

## Datasheet: MCA2389SBV515

**BATCH NUMBER 64682980**

|                      |                                            |
|----------------------|--------------------------------------------|
| <b>Description:</b>  | RAT ANTI MOUSE Ly-6C:StarBright Violet 515 |
| <b>Specificity:</b>  | Ly-6C                                      |
| <b>Other names:</b>  | Lymphocyte antigen 6C2                     |
| <b>Format:</b>       | StarBright Violet 515                      |
| <b>Product Type:</b> | Monoclonal Antibody                        |
| <b>Clone:</b>        | ER-MP20                                    |
| <b>Isotype:</b>      | IgG2a                                      |
| <b>Quantity:</b>     | 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](http://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 conjugated to StarBright Violet 515 - liquid

#### Max Ex/Em

| Fluorophore           | Excitation Max (nm) | Emission Max (nm) |
|-----------------------|---------------------|-------------------|
| StarBright Violet 515 | 402                 | 516               |

#### Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

#### Buffer Solution

Phosphate buffered saline

#### Preservative Stabilisers

0.09% sodium azide (NaN<sub>3</sub>)  
1% bovine serum albumin  
0.1% Pluronic F68  
0.1% PEG 3350

0.05% Tween 20

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|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Approx. Protein Concentrations</b> | For information on the concentration of our StarBright Dye conjugated reagents please visit our <a href="#">FAQ</a> page. |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------|

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|------------------|-------------------------------------------|
| <b>Immunogen</b> | Balb/c macrophage precursor cell hybrids. |
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|--------------------------------|----------------------------------------------------------------------------|
| <b>External Database Links</b> | <b>UniProt:</b><br><a href="#">P0CW03</a> <a href="#">Related reagents</a> |
|--------------------------------|----------------------------------------------------------------------------|

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| <b>Fusion Partners</b> | Spleen cells from immunized rats were fused with cells of the Y3-Ag1.2.3 myeloma cell line. |
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|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specificity</b> | <p><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.</p> <p>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.</p> <p>Rat anti Mouse Ly-6C, clone ER-MP20 can be used in conjunction with clone <a href="#">ER-MP12</a> in two colour flow cytometric analysis, to identify different stages of myeloid progenitor cells in mouse bone marrow (<a href="#">Leenen et al. 1990</a>).</p> <p>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 <a href="#">LY6C2</a>. The <a href="#">LY6C1</a> gene encodes a similar protein with ~95% sequence homology to LY6C2.</p> |
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| <b>Flow Cytometry</b> | Use 5µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application. |
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| <b>Storage</b>                       | Store at +4°C. DO NOT FREEZE.<br>This product should be stored undiluted.                                                                                                            |
| <b>Guarantee</b>                     | 12 months from date of despatch                                                                                                                                                      |
| <b>Acknowledgements</b>              | This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts                                                                                      |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #20471 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2389SBV515">https://www.bio-rad-antibodies.com/SDS/MCA2389SBV515</a> |
| <b>Regulatory</b>                    | For research purposes only                                                                                                                                                           |

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## Related Products

### Recommended Useful Reagents

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