

Datasheet: MCA2389SBV570

BATCH NUMBER 100005197

Description:	RAT ANTI MOUSE Ly-6C:StarBright Violet 570		
Specificity:	Ly-6C		
Other names:	Lymphocyte antigen 6C2		
Format:	StarBright Violet 570		
Product Type:	Monoclonal Antibody		
Clone:	ER-MP20		
Isotype:	IgG2a		
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	Mouse				
Product Form	Purified IgG conjugat	Purified IgG conjugated to StarBright Violet 570 - liquid			
lax Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm		
	StarBright Violet 570	402	570		
eparation	Purified IgG prepared supernatant	I by affinity chromatog	raphy on Protein G		
fer Solution	Phosphate buffered s	aline			
ervative	0.09% Sodium Azide	(NaN ₃)			
abilisers	1% Bovine Serum All	oumin			
	0.1% Pluronic F68				
	0.1% PEG 3350				

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

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 (Leenen *et al.* 1990).

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 5ul of the suggested working dilution to label 10⁶ cells in 100ul. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.

References

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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/MCA2389SBV570

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Regulatory

For research purposes only

Related Products

Recommended Useful Reagents

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America

Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

Email: antibody_sales_de@bio-rad.com

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