Datasheet: MCA756A647 BATCH NUMBER 1608

Description:	MOUSE ANTI HUMAN CD64:Alexa Fluor® 647
Specificity:	CD64
Other names:	FcRI
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	10.1
Isotype:	lgG1
Quantity:	100 TESTS/1ml

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			Neat - 1/10	
	necessarily exclude its	s use in such procedu mmended that the us	er titrates the antibody	g dilutions are given as	
Target Species	Human				
Species Cross Reactivity	Reacts with: Baboon, Cynomolgus monkey, Rhesus Monkey N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.				
Product Form	Purified IgG conjugate	d to Alexa Fluor® 64	7 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)		
	Alexa Fluor®647	650	665		
Preparation	Purified IgG prepared supernatant	by affinity chromatog	raphy 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 0.05 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_324802	
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with ce SP2/0-Ag14 myeloma cell line	lls of the mouse
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 a	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 phage receptor, FcRI, defined by a monoclonal antibody, 10.1. Eur J. Beekman, J.M. <i>et al.</i> (2004) Direct interaction between Fcga periplakin controls receptor endocytosis and ligand binding cal <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 autoreat <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 damage <u>27 (8): 3149-55.</u> Wagner, C. <i>et al.</i> (2008) T lymphocytes in acute bacterial in prevalence of CD11b(+) cells in the peripheral blood and recru <u>Immunology. 125: 503-9.</u> Eisenhardt, S.U. <i>et al.</i> (2009) Dissociation of pentameric to protein on activated platelets localizes inflammation to atherose 	Immunol. 17 (10): 1453-9. ammaRI (CD64) and pacity. <u>Proc Natl Acad Sci U</u> ocytes triggers active T cell responses. <u>J</u> after ischaemia-reperfusion ge. <u>Nephrol Dial Transplant.</u> fection: increased uitment to the infected site.

	 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> (2014) Assessment of the neutrophilic antibody-dependent respiratory burst (ADRB) response to <i>Plasmodium falciparum.</i> <u>J Leukoc Biol. 96 (6): 1131-42.</u> 12. Loi, A.L.T. <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.
	This product should be stored undiluted.
	Storage in frost free freezers is not recommended. This product is photosensitive and
	should be protected from light.
	should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	Avoid repeated freezing and thawing as this may denature the antibody. Should this

Health A Informati	_	rial Safety Datas //www.bio-rad-ar 1	at:		
Regulato	bry For re				
Relate	d Products				
Recom	nended Negative	Controls			
MOUSE I	gG1 NEGATIVE CON	TROL:Alexa Fluor	<u>® 647 (MCA928A647)</u>		
Recom	nended Useful R	eagents			
HUMAN S	SEROBLOCK (BUF07) SEROBLOCK (BUF07)				

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M368913:200529'

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