

Datasheet: MCA551PE BATCH NUMBER 151677

Description:	MOUSE ANTI HUMAN CD11b:RPE	
Specificity:	CD11b	
Other names:	INTEGRIN ALPHA M CHAIN, MAC-1	
Format:	RPE	
Product Type:	Monoclonal Antibody	
Clone:	ICRF44	
lsotype:	lgG1	
Quantity:	100 TESTS	

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	Suggested Dilution	
	Flow Cytometry			Neat	
	Where this antibody ha	as not been tested fo	r use in a particular tec	hnique 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 system using appropriate negative/positive controls.				
Target Species	Human				
Species Cross	Reacts with: Cynomolgus monkey, Baboon, Rhesus Monkey				
Reactivity	Does not react with:Cat				
	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 conjugated to R. Phycoerythrin (RPE) - lyophilized				
Reconstitution	Reconstitute with 1 ml distilled water				
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)		
	RPE 488nm laser	496	578		

Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide1% Bovine Serum Albumin5% Sucrose
Immunogen	Rheumatoid synovial cells and human monocytes
External Database Links	UniProt: <u>P11215</u> <u>Related reagents</u> Entrez Gene: <u>3684</u> ITGAM <u>Related reagents</u>
Synonyms	CD11B, CR3A
RRID	AB_321291
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse Sp2/0 myeloma cell line
Specificity	Mouse anti Human CD11b antibody, clone ICRF44 recognizes the human CD11b cell surface glycoprotein, a 165 kDa molecule also known as the alphaM integrin, MAC-1 and CR3. This molecule is expressed as a heterodimer in association with the beta 2 integrin, and is found upon monocytes, granulocytes, NK cells and some peripheral blood lymphocytes.
	Mouse anti Human CD11b antibody, clone ICRF44 has been reported to have various functional effects on monocytes, blocking adhesion and stimulating cytokine and chemokine release.
Flow Cytometry	Use 10ul of the suggested working dilution to label 100ul of whole blood or 10 ⁶ cells in 100ul.
References	 Yoshino, M. <i>et al.</i> (2000) Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of cynomolgus monkeys (Macaca fascicularis) by using anti-human cross-reactive antibodies. <u>Exp Anim. 49: 97-110.</u> Jonker, M. <i>et al.</i> (1989) Reactivity of mAb specific for human CD markers with Rhesus monkey leucocyte. Leucocyte Typing IV. Oxford University Press 1058-1063. Dransfield, I. <i>et al.</i> (1992) Interaction of leukocyte integrins with ligand is necessary but not sufficient for function. <u>J Cell Biol. 116 (6): 1527-35.</u> Malhotra, V. <i>et al.</i> (1986) Ligand binding by the p150,95 antigen of U937 monocytic cells: properties in common with complement receptor type 3 (CR3). <u>Eur J Immunol. 16 (9): 1117-23.</u>

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	kinase pathways. <u>Blood 105: 341-9.</u>
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	antibodies or soluble CD23 induces macrophage inflammatory protein 1alpha
	(MIP-1alpha) and MIP-1beta production in primary human monocytes through a pathway
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	antibodies or soluble CD23 induces IL-1beta production on primary human monocytes
	through mitogen-activated protein kinase-dependent pathways. <u>Blood. 95 (12): 3868-77.</u>
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	patients with type 2 diabetes. <u>J Am Coll Cardiol. 53: 962-71.</u>
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	mobilization and eosinophil CCR3 expression in asthma. <u>Am J Respir Crit Care Med. 164:</u> 1403-9.
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	endothelial interactions under flow. J Pharmacol Exp Ther. 321: 656-62.
	12. Woollard, K.J. <i>et al.</i> (2002) Direct modulatory effect of C-reactive protein on primary
	human monocyte adhesion to human endothelial cells. Clin Exp Immunol. 130: 256-62.
	13. Ramacciotti, E. <i>et al.</i> (2011) Evaluation of soluble p-selectin as a marker for the
	diagnosis of deep venous thrombosis. <u>Clin Appl Thromb Hemost</u> . 17: 425-31.
	14. Paul, G. <i>et al.</i> (2012) The adult human brain harbors multipotent perivascular
	mesenchymal stem cells. PLoS One 7: e35577.
	15. Gomes-Alves, P. <i>et al.</i> (2016) <i>In vitro</i> expansion of human cardiac progenitor cells:
	Exploring 'omics tools for characterization of cell-based allogeneic products Translational
	Research. 9 Feb [Epub ahead of print]
	16. Hughes, S.F. <i>et al.</i> (2020) The role of phagocytic leukocytes following flexible
	ureterenoscopy, for the treatment of kidney stones: an observational, clinical pilots-study.
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Storage	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.
	DO NOT FREEZE.
	This product should be stored undiluted. 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	Material Safety Datasheet documentation #20487 available at:
Information	https://www.bio-rad-antibodies.com/SDS/MCA551PE 20487

Related Products Recommended Negative Controls MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE) **Recommended Useful Reagents** HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B) North & South Tel: +1 800 265 7376 Worldwide Tel: +44 (0)1865 852 700 Tel: +49 (0) 89 8090 95 21 Europe America Fax: +1 919 878 3751 Fax: +44 (0)1865 852 739 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_us@bio-rad.com Email: antibody_sales_uk@bio-rad.com Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M375587:210104'

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