

Datasheet: MCA756F

Description:	MOUSE ANTI HUMAN CD64:FITC		
Specificity:	CD64		
Other names:	FcRI		
Format:	FITC		
Product Type:	Monoclonal Antibody		
Clone:	10.1		
lsotype:	lgG1		
Quantity:	0.1 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 Determine				ed Suggested Dilution		
	Flow Cytometry	-			Neat - 1/10		
	Immunofluorescence	•					
	necessarily exclude it a guide only. It is reco system using appropr	mmended that	t the use	er titrates the antibody	g dilutions are given as for use in their own		
Target Species	Human						
Species Cross Reactivity	Reacts with: Baboon, N.B. Antibody reactivi reactivity is derived fro personal communicati further information.	ty and working om testing with	g condition nin our la	ons may vary betweer aboratories, peer-revie	wed publications or		
Product Form	Purified IgG conjugate	ed to Fluoresc	ein Isoth	iocyanate Isomer 1 (F	ITC) - liquid		
Max Ex/Em	Fluorophore FITC	Excitation M 490	ax (nm)	Emission Max (nm) 525			
Preparation	Purified IgG prepared supernatant	by affinity chr	omatogr	aphy on Protein A fror	n tissue culture		

Buffer Solution	Phosphate buffered saline	
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin	
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml	
Immunogen	Human monocytes	
External Database Links	UniProt: <u>P12314</u> <u>Related reagents</u> Entrez Gene: <u>2209</u> FCGR1A <u>Related reagents</u>	
Synonyms	FCG1, FCGR1, IGFR1	
RRID	AB_321799	
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with ce SP2/0-Ag14 myeloma cell line	ells of the mouse
Specificity	Mouse anti Human CD64 antibody, clone 10.1 recognizes to antigen, a ~75 kDa glycoprotein expressed by monocytes. The affinity receptor for human IgG, and is also known as FcRI. Mouse anti Human CD64 antibody, clone 10.1 blocks binding	e antigen acts as a high
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells ir	n 100ul.
References	 Scheinecker, C. <i>et al.</i> (1998) Initiation of the autologous mix requires the expression of costimulatory molecules B7-1 and I blood dendritic cells. <u>J Immunol. 161: 3966-73.</u> Fadlon, E. <i>et al.</i> (1998) Blood polymorphonuclear leukocytic cell patients in the crisis phase of the disease show enhanced endothelium and increased expression of CD64. <u>Blood. 91: 26</u> Navarro-López, F. <i>et al.</i> (2003) Late T-lymphocyte and mon restenosis. Evidence for a persistent inflammatory/immune me <u>56: 465-72.</u> Beekman, J.M. <i>et al.</i> (2004) Direct interaction between Fcg periplakin controls receptor endocytosis and ligand binding ca <u>S A.101: 10392-7.</u> Kahn, F. <i>et al.</i> (2008) Antibodies against a surface protein of Streptococcus pyogenes promote a pathological inflammatory (9): e1000149. Wagner, C. <i>et al.</i> (2008) T lymphocytes in acute bacterial in 	B7-2 on human peripheral es from the majority of sickle d adhesion to vascular <u>56-74.</u> nocyte activation in coronary echanism? <u>Rev Esp Cardiol.</u> ammaRI (CD64) and pacity. <u>Proc Natl Acad Sci U</u> of response. <u>PLoS Pathog. 4</u>

	 prevalence of CD11b(+) cells in the peripheral blood and recruitment to the infected site. Immunology. 125: 503-9. 7. Eisenhardt, S.U. <i>et al.</i> (2009) Dissociation of pentameric to monomeric C-reactive protein on activated platelets localizes inflammation to atherosclerotic plaques. <u>Circ Res.</u> 105: 128-37. 8. Tanaka, M. <i>et al.</i> (2009) Activation of Fc gamma RI on monocytes triggers differentiation into immature dendritic cells that induce autoreactive T cell responses. J Immunol. 183: 2349-55. 9. Liu M <i>et al.</i> (2011) Vitellogenin mediates phagocytosis through interaction with FcγR. Mol Immunol. 49 (1-2): 211-8. 10. Fet, N.G. <i>et al.</i> (2012) Reduction of activated macrophages after ischaemia-reperfusion injury diminishes oxidative stress and ameliorates renal damage. Nephrol Dial Transplant. 27 (8): 3149-55. 11. Kapelski S <i>et al.</i> (2014) Assessment of the neutrophilic antibody-dependent respiratory burst (ADRB) response to <i>Plasmodium falciparum</i>. J Leukoc Biol. 96 (6): 1131-42. 12. Hristodorov, D. <i>et al.</i> (2017) Proteomic profiling of peripheral blood neutrophilis identifies two inflammatory phenotypes in stable COPD patients. <u>Respir Res.</u> 18 (1): 100. 14. Rahabi, M. <i>et al.</i> (2020) Divergent Roles for Macrophage C-type Lectin Receptors, Dectin-1 and Mannose Receptors, in the Intestinal Inflammatory Response. <u>Cell Rep.</u> 30 (13): 4386-98.e5.
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in
	frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA756F 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21		
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50	То	
	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio-rad.com		Email: antibody_sales_de@bio-rad.comd a		
batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M381492:210512'							

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