

Datasheet: MCA2389A488T

BATCH NUMBER 151244

Description:	RAT ANTI MOUSE Ly-6C:Alexa Fluor® 488
Specificity:	Ly-6C
Other names:	Lymphocyte antigen 6C2
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	ER-MP20
Isotype:	lgG2a
Quantity:	25 TESTS/0.25ml

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 - 1/10	

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Mouse				
Product Form	Purified IgG conjugate	Purified IgG conjugated to Alexa Fluor®488 - liquid			
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)		
	Alexa Fluor®488	495	519		
Preparation Buffer Solution	Purified IgG prepared supernatant		raphy on Protein G		
Buller Solution	Phosphate buffered sa	aiine			
Preservative	0.09% Sodium Azide				
Stabilisers	1% Bovine Serum	Albumin			
Approx. Protein	IgG concentration 0.0	5 mg/ml			

Concentrations

Immunogen	Balb/c macrophage precursor cell hybrids.						
External Database Links	UniProt: P0CW03 Related reagents						
RRID	AB_1102739						
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 <u>LY6C2</u> . The <u>LY6C1</u> 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 SeroBlock FcR 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 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 						
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Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. 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

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2389A488T

10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 488 (MCA1212A488)

Recommended Useful Reagents

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

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