

## Datasheet: MCA2537PE BATCH NUMBER INN1708

Description:	MOUSE ANTI HUMAN CD16:RPE	
Specificity:	CD16	
Other names:	FcRIII	
Format:	RPE	
Product Type:	Monoclonal Antibody	
Clone:	DJ130c	
Isotype:	lgG1	
Quantity:	100 TESTS	

## **Product Details**

Applications	derived from testing w communications from	ithin our laboratories the originators. Pleas al protocol recomme	the following application , peer-reviewed publica se refer to references in ndations, please visit <u>w</u>	tions or personal dicated for further
		Yes No	Not Determined	Suggested Dilution
	Flow Cytometry	•		Neat - 1/10
	necessarily exclude its	s use in such procedu mmended that the us	use in a particular tech ures. Suggested working er titrates the product for controls.	g dilutions are given as
Target Species	Human			
Species Cross Reactivity	reactivity is derived fro	y and working condit om testing within our	ions may vary between aboratories, peer-revie ors. Please refer to refe	wed publications or
Product Form	Purified IgG conjugate	d to R. Phycoerythrin	n (RPE) - lyophilized	
Reconstitution	Reconstitute with 1.0m	nl distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	
	RPE 488nm laser	496	578	
Preparation	Purified IgG prepared	by affinity chromatog	raphy on Protein A fron	n tissue culture

	supernatant	
Buffer Solution	Phosphate buffered saline	
Preservative Stabilisers	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin 5% Sucrose	
External Database Links	UniProt:P08637Related reagentsO75015Related reagentsEntrez Gene:2214FCGR3ARelated reagents2215FCGR3BRelated reagents	
Synonyms	CD16A, CD16B, FCG3, FCGR3, IGFR3	
RRID	AB_961449	
Specificity	Mouse anti Human CD16 antibody, clone DJ130c recognizer as Low affinity immunoglobulin gamma Fc region receptor III-A CD16a is a 254 amino acid ~50-65 kDa single pass type 1 tran bearing two Ig-like C2 type domains. CD16 exists as a transme gammaRIIIA, or CD16A) and a glycosyl phosphatidylinositol (G gammaRIIIB, or CD16B (Scallon <i>et al.</i> 1989). CD16A is express cells, and macrophages, whereas CD16B is primarily expressed and Perussia 1989). In addition, CD16B exists as two allelic va DJ130c recognizes all polymorphonuclear cells irrespective of Mouse anti Human CD16 antibody, clone DJ130c recognizes a membrane-distal domain of CD16, recognizes both CD16a and demonstrated to cross-react with CD16 from rhesus macaques 2012)	a or Fc-gamma RIIIa. Insmembrane glycoprotein embranous form (Fc GPI) anchored form, Fc ased by NK cells, some T ed by granulocytes ( <u>Ravetch</u> ariants NA1 and NA2. their NA phenotype. an epitope in the first d CD16b and has been
Flow Cytometry	Use 10ul of the suggested working dilution to label $1x10^6$ cells	in 100ul.
References	<ol> <li>Schmidt, R.E. (1993) CD16 cluster workshop report. In Leucocyte Typing V: White cell differentiation antigens, Vol.1. Edited by Schlossman, S.F. <i>et al.</i> Oxford University Press. p805 – 806.</li> <li>Kakko, T. <i>et al.</i> (2011) Inflammatory effects of blood leukocytes: association with vascular function in neuropeptide Y proline 7-genotyped type 2 diabetes patients. <u>Diab Vasc Dis Res. 8: 221-8.</u></li> <li>Shantsila, E. <i>et al.</i> (2012) Fibrinolytic status in acute coronary syndromes: evidence of differences in relation to clinical features and pathophysiological pathways. <u>Thromb Haemost. 108: 32-40.</u></li> </ol>	

