

# Datasheet: MCA756SBV790 BATCH NUMBER 64595347

Description:	MOUSE ANTI HUMAN CD64:StarBright Violet 790
Specificity:	CD64
Other names:	FcRI
Format:	StarBright Violet 790
Product Type:	Monoclonal Antibody
Clone:	10.1
Isotype:	lgG1
Quantity:	100 TESTS/0.5ml

# **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 Suggest					
	Flow Cytometry			Neat		
	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	reactivity is derived fro	ty and working condit	r, Rhesus Monkey ions may vary between laboratories, peer-revie ors. Please refer to refe	wed publications or		
Product Form	Purified IgG conjugated to StarBright Violet 790 - liquid					
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)			
	StarBright Violet 790	402	782			
Preparation	Purified IgG prepared supernatant	by affinity chromatog	raphy on Protein A fron	n tissue culture		

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin 0.1% Pluronic F68 0.1% PEG 3350 0.05% Tween 20
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
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 5µl of the suggested working dilution to label $10^6$ cells in $100µl$ . Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.
References	<ol> <li>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.</li> <li>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></li> <li>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></li> <li>Beekman, J.M. <i>et al.</i> (2004) Direct interaction between FcgammaRI (CD64) and periplakin controls receptor endocytosis and ligand binding capacity. <u>Proc Natl Acad Sci U S A.101: 10392-7.</u></li> <li>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.</li> <li>Wagner, C. <i>et al.</i> (2008) T lymphocytes in acute bacterial infection: increased prevalence of CD11b(+) cells in the peripheral blood and recruitment to the infected site.</li> </ol>

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	differentiation into immature dendritic cells that induce autoreactive T cell responses. ${\tt J}$		
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	reperfusion injury diminishes oxidative stress and ameliorates renal damage. Nephrol Dial		
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	two inflammatory phenotypes in stable COPD patients. Respir Res. 18 (1): 100.		
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	Dectin-1 and Mannose Receptors, in the Intestinal Inflammatory Response. Cell Rep. 30		
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	TNF-α Production. Int J Mol Sci. 22 (10): 5358.		
Storage	Store at +4°C. DO NOT FREEZE.		
	This product should be stored undiluted.		
Guarantee	12 months from date of despatch		
Acknowledgements	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign		
	counterparts		
Health And Safety	Material Safety Datasheet documentation #20471 available at:		
Information	https://www.bio-rad-antibodies.com/SDS/MCA756SBV790		
	20471		
Regulatory	For research purposes only		

## **Related Products**

### **Recommended Useful Reagents**

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South	Tel: +1 800 265 7376	Worldwide
America	Fax: +1 919 878 3751	
	Email: antibody_sales_us@bio-rad.c	com

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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

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