

Datasheet: MCA551F BATCH NUMBER 0312R

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 nmended that the us	r use in a particular tec ures. Suggested working er titrates the antibody controls.	g dilutions are given as
Target Species	Human			
Species Cross Reactivity	Reacts with: Cynomolgus monkey, Baboon, Rhesus Monkey 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 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 G fror	n tissue culture

Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide
Stabilisers	1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Rheumatoid synovial cells and human monocytes
External Database	
Links	UniProt:
	P11215 Related reagents
	Entrez Gene:
	<u>3684</u> ITGAM <u>Related reagents</u>
Synonyms	CD11B, CR3A
RRID	AB_321290
	AD_321230
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 10 ⁶ cells or 100ul whole blood
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. J Cell Biol. 116 (6): 1527-35. 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> 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>

6. Rezzonico, R. et al. (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>		
7. Rezzonico, R. et al. (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. Blood. 95 (12): 3868-77. 8. Canalli, A.A. et al. (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. Haematologica 96: 526-33. 9. Patel, S. et al. (2009) Reconstituted high-density lipoprotein increases plasma high-density lipoprotein anti-inflammatory properties and cholesterol efflux capacity in patients with type 2 diabetes. J Am Coll Cardiol. 53: 962-71. 10. Stirling, R.G. et al. (2001) Interleukin-5 induces CD34(+) eosinophil progenitor mobilization and eosinophil CCR3 expression in asthma. Am J Respir Crit Care Med. 164: 1403-9. 11. Urguhart, P. et al. (2007) Carbon monoxide-releasing molecules modulate leukocyteendothelial interactions under flow. J Pharmacol Exp Ther. 321: 656-62. 12. Woollard, K.J. et al. (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. et al. (2011) Evaluation of soluble p-selectin as a marker for the diagnosis of deep venous thrombosis. Clin Appl Thromb Hemost. 17: 425-31. 14. Paul, G. et al. (2012) The adult human brain harbors multipotent perivascular

mesenchymal stem cells. <u>PLoS One 7: e35577.</u>
15. Gomes-Alves, P. *et al.* (2016) *In vitro* expansion of human cardiac progenitor cells: Exploring 'omics tools for characterization of cell-based allogeneic products <u>Translational</u> Research. 9 Feb [Epub ahead of print]

16. 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	Store at +4°C or at -20°C if preferred.
	This product should be stored undiluted.
	Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.
	Avoid repeated freezing and thawing as this may denature the antibody. 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 #10041 available at: 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 'M368220:200529'

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