

Datasheet: MCA2389SBB675

### **BATCH NUMBER 100006858**

Description:	RAT ANTI MOUSE Ly-6C:StarBright Blue 675		
Specificity:	Ly-6C		
Other names:	Lymphocyte antigen 6C2		
Format:	StarBright Blue 675		
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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	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 Blue 675 - liquid			
lax Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm		
	StarBright Blue 675	476	675		
reparation	Purified IgG prepared supernatant	Purified IgG prepared by affinity chromatography on Protein G supernatant			
fer Solution	Phosphate buffered s	saline			
servative	0.09% Sodium Azide	(NaN <sub>3</sub> )			
abilisers	1% Bovine Serum Al	bumin			
	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<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 (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 10<sup>6</sup> 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** Material Safety Datasheet documentation #20471 available at: Information

https://www.bio-rad-antibodies.com/SDS/MCA2389SBB675

20471

Regulatory For research purposes only

## Related Products

# **Recommended Useful Reagents**

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M405197:220916'

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