

Datasheet: MCA756EL

Description:	MOUSE ANTI HUMAN CD64:Low Endotoxin
Specificity:	CD64
Other names:	FcRI
Format:	Low Endotoxin
Product Type:	Monoclonal Antibody
Clone:	10.1
Isotype:	lgG1
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>				
	. .		Johnnen	ualions, please visit <u>w</u>	<u>/////////////////////////////////////</u>
	rad-antibodies.com/protocols.				
	Flow Outomotry	Yes	No	Not Determined	Suggested Dilution 1/50 - 1/200
	Flow Cytometry	-			1/50 - 1/200
	Immunohistology - Frozen				
	Immunohistology - Paraffin				
	ELISA				
	Western Blotting			•	
	Immunofluorescence				
	Functional Assays • Where this antibody 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 as a guide only. It is recommended that the user titrates the antibody for use in their own				
	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 - liquid				

Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant	
Buffer Solution	Phosphate buffered saline	
Preservative Stabilisers	None present	
Carrier Free	Yes	
Endotoxin Level	< 0.01 Eu/ug	
Approx. Protein Concentrations	IgG concentration 1.0 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_1102270	
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0-Ag14 myeloma cell line	
Specificity	Mouse anti Human CD64 antibody, clone 10.1 recognizes the human CD64 cell surface antigen, a ~75 kDa glycoprotein expressed by monocytes. The antigen acts as a high affinity receptor for human IgG, and is also known as FcRI. Mouse anti Human CD64 antibody, clone 10.1 blocks binding of immunoglobulin to FcRI.	
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.	
References	 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. J Immunol. 161: 3966-73. 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> 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.</u> <u>56: 465-72.</u> Beekman, J.M. <i>et al.</i> (2004) Direct interaction between FcgammaRI (CD64) and 	

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	prevalence of CD11b(+) cells in the peripheral blood and recruitment to the infected site.
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	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. \underline{J}
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	reperfusion injury diminishes oxidative stress and ameliorates renal damage. Nephrol Dial
	<u>Transplant. 27 (8): 3149-55.</u>
	11. Kapelski S et al. (2014) Assessment of the neutrophilic antibody-dependent respiratory
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	12. Hristodorov, D. et al. (2016) Fully human MAP-fusion protein selectively targets and
	eliminates proliferating CD64(+) M1 macrophages. Immunol Cell Biol. 94 (5): 470-8.
	13. Loi, A.L.T. et al. (2017) Proteomic profiling of peripheral blood neutrophils identifies
	two inflammatory phenotypes in stable COPD patients. Respir Res. 18 (1): 100.
	14. Rahabi, M. et al. (2020) Divergent Roles for Macrophage C-type Lectin Receptors,
	Dectin-1 and Mannose Receptors, in the Intestinal Inflammatory Response. <u>Cell Rep. 30</u>
	(13): 4386-98.e5.
	15. Tonecka, K. et al. (2021) The CD200 Regulates Inflammation in Mice Independently of
	TNF-α Production. Int J Mol Sci. 22 (10): 5358.
Storage	Store at -20°C only.
	This product should be stored undiluted.
	Storage in frost free freezers is not recommended. 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	Material Safety Datasheet documentation #10162 available at:
Information	https://www.bio-rad-antibodies.com/SDS/MCA756EL
	10162
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	RPE			
Goat Anti Mouse IgG IgA IgM (STAR87)				
Goat Anti Mouse IgG (STAR76)	RPE			
Goat Anti Mouse IgG (STAR70)	FITC			
Goat Anti Mouse IgG (H/L) (STAR117)	<u>Alk. Phos.</u> , <u>DyLight®488</u> , <u>DyLight®550</u> ,			
	DyLight®650, DyLight®680, DyLight®800,			
	FITC, HRP			
Rabbit Anti Mouse IgG (STAR13)	HRP			
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP			
Rabbit Anti Mouse IgG (STAR9)	FITC			
Goat Anti Mouse IgG (STAR77)	HRP			
Recommended Negative Controls				
MOUSE IgG1 NEGATIVE CONTROL:Low Endotoxin (MCA928EL)				
North & South Tel: +1 800 265 7376 Worldwid	de Tel: +44 (0)1865 852 700 Europe Tel: +49 (0) 89 8090 95 21			

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M368915:200529'

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