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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 55-60	Source/Isotype: Rabbit IgG	UniProt ID: #Q93038	Entrez-Gene Id: 8718		
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, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sens	sitivity	DR3 (D5Q2R) Rabbit mAb recognizes endogenous levels of total DR3 protein.						
Source / Purific	Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala80 of human DR3 protein. The antigen resides within the extracellular dom of DR3.					rresponding to tracellular domain		
Background		The tumor necrosis factor receptor family, which includes TNF-RI, Fas, DR3, DR4, DR5, and DR6, plays an important role in the regulation of apoptosis in various physiological systems (1,2). The receptors are activated by a family of cytokines that include TNF, FasL, and TNF-related apoptosis-inducing ligand (TRAIL). They are characterized by a highly conserved extracellular region containing cysteine-rich repeats and a conserved intracellular region of about 80 amino acids termed the death domain (DD). The DD is important for transducing the death signal by recruiting other DD containing adaptor proteins (FADD, TRADD, RIP) to the death-inducing signaling complex (DISC), resulting in activation of caspases. DR3/WSL-1/Apo-3/TRAMP/LARD is a TNFR family member containing the characteristic extracellular cysteine-repeats, transmembrane region, and an intracellular DD (3-7). DR3 is activated by its ligand Apo-3L/TWEAK to induce apoptosis and activation of NF-kB (8,9). Like TNF-R1, DR3 binds to the DD adaptor protein TRADD, which can then associate with other DD proteins like FADD and RIP as well as members of the TRAF family (3,4). Tissue expression of DR3 is very restricted, primarily seen on the surface of activated thymocytes and lymphocytes and plays an important role in thymocyte negative selection (3,4,10). Studies have also indicated an association with DR3 and rheumatoid arthritis (11,12).						
Background References		1. Nagata, S. (1997) <i>Ce</i> 2. Thorburn, A. (2004) 3. Chinnaiyan, A.M. et a 4. Kitson, J. et al. (1996 5. Marsters, S.A. et al. (197 7. Screaton, G.R. et al. (197 8. Marsters, S.A. et al. (200 10. Wang, E.C. et al. (200 11. Osawa, K. et al. (200 12. Borysenko, C.W. et	<i>ll</i> 88, 355-65. <i>Cell Signal</i> 16, 139- al. (1996) <i>Science</i> 2) <i>Nature</i> 384, 372-5 (1996) <i>Curr Biol</i> 6, 7 (1997) <i>Immunity</i> 6, 7 (1997) <i>Proc Natl Ac</i> (1998) <i>Curr Biol</i> 8, 9 (1998) <i>Curr Biol</i> 8	44. 274, 990-2. 5. 1669-76. 9-88. <i>cad Sci U S A</i> 94, 4615-9. 525-8. 135-41. 1, 3451-61. 5, 439-43. <i>Biophys Res Commun</i> 3	28, 794-9.			
Species Reactiv	ity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	uffer	IMPORTANT: For wester TBS, 0.1% Tween® 20 a	ern blots, incubate at 4°C with gentle s	ate membrane with diluted primary antibody in 5% w/v BSA, 1X tle shaking, overnight.				
Applications Ke	У	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivity	y Key	H: Human						
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