

Datasheet: MCA2389SBUV795 BATCH NUMBER 100006166

Description:	RAT ANTI MOUSE Ly-6C:StarBright UltraViolet 795
Specificity:	Ly-6C
Other names:	Lymphocyte antigen 6C2
Format:	StarBright UltraViolet 795
Product Type:	Monoclonal Antibody
Clone:	ER-MP20
lsotype:	lgG2a
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 <u>www.bio-rad-antibodies.com/protocols</u> .				ations or personal ndicated for further	
			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 it a guide only. It is reco system using appropr	ommended that	the use	r titrates the product	ng dilutions are given as for use in their own	
Target Species	Mouse					
Product Form	Purified IgG conjugated to StarBright UltraViolet 795 - liquid					
Max Ex/Em	Fluorophore	Excitation Max	(nm)	Emission Max (nm)		
	StarBright UltraViolet 795	340		792		
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant					
Buffer Solution	Phosphate buffered saline					
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Alb 0.1% Pluronic F68					

0.1% PEG 3350 0.05% Tween 20

Balb/c macrophage precursor cell hybrids.
UniProt: <u>P0CW03</u> <u>Related reagents</u>
Spleen cells from immunised rats were fused with cells of the Y3-Ag1.2.3 myeloma cell line.
Rat anti Mouse Ly-6C antibody, clone ER-MP20 recognizes murine Ly-6C, a 131 amino acid ~14 kDa differentiation antigen, expressed on macrophage/dendritic cell precursors in mid-stage development (late CFU-M, monoblasts and immature monocytes), granulocytes, and on a wide range of endothelial cells and subpopulations of B- and T-lymphocytes.
Rat anti Mouse Ly-6C antibody, clone ER-MP20 is able to distinguish multiple mouse blood monocyte subsets: immature Ly-6C ^{hi} monocytes are recruited to acute peripheral inflammation and develop into Ly-6C ⁺ exudate macrophages, whereas more mature Ly-6C ^{-/lo} monocytes are precursors for tissue macrophages and dendritic cells in steady state.
Rat anti Mouse Ly-6C, clone ER-MP20 can be used in conjunction with clone <u>ER-MP12</u> in two colour flow cytometric analysis, to identify different stages of myeloid progenitor cells in mouse bone marrow (<u>Leenen <i>et al.</i> 1990</u>).
Rat anti Mouse Ly-6C was originally described as recognizing a protein encoded by the LY6C gene. It has subsequently become apparent that the LY6C locus demonstrates polymorphism and the LY6C gene has been re-designated LY6C2. The LY6C1 gene encodes a similar protein with ~95% sequence homology to LY6C2.
Use 5ul of the suggested working dilution to label 10 ⁶ cells in 100ul. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.
 Zhang, Y. & Bliska, J.B. (2010) YopJ-promoted cytotoxicity and systemic colonization are associated with high levels of murine interleukin-18, gamma interferon, and neutrophils in a live vaccine model of <i>Yersinia pseudotuberculosis</i> infection. Infect Immun 78: 2329-41. Leenen, P.J. <i>et al.</i> (1990) Murine macrophage precursor characterization. II. Monoclonal antibodies against macrophage precursor antigens. <u>Eur J Immunol. 20 (1): 27-34.</u> de Bruijn, M.F. <i>et al.</i> (1998) Bone marrow cellular composition in Listeria monocytogenes infected mice detected using ER-MP12 and ER-MP20 antibodies: a flow cytometric alternative to differential counting. <u>J Immunol Methods. 217 (1-2): 27-39.</u> Schatteman, G.C. <i>et al.</i> (2010) Lin- Cells Mediate Tissue Repair by Regulating MCP-1/CCL-2. <u>Am J Pathol. 177: 2002-10.</u> Baumeister, T. <i>et al.</i> (2003) Interleukin-3Ralpha+ myeloid dendritic cells and mast cells

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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 related U.S. and foreign counterparts	
Health And Safety Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA2389SBUV795 20471	
Regulatory	For research purposes only	
Related Produc Recommended Us		

MOUSE SEROBLOCK FcR (BUF041A) MOUSE SEROBLOCK FcR (BUF041B)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
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Printed on 08 Mar 2024

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