Datasheet: MCA2289FB BATCH NUMBER 166556

Description:	RAT ANTI MOUSE DECTIN-1:FITC
Specificity:	DECTIN-1
Other names:	CD369
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	2A11
lsotype:	lgG2b
Quantity:	0.5 mg

Product Details

Applications	This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <u>www.bio-</u> rad-antibodies.com/protocols.					
		Yes No	Not Determined	Suggested Dilution		
	Flow Cytometry	-		1/5 - 1/50		
	Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.					
Target Species	Mouse					
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid					
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)			
	FITC	490	525			
Preparation	Purified IgG prepared b supernatant	by affinity chromatog	raphy on Protein G froi	m tissue culture		
Buffer Solution	Phosphate buffered saline					
Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin					
Approx. Protein	IgG concentration 0.5 n	ng/ml				

Concentrations

Immunogen	Dectin-1 transfected NIH3T3 cells and recombinant soluble Dectin-1.				
External Database Links	UniProt: <u>Q6QLQ4</u> <u>Related reagents</u> Entrez Gene: <u>56644</u> Clec7a <u>Related reagents</u>				
Synonyms	Bgr, Clecsf12, Dectin1				
RRID	AB_566382				
Fusion Partners	Spleen cells from immunized Fischer rats were fused with cells of the rat Y3 myeloma cell line				
Specificity	Rat anti Mouse dectin-1 antibody, clone 2A11 recognizes murine beta-glucan receptor, also known as dectin-1 or CD369. Dectin-1 is predominantly expressed by cells of the monocyte/macrophage and neutrophil lineages, but also at lower levels by dendritic cells and a subpopulation of T cells.				
	As a major leucocyte receptor for beta-glucan this molecule may have a key role in the immunomodulatory effects of beta-glucans and in the host response to fungal pathogens. Dectin-1 may stimulate reactive oxygen production in macropahges via the protein tyrosine kinase known as Syk.				
	Rat anti Mouse Dectin-1 antibody, clone 2A11 inhibits the binding of zymosan to macrophages via the beta-glucan receptor.				
Flow Cytometry	Use 10 μ l of the suggested working dilution to label 10 ⁶ cells in 100 μ l				
References	 Taylor, P.R. <i>et al.</i> (2002) The beta-glucan receptor, dectin-1, is predominantly expressed on the surface of cells of the monocyte/macrophage and neutrophil lineages. <u>J Immunol.</u> <u>169 (7): 3876-82.</u> Reid, D.M. <i>et al.</i> (2004) Expression of the beta-glucan receptor, Dectin-1, on murine leukocytes in situ correlates with its function in pathogen recognition and reveals potential roles in leukocyte interactions. <u>J Leukoc Biol. 76 (1): 86-94.</u> Underhill, D.M. <i>et al.</i> (2005) Dectin-1 activates Syk tyrosine kinase in a dynamic subset of macrophages for reactive oxygen production. <u>Blood. 106 (7): 2543-50.</u> Lefevre,L. <i>et al.</i> (2010) PPARc Ligands Switched High Fat Diet-Induced Macrophage M2b Polarization toward M2a Thereby Improving Intestinal <i>Candida</i> Elimination <u>PLoS One. 5(9):e12828.</u> Fei, M. <i>et al.</i> (2011) TNF-alpha from inflammatory dendritic cells (DCs) regulates lung IL-17A/IL-5 levels and neutrophilia versus eosinophilia during persistent fungal infection. <u>Proc Natl Acad Sci U S A. 108 (13): 5360-5.</u> Gazi, U. <i>et al.</i> (2011) Fungal Recognition Enhances Mannose Receptor Shedding 				

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Storage	Store at +4°C.	
	DO NOT FREEZE.	
	This product should be stored undiluted. This product is photosensitive and should be	
	protected from light. Should this product contain a precipitate we recommend	
	microcentrifugation before use.	
Guarantee	12 months from date of despatch	
Health And Safety	Material Safety Datasheet documentation #10041 available at:	
Information	https://www.bio-rad-antibodies.com/SDS/MCA2289FB	
	10041	
Regulatory	For research purposes only	

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