

:9051

Dectin-1 Antibody



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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 14-45	Source/Isotype: Rabbit	UniProt ID: #Q9BXN2	Entrez-Gene Id: 64581
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		Dectin-1 Antibody recognizes endogenous levels of total Dectin-1 protein. This antibody cross-reacts with an 80 kDa protein of unknown origin. Alternative splicing of the Dectin-1 transcript can lead to eight isoforms with predicted molecular weights ranging from 5-27 kDa. Glycosylation causes Dectin-1 to run higher than its predicted molecular weight.				
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 Dectin-1 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background	dendritic cells, neutro different isoforms, ge immunity by acting as some bacteria (5,6). D ITAM-like motif, a tran (5). Dectin-1 recognize ITAM-like motif by rec	so known as Clec7a, is a C-type lectin receptor expressed by macrophages, monocytes, lls, neutrophils, and a subset of $\gamma\delta$ T cells (1,2). Dectin-1 is a glycoprotein with eight offorms, generated through alternative splicing (3-5). It plays an important role in anti-fungally acting as a pattern recognition receptor for β -glucans found on the cell wall of fungi and ria (5,6). Dectin-1 is composed of a short amino-terminal cytoplasmic domain containing an otif, a transmembrane domain, and an extracellular carboxy-terminal C-type lectin domain recognizes β -glucans through its C-type lectin domain and transduces signals through its otif by recruiting and activating Syk (7,8). Dendritic cells activated through Dectin-1 ferentiation of Th17 cells by producing IL-6 and IL-23 (9).				
Background References		1. Taylor, P.R. et al. (2002) <i>J Immunol</i> 169, 3876-82. 2. Martin, B. et al. (2009) <i>Immunity</i> 31, 321-30. 3. Ariizumi, K. et al. (2000) <i>J Biol Chem</i> 275, 20157-67. 4. Kato, Y. et al. (2006) <i>Biol Pharm Bull</i> 29, 1580-6. 5. Willment, J.A. et al. (2001) <i>J Biol Chem</i> 276, 43818-23. 6. Brown, G.D. and Gordon, S. (2001) <i>Nature</i> 413, 36-7. 7. Rogers, N.C. et al. (2005) <i>Immunity</i> 22, 507-17. 8. Underhill, D.M. et al. (2005) <i>Blood</i> 106, 2543-50. 9. LeibundGut-Landmann, S. et al. (2007) <i>Nat Immunol</i> 8, 630-8.				
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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