	<ol> <li>Shantsila, E. <i>et al.</i> (2011) Immunophenotypic characterization of human monocyte subsets: possible implications for cardiovascular disease pathophysiology. <u>J Thromb</u> <u>Haemost. 9: 1056-66.</u></li> </ol>
	<ol> <li>Tapp, L.D. <i>et al.</i> (2012) The CD14++CD16+ monocyte subset and monocyte-platelet interactions in patients with ST-elevation myocardial infarction. <u>J Thromb Haemost. 10:</u> <u>1231-41.</u></li> </ol>
	6. Ambarus, C.A. <i>et al.</i> (2012) Intimal lining layer macrophages but not synovial sublining macrophages display an IL-10 polarized-like phenotype in chronic synovitis. <u>Arthritis Res</u> <u>Ther. 14: R74.</u>
	<ul> <li>7. Ambarus, C.A. <i>et al.</i> (2012) Systematic validation of specific phenotypic markers for in vitro polarized human macrophages. <u>J Immunol Methods. 375: 196-206.</u></li> <li>8. Ambarus, C.A. <i>et al.</i> (2012) Soluble immune complexes shift the TLR-induced cytokine</li> </ul>
	production of distinct polarized human macrophage subsets towards IL-10. <u>PLoS One. 7:</u> e35994.
	9. Shantsila, E. <i>et al.</i> (2012) The effects of exercise and diurnal variation on monocyte subsets and monocyte-platelet aggregates. <u>Eur J Clin Invest. 42: 832-9.</u>
	10. Chehadeh. W. <i>et al.</i> (2009) Antibody-mediated opsonization of red blood cells in parvovirus B19 infection. <u>Virology. 390: 56-63.</u>
	11. Wrigley, B.J. <i>et al.</i> (2013) Increased formation of monocyte-platelet aggregates in ischemic heart failure. <u>Circ Heart Fail. 6: 127-35.</u>
	12. Jaipersad, A.S. <i>et al.</i> (2014) Expression of monocyte subsets and angiogenic markers in relation to carotid plaque neovascularization in patients with pre-existing coronary artery disease and carotid stenosis. Ann Med. 11: 1-9.
	<ol> <li>Shantsila, E. <i>et al.</i> (2015) Free Light Chains in patients with acute coronary syndromes: Relationships to inflammation and renal function. <u>Int J Cardiol. 185: 322-7.</u></li> <li>Wrigley, B.J. <i>et al.</i> (2013) Increased formation of monocyte-platelet aggregates in ischemic heart failure. <u>Circ Heart Fail. 6 (1): 127-35.</u></li> </ol>
	<ul> <li>15. Romee R <i>et al.</i> (2013) NK cell CD16 surface expression and function is regulated by a disintegrin and metalloprotease-17 (ADAM17). <u>Blood. 121 (18): 3599-608.</u></li> <li>16. Sousa, S. <i>et al.</i> (2015) Human breast cancer cells educate macrophages toward the M2 activation status. <u>Breast Cancer Res. 17: 101.</u></li> </ul>
	17. Shantsila, E. <i>et al</i> . (2019) Mon2 predicts poor outcome in ST-elevation myocardial infarction. <u>J Intern Med. 285 (3): 301-16.</u>
	18. Brown, R.A. <i>et al.</i> (2018) Impact of Mon2 monocyte-platelet aggregates on human coronary artery disease. <u>Eur J Clin Invest. 48 (5): e12911.</u>
Storage	Store at +4°C. DO NOT FREEZE.
	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.
	This product is photosensitive and should be protected from light. 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 #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA2537PE

	20487				
Regulato	<b>ry</b> For res	earch purpose			
Relate	d Products				
Recomn	nended Negative C	Controls			
MOUSE Ig	G1 NEGATIVE CONTR	ROL:RPE (MCA9	928PE)		
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	Email: antibody sales us@b	io-rad.com	Email: antibody sales uk@bio	-rad.com	Email: antibody sales de@bio-rad.co

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M375513:210104'

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