

Datasheet: MCA551SBB700

BATCH NUMBER 100008090

Description:	MOUSE ANTI HUMAN CD11b:StarBright Blue 700		
Specificity:	CD11b		
Other names:	INTEGRIN ALPHA M CHAIN, MAC-1		
Format:	StarBright Blue 700		
Product Type:	Monoclonal Antibody		
Clone:	ICRF44		
Isotype:	IgG1		
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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
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	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.

	further information. Purified IgG conjugated to StarBright Blue 700 - liquid			
Product Form				
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	
	StarBright Blue 700	473	703	
Preparation	Purified IgG prepare supernatant	d by affinity chromatog	raphy on Protein A fi	

Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide (NaN ₃)
Stabilisers	1% Bovine Serum Albumin
	0.1% Pluronic F68
	0.1% PEG 3350
	0.05% Tween 20
Immunogen	Rheumatoid synovial cells and human monocytes.
External Database	UniDuct
Links	UniProt:
	P11215 Related reagents
	Entrez Gene:
	3684 ITGAM Related reagents
Synonyms	CD11B, CR3A
Fusion Partners	Spleen cells from immunized 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 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	1. 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.
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	4. 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>
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	mobilization and eosinophil CCR3 expression in asthma. Am J Respir Crit Care Med. 164:
	<u>1403-9.</u>

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- 11. 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.
- 12. Ramacciotti, E. *et al.* (2011) Evaluation of soluble p-selectin as a marker for the diagnosis of deep venous thrombosis. <u>Clin Appl Thromb Hemost. 17: 425-31.</u>
- 13. Paul, G. *et al.* (2012) The adult human brain harbors multipotent perivascular mesenchymal stem cells. <u>PLoS One 7: e35577.</u>
- 14. 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>Transl Res.</u> 171: 96-110.e1-3.
- 15. Chen, Y.C. *et al.* (2018) Effects of normoxic and hypoxic exercise training on the bactericidal capacity and subsequent apoptosis of neutrophils in sedentary men. <u>Eur J Appl Physiol</u>. 118 (9): 1985-1995.
- 16. Nie, R. *et al.* (2019) *Porphyromonas gingivalis* 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. Eur J Med Res. 25 (1): 68.

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 recounterparts	elated U.S. and foreign
Health And Safety Information	Material Safety Datasheet documentation #20471 available at https://www.bio-rad-antibodies.com/SDS/MCA551SBB700 20471	t:
Regulatory	For research purposes only	

Related Products

Recommended Useful Reagents

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