

Datasheet: MCA756A700

Description:	MOUSE ANTI HUMAN CD64:Alexa Fluor® 700		
Specificity:	CD64		
Other names:	FcRI		
Format:	ALEXA FLUOR® 700		
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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry				Neat - 1/10

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 as 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	Human				
Species Cross Reactivity	N.B. Antibody reactreactivity is derived	I from testing within our I cations from the originate	Rhesus Monkey ons may vary between speci aboratories, peer-reviewed p ors. Please refer to reference	ublications o	
Product Form	Purified IgG conjugated to Alexa Fluor 700 - liquid				
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)		
	Alexa Fluor®700	702	723		
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant				
Buffer Solution					

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin	
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml	
Immunogen	Human monocytes	
External Database Links	UniProt: P12314 Related reagents Entrez Gene: 2209 FCGR1A Related reagents	
Synonyms	FCG1, FCGR1, IGFR1	
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells SP2/0-Ag14 myeloma cell line	s 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 of	antigen acts as a high
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in	-
References	1. Scheinecker, C. <i>et al.</i> (1998) Initiation of the autologous mixed requires the expression of costimulatory molecules B7-1 and B7 blood dendritic cells. J Immunol. 161: 3966-73. 2. Fadlon,. E. <i>et al.</i> (1998) Blood polymorphonuclear leukocytes cell patients in the crisis phase of the disease show enhanced a endothelium and increased expression of CD64. Blood. 91: 266-3. Navarro-López, F. <i>et al.</i> (2003) Late T-lymphocyte and monor restenosis. Evidence for a persistent inflammatory/immune med 56: 465-72. 4. Beekman, J.M. <i>et al.</i> (2004) Direct interaction between Fcgar periplakin controls receptor endocytosis and ligand binding capa S A.101: 10392-7. 5. Kahn, F. <i>et al.</i> (2008) Antibodies against a surface protein of Streptococcus pyogenes promote a pathological inflammatory receptor (9): e1000149. 6. Wagner, C. <i>et al.</i> (2008) T lymphocytes in acute bacterial inferevalence of CD11b(+) cells in the peripheral blood and recruit Immunology. 125: 503-9. 7. Eisenhardt, S.U. <i>et al.</i> (2009) Dissociation of pentameric to monor requirements.	7-2 on human peripheral s from the majority of sickle adhesion to vascular 6-74. cyte activation in coronary chanism? Rev Esp Cardiol. mmaRI (CD64) and acity. Proc Natl Acad Sci U esponse. PLoS Pathog. 4 ection: increased tment to the infected site.

protein on activated platelets localizes inflammation to atherosclerotic plaques. <u>Circ Res.</u>

105: 128-37.

- 8. Tanaka, M. *et al.* (2009) Activation of Fc gamma RI on monocytes triggers differentiation into immature dendritic cells that induce autoreactive T cell responses. <u>J Immunol</u>. 183: 2349-55.
- 9. Liu M *et al.* (2011) Vitellogenin mediates phagocytosis through interaction with FcγR. Mol Immunol. 49 (1-2): 211-8.
- 10. Fet, N.G. *et al.* (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 *et al.* (2014) Assessment of the neutrophilic antibody-dependent respiratory burst (ADRB) response to *Plasmodium falciparum*. J Leukoc Biol. 96 (6): 1131-42.
- 12. Hristodorov, D. *et al.* (2016) Fully human MAP-fusion protein selectively targets and eliminates proliferating CD64(+) M1 macrophages. <u>Immunol Cell Biol. 94 (5): 470-8.</u>
- 13. Loi, A.L.T. *et al.* (2017) Proteomic profiling of peripheral blood neutrophils identifies two inflammatory phenotypes in stable COPD patients. <u>Respir Res. 18 (1): 100.</u>

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. This product is photosensitive and should be protected from light.

Guarantee

12 months from date of despatch

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA756A700 10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL: Alexa Fluor® 700 (MCA928A700)

Recommended Useful Reagents

<u>HUMAN SEROBLOCK (BUF070A)</u> <u>HUMAN SEROBLOCK (BUF070B)</u>

 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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M384814:210513'

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