## کې Dectin-1/Clec7a (E1X3Z) Rabbit mAb





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Applications: W, IP, FC-FP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 14-45	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q9BXN2	<b>Entrez-Gene Id:</b> 64581		
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation Flow Cytometry (Fixed/Permeabilized)		<b>Dilution</b> 1:1000 1:200 1:400				
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/Sen	city/Sensitivity Dectin-1/Clec7a (E1X3Z) Rabbit mAb recognizes endogenous levels of total Decti				ls of total Dectin-1	-1 protein.		
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human Dectin-1 protein.						
Background		Dectin-1, also known as Clec7a, is a C-type lectin receptor expressed by macrophages, monocytes, dendritic cells, neutrophils, and a subset of $\gamma\delta$ T cells (1,2). Dectin-1 is a glycoprotein with eight different isoforms, generated through alternative splicing (3-5). It plays an important role in anti-fungal immunity by acting as a pattern recognition receptor for $\beta$ -glucans found on the cell wall of fungi and some bacteria (5,6). Dectin-1 is composed of a short amino-terminal cytoplasmic domain containing an ITAM-like motif, a transmembrane domain, and an extracellular carboxy-terminal C-type lectin domain (5). Dectin-1 recognizes $\beta$ -glucans through its C-type lectin domain and transduces signals through its ITAM-like motif by recruiting and activating Syk (7,8). Dendritic cells activated through Dectin-1 promote differentiation of Th17 cells by producing IL-6 and IL-23 (9).						
Background Re	eferences	<ol> <li>Taylor, P.R. et al. (2002) <i>J Immunol</i> 169, 3876-82.</li> <li>Martin, B. et al. (2009) <i>Immunity</i> 31, 321-30.</li> <li>Ariizumi, K. et al. (2000) <i>J Biol Chem</i> 275, 20157-67.</li> <li>Kato, Y. et al. (2006) <i>Biol Pharm Bull</i> 29, 1580-6.</li> <li>Willment, J.A. et al. (2001) <i>J Biol Chem</i> 276, 43818-23.</li> <li>Brown, G.D. and Gordon, S. (2001) <i>Nature</i> 413, 36-7.</li> <li>Rogers, N.C. et al. (2005) <i>Immunity</i> 22, 507-17.</li> <li>Underhill, D.M. et al. (2005) <i>Blood</i> 106, 2543-50.</li> <li>LeibundGut-Landmann, S. et al. (2007) <i>Nat Immunol</i> 8, 630-8.</li> </ol>						
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	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 K	ey	W: Western Blotting IP: Immunoprecipitation FC-FP: Flow Cytometry (Fixed/Permeabilized)						
Cross-Reactivit	ty Key	H: Human						
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