

Datasheet: MCA756F BATCH NUMBER 1609

Description:	MOUSE ANTI HUMAN CD64:FITC			
Specificity:	CD64			
Other names:	FcRI			
Format:	FITC			
Product Type:	Monoclonal Antibody			
Product Type: Clone:	Monoclonal Antibody 10.1			
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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-rad-antibodies.com/protocols</u> .						
	Yes No Not Determined Suggested Dilution						
	Flow Cytometry	-			Neat - 1/10		
	Immunofluorescence	•					
	Where this antibody h	as not been te	sted for	use in a particular tec	hnique this does not		
	necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.						
Target Species	Human						
Species Cross Reactivity	Reacts with: Baboon, N.B. Antibody reactivity reactivity is derived from personal communication further information.	ty and working om testing with	conditio in our lal	ns may vary between poratories, peer-reviev	wed publications or		
Product Form	Purified IgG conjugate	ed to Fluoresce	in Isothi	ocyanate Isomer 1 (Fl	ITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Ma	x (nm)	Emission Max (nm)			
	FITC	490		525			
Preparation	Purified IgG prepared supernatant	by affinity chro	omatogra	phy on Protein A fron	n tissue culture		

Buffer Solution	Phosphate buffered saline	
Preservative	0.09% Sodium Azide	
Stabilisers	1% Bovine Serum Albumin	
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml	
Concentrations		
Immunogen	Human monocytes	
External Database		
Links	UniProt:	
	P12314 Related reagents	
	- / -	
	Entrez Gene:	
	2209 FCGR1A Related reagents	
Supersume		
Synonyms	FCG1, FCGR1, IGFR1	
RRID	AB 321799	
	//2_021100	
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cel	lls of the mouse
	SP2/0-Ag14 myeloma cell line	
Specificity	Mouse anti Human CD64 antibody, clone 10.1 recognizes the 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 of	e antigen acts as a high
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in	100ul.
References	 Dougherty, G.J. <i>et al.</i> (1987) The human mononuclear phag receptor, FcRI, defined by a monoclonal antibody, 10.1. <u>Eur J</u> Beekman, J.M. <i>et al.</i> (2004) Direct interaction between Fcga periplakin controls receptor endocytosis and ligand binding cap <u>S A.101: 10392-7.</u> Tanaka, M. <i>et al.</i> (2009) Activation of Fc gamma RI on mono differentiation into immature dendritic cells that induce autorea <u>Immunol. 183: 2349-55.</u> Fet, N.G. <i>et al.</i> (2012) Reduction of activated macrophages injury diminishes oxidative stress and ameliorates renal damag <u>27 (8): 3149-55.</u> Wagner, C. <i>et al.</i> (2008) T lymphocytes in acute bacterial into prevalence of CD11b(+) cells in the peripheral blood and recruin <u>Immunology. 125: 503-9.</u> Eisenhardt, S.U. <i>et al.</i> (2009) Dissociation of pentameric to 	Immunol. 17 (10): 1453-9. ammaRI (CD64) and bacity. Proc Natl Acad Sci U bocytes triggers ctive T cell responses. J after ischaemia-reperfusion ge. Nephrol Dial Transplant. fection: increased itment to the infected site.
	protein on activated platelets localizes inflammation to atheros	clerotic plaques. <u>Circ Res.</u>

	 105: 128-37. 7. Fadlon,. E. <i>et al.</i> (1998) Blood polymorphonuclear leukocytes from the majority of sickle cell patients in the crisis phase of the disease show enhanced adhesion to vascular endothelium and increased expression of CD64. <u>Blood. 91: 266-74.</u> 8. Scheinecker, C. <i>et al.</i> (1998) Initiation of the autologous mixed lymphocyte reaction requires the expression of costimulatory molecules B7-1 and B7-2 on human peripheral blood dendritic cells. <u>J Immunol. 161: 3966-73.</u> 9. Navarro-López, F. <i>et al.</i> (2003) Late T-lymphocyte and monocyte activation in coronary restenosis. Evidence for a persistent inflammatory/immune mechanism? <u>Rev Esp Cardiol. 56: 465-72.</u> 10. Liu M <i>et al.</i> (2011) Vitellogenin mediates phagocytosis through interaction with FcγR. <u>Mol Immunol. 49 (1-2): 211-8.</u> 11. Kapelski S <i>et al.</i> (2017) Proteomic profiling of peripheral blood neutrophils identifies two inflammatory phenotypes in stable COPD patients. <u>Respir Res. 18 (1): 100.</u> 13. Hristodorov, D. <i>et al.</i> (2016) Fully human MAP-fusion protein selectively targets and eliminates proliferating CD64(+) M1 macrophages. <u>Immunol Cell Biol. 94 (5): 470-8.</u> 14. Kahn, F. <i>et al.</i> (2008) Antibodies against a surface protein of Streptococcus pyogenes promote a pathological inflammatory response. <u>PLoS Pathog. 4</u> (9): e1000149.
Further Reading	1. Yoshino, N. <i>et al.</i> (2000) Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of Cynomolgus monkeys (<i>Macaca fascicularis</i>) by using anti-human cross-reactive antibodies. <u>Exp Anim. 49 (2): 97-110.</u>
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
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 America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-r	Worldwide ad.com	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-	Europe rad.com	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-ra	To ^{d.} eend a
batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M368916:200529'						S

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