## Datasheet: MCA2389T

<table>
<thead>
<tr>
<th>Description:</th>
<th>RAT ANTI MOUSE Ly-6C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity:</td>
<td>Ly-6C</td>
</tr>
<tr>
<td>Format:</td>
<td>Purified</td>
</tr>
<tr>
<td>Product Type:</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone:</td>
<td>ER-MP20</td>
</tr>
<tr>
<td>Isotype:</td>
<td>IgG2a</td>
</tr>
<tr>
<td>Quantity:</td>
<td>25 µg</td>
</tr>
</tbody>
</table>

### Product Details

**RRID**

AB_1102741

**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).

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td></td>
<td></td>
<td></td>
<td>1/10 - 1/50</td>
</tr>
<tr>
<td>Immunohistology - Frozen</td>
<td></td>
<td></td>
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<tr>
<td>Immunohistology - Paraffin</td>
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<tr>
<td>ELISA</td>
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<tr>
<td>Immunoprecipitation</td>
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<tr>
<td>Western Blotting</td>
<td></td>
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</tbody>
</table>

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 - liquid

**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

**Carrier Free**

Yes

**Approx. Protein Concentrations**

IgG concentration 1.0 mg/ml

**Immunogen**

Balb/c macrophage precursor cell hybrids.
Spleen cells from immunised rats were fused with cells of the Y3-Ag1.2.3 myeloma cell line.

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> hi</hi> monocytes are recruited to acute peripheral inflammation and develop into Ly-6C<hi> hi</hi> exudate macrophages, whereas more mature Ly-6C<hi>-/lo</hi> 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 ER-MP12 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 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.

References

11. van Rijt, L.S. et al. (2002) Allergen-induced accumulation of airway dendritic cells is supported...
by an increase in CD31(hi)Ly-6C(neg) bone marrow precursors in a mouse model of asthma. Blood. 100: 3663-71.
17. Damya, L. et al. (2014) Purification of Tumor-Associated Macrophages (TAM) and Tumor-Associated Dendritic Cells (TADC) BIO-PROTOCOL. 4 (22) [Epub ahead of print].

**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. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Guarantee**

18 months from date of despatch.

**Health And Safety Information**


**Regulatory**

For research purposes only

**Recommended Products**

**Recommended Secondary Antibodies**

- Rabbit Anti Rat IgG (STAR17...)
- Goat Anti Rat IgG (STAR69...)
- Goat Anti Rat IgG (STAR131...)
- Goat Anti Rat IgG (STAR73...)
- Rabbit Anti Rat IgG (STAR21...)
- Goat Anti Rat IgG (STAR72...)
- Rabbit Anti Rat IgG (STAR16...)
- Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)  

**Recommended Negative Controls**

RAT IgG2a NEGATIVE CONTROL (MCA1212)

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