

CD20 Antibody



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Applications: W, IF-F	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 30-50	Source/Isotype: Rabbit	UniProt ID: #P19437	Entrez-Gene Id: 12482
Product Usage Information		Application Western Blotting Immunofluorescence (Frozen)			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity		CD20 Antibody recognizes endogenous levels of total CD20 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of mouse CD20 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		B-lymphocyte antigen CD20 (also known as MS4A1; Membrane-spanning 4-domains subfamily A member 1) is a cell surface phosphoprotein involved in the regulation of B cell activation and proliferation (1,2). It is commonly used as a marker to identify B cells and is expressed throughout B cell development, up until their differentiation into plasma cells. CD20 has no known ligand, and its expression and function are largely conserved between human and mouse (1-3). Evidence suggests that CD20 is necessary for store operated calcium (SOC) entry, which leads to elevated cytoplasmic calcium levels required for B cell activation (4,5). Anti-CD20 antibody immunotherapy depletes B cells by activation of the innate monocytic network and is a common treatment for B cell lymphomas, leukemias, and autoimmune diseases (6).				
Background R	eferences	1. Stashenko, P. et al. (1980) <i>J Immunol</i> 125, 1678-85. 2. Tedder, T.F. et al. (1985) <i>J Immunol</i> 135, 973-9. 3. Tedder, T.F. et al. (1988) <i>J Immunol</i> 141, 4388-94. 4. Bubien, J.K. et al. (1993) <i>J Cell Biol</i> 121, 1121-32. 5. Li, H. et al. (2003) <i>J Biol Chem</i> 278, 42427-34. 6. Uchida, J. et al. (2004) <i>J Exp Med</i> 199, 1659-69.				

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 IF-F: Immunofluorescence (Frozen)

Cross-Reactivity Key M: Mouse

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