Biochem J</i> 378, 727-34. 12. Lin, S.C. et al. (2008) <i>J Mol Biol</i> 376, 526-40.				

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 W: Western Blotting

Cross-Reactivity Key H: Human

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