Datasheet: MCA2389PE BATCH NUMBER 151054

Description:	RAT ANTI MOUSE Ly-6C:RPE
Specificity:	Ly-6C
Other names:	Lymphocyte antigen 6C2
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	ER-MP20
Isotype:	lgG2a
Quantity:	100 TESTS

Product Details

Applications	This product has been derived from testing wi communications from t information. For genera rad-antibodies.com/pro	thin our labo he originator al protocol re	ratories, s. Pleas	peer-reviewed publicate refer to references in	ations or personal ndicated for further
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	-			Neat - 1/5
	Where this antibody han necessarily exclude its a guide only. It is recor system using appropria	use in such nmended tha	procedu at the use	res. Suggested workir er titrates the antibody	ng dilutions are given as
Target Species	Mouse				
Product Form	Purified IgG conjugate	d to R. Phyco	perythrin	(RPE) - lyophilized	
Reconstitution	Reconstitute with 1 ml	distilled wate	er		
Max Ex/Em	Fluorophore	Excitation M	ax (nm)	Emission Max (nm)	
	RPE 488nm laser	496		578	
Preparation	Purified IgG prepared I supernatant	by affinity ch	romatogr	aphy on Protein G fro	om tissue culture
Buffer Solution	Phosphate buffered sa	line			
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum A	Albumin			

	5% Sucrose
Immunogen	Balb/c macrophage precursor cell hybrids.
External Database Links	UniProt: <u>P0CW03</u> <u>Related reagents</u>
RRID	AB_2234744
Fusion Partners	Spleen cells from immunised rats were fused with cells of the Y3-Ag1.2.3 myeloma cell line.
Specificity	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.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
	The Fc region of monoclonal antibodies may bind to cells expressing low affinity Fc receptors. This may be reduced through the use of the <u>SeroBlock FcR</u> reagent.
References	 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. <u>Infect Immun</u> <u>78: 2329-41.</u> 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>

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Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety	Material Safety Datasheet documentation #20487 available at:

Informati	on <u>https</u> 2048		tibodies.com/SDS/MCA	<u>2389PE</u>	
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