

# Datasheet: MCA551F BATCH NUMBER 157593

Description:	MOUSE ANTI HUMAN CD11b:FITC		
Specificity:	CD11b		
Other names:	INTEGRIN ALPHA M CHAIN, MAC-1		
Format:	FITC		
Product Type:	Monoclonal Antibody		
Clone:	ICRF44		
lsotype:	lgG1		
Quantity:	0.1 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-rad-antibodies.com/protocols</u> .				
		Yes No	Not Determined	Suggested Dilution	
	Flow Cytometry	-		Neat - 1/2	
	necessarily exclude its	use in such procedu mmended that the us	er titrates the antibody	g dilutions are given as	
Target Species	Human				
Species Cross Reactivity	Reacts with: Cynomolgus monkey, Baboon, Rhesus Monkey Does not react with:Cat <b>N.B.</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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid				
Max Ex/Em	Fluorophore FITC	Excitation Max (nm) 490	Emission Max (nm) 525		
Preparation	Purified IgG prepared supernatant	by affinity chromatog	raphy on Protein A fron	n tissue culture	

Phosphate buffered saline
0.09% Sodium Azide 1% Bovine Serum Albumin
IgG concentration 0.1 mg/ml
Rheumatoid synovial cells and human monocytes.
UniProt: <u>P11215</u> <u>Related reagents</u> Entrez Gene: <u>3684</u> ITGAM <u>Related reagents</u>
CD11B, CR3A
AB_321290
Spleen cells from immunized BALB/c mice were fused with cells of the mouse Sp2/0 myeloma cell line.
<b>Mouse anti Human CD11b antibody, clone ICRF44</b> 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.
Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells or 100ul whole blood
<ol> <li>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</u> (9): 1117-23.</li> <li>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.</li> <li>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></li> <li>Rezzonico, R. <i>et al.</i> (2000) Engagement of CD11b and CD11c beta2 integrin by 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></li> <li>Stirling, R.G. <i>et al.</i> (2001) Interleukin-5 induces CD34(+) eosinophil progenitor mobilization and eosinophil CCR3 expression in asthma. <u>Am J Respir Crit Care Med. 164</u>:</li> </ol>

## <u>1403-9.</u>

	<u>1403-9.</u> 6. Canalli, A.A. <i>et al.</i> (2001) Participation of Mac-1, LFA-1 and VLA-4 integrins in the in
	vitro adhesion of sickle cell disease neutrophils to endothelial layers, and reversal of
	adhesion by simvastatin. <u>Haematologica 96: 526-33.</u>
	7. Rezzonico, R. <i>et al.</i> (2001) Ligation of CD11b and CD11c beta(2) integrins by
	antibodies or soluble CD23 induces macrophage inflammatory protein 1alpha
	(MIP-1alpha) and MIP-1beta production in primary human monocytes through a pathway
	dependent on nuclear factor-kappaB. <u>Blood. 97 (10): 2932-40.</u>
	8. Woollard, K.J. <i>et al.</i> (2002) Direct modulatory effect of C-reactive protein on primary
	human monocyte adhesion to human endothelial cells. <u>Clin Exp Immunol. 130: 256-62.</u>
	9. Glasow, A. <i>et al.</i> (2005) Retinoids and myelomonocytic growth factors co-operatively
	activate RAR{alpha} and induce human myeloid leukemia cell differentiation via MAP
	kinase pathways. <u>Blood 105: 341-9.</u>
	10. Urquhart, P. <i>et al.</i> (2007) Carbon monoxide-releasing molecules modulate leukocyte-
	endothelial interactions under flow. <u>J Pharmacol Exp Ther. 321: 656-62.</u>
	11. Patel, S. <i>et al.</i> (2009) Reconstituted high-density lipoprotein increases plasma
	high-density lipoprotein anti-inflammatory properties and cholesterol efflux capacity in
	patients with type 2 diabetes. <u>J Am Coll Cardiol. 53: 962-71.</u>
	12. 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.
	13. Paul, G. <i>et al.</i> (2012) The adult human brain harbors multipotent perivascular
	mesenchymal stem cells. <u>PLoS One 7: e35577.</u>
	14. Gomes-Alves, P. <i>et al.</i> (2016) In vitro expansion of human cardiac progenitor cells:
	exploring 'omics tools for characterization of cell-based allogeneic products. <u>Transl Res.</u>
	<u>171: 96-110.e1-3.</u>
	15. Chen, Y.C. <i>et al.</i> (2018) Effects of normoxic and hypoxic exercise training on the
	bactericidal capacity and subsequent apoptosis of neutrophils in sedentary men. Eur J
	Appl Physiol. 118 (9): 1985-1995.
	16. Nie, R. <i>et al.</i> (2019) <i>Porphyromonas gingivalis</i> Infection Induces Amyloid-β
	Accumulation in Monocytes/Macrophages. J Alzheimers Dis. 72 (2): 479-94.
	17. Hughes, S.F. et al. (2020) The role of phagocytic leukocytes following flexible
	ureterenoscopy, for the treatment of kidney stones: an observational, clinical pilots-study.
	<u>Eur J Med Res. 25 (1): 68.</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.
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Guarantee	12 months from date of despatch
Health And Safety	Material Safety Datasheet documentation #10041 available at:
Information	https://www.bio-rad-antibodies.com/SDS/MCA551F
	10041

#### **Related Products Recommended Negative Controls** MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F) **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 'M388019:210804'

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