

# Datasheet: MCA2389SBV610 BATCH NUMBER 100004588

Description:	RAT ANTI MOUSE Ly-6C:StarBright Violet 610
Specificity:	Ly-6C
Other names:	Lymphocyte antigen 6C2
Format:	StarBright Violet 610
Product Type:	Monoclonal Antibody
Clone:	ER-MP20
lsotype:	lgG2a
Quantity:	100 TESTS/0.5ml

# **Product Details**

Applications	derived from testing w communications from	vithin our laboratorie the originators. Ple ral protocol recomm	n the following application es, peer-reviewed publica ase refer to references in nendations, please visit <u>w</u>	itions or personal ndicated for further
		Yes No	Not Determined	Suggested Dilution
	Flow Cytometry	•		Neat
	necessarily exclude it	s use in such proce ommended that the	or use in a particular tech dures. Suggested workin user titrates the product f re controls.	ng dilutions are given as
Target Species	Mouse			
Product Form	Purified IgG conjugate	ed to StarBright Vio	et 610 - liquid	
Max Ex/Em	Fluorophore	Excitation Max (nr	n) Emission Max (nm)	
	StarBright Violet 610	402	607	
Preparation	Purified IgG prepared supernatant	by affinity chromat	ography on Protein G froi	m tissue culture
Buffer Solution	Phosphate buffered s	aline		
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Alk 0.1% Pluronic F68 0.1% PEG 3350			

Immunogen	Balb/c macrophage precursor cell hybrids.
External Database Links	UniProt:       P0CW03     Related reagents
Fusion Partners	Spleen cells from immunised rats were fused with cells of the Y3-Ag1.2.3 myeloma cell line.
Specificity	<b>Rat anti Mouse Ly-6C antibody, clone ER-MP20</b> 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 <sup>hi</sup> monocytes are recruited to acute peripheral inflammation and develop into Ly-6C <sup>+</sup> exudate macrophages, whereas more mature Ly-6C <sup>-/lo</sup> 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.
Flow Cytometry	Use 5ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.
References	<ol> <li>Zhang, Y. &amp; 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 <u>78: 2329-41.</u></li> <li>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></li> <li>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></li> <li>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></li> </ol>
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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 #20438 available at: https://www.bio-rad-antibodies.com/SDS/MCA2389SBV610 20438
Regulatory	For research purposes only

# **Related Products**

#### **Recommended Useful Reagents**

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

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