Datasheet: MCA2387T

**Product Details**

**Description:** RAT ANTI MOUSE Gr-1

**Specificity:** Gr-1

**Other names:** Ly-6G

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** RB6-8C5

**Isotype:** IgG2b

**Quantity:** 25 µg

### 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>1/100 - 1/200</td>
</tr>
<tr>
<td>Immunohistology - Frozen</td>
<td></td>
<td>*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunohistology - Paraffin</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td></td>
<td>*</td>
<td></td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western Blotting</td>
<td></td>
<td>*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunofluorescence</td>
<td></td>
<td>*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 - 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 (NaN₃)
Carrier Free Yes

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen Normal murine bone marrow cells.

External Database Links
UniProt: P35461 Related reagents
Entrez Gene: 546644 Ly6g Related reagents

RRID AB_2115659

Specificity Rat anti Mouse Gr-1 antibody, clone RB6-8C5 recognizes the mouse Gr-1 antigen, a ~21–25 kDa GPI anchored cell surface protein bearing a single uPAR/Ly6 domain that belongs to the Ly-6 family of proteins (Lee et al. 2013). Rat anti Mouse Gr-1 antibody, clone RB6-8C5 reacts predominantly with the Ly-6G protein but weaker reactivity with the Ly-6C protein has been reported (Fleming et al. 1993). However, other observations dispute the cross-reactivity of clone RB6-8C5 with the Ly-6C protein with the alternative explanation that certain sub-populations of bone marrow cells simultaneously express both Ly-6C and Ly-6G (Nagendra et al. 2007).

The Gr-1 antigen is primarily a marker of myeloid differentiation. In the bone marrow the level of Gr-1 expression is low on immature myeloblasts and increases as the myeloid cells mature to granulocytes. Gr-1 is also expressed on macrophages and transiently on differentiating monocytes.

Rat anti Mouse Gr-1 antibody, clone RB6-8C5 has been used successfully for the depletion of mature neutrophils in vivo (Czuprynski et al. 1994, Daley et al. 2008).

Flow Cytometry Use 10μl of the suggested working dilution to label 10⁶ cells in 100μl

References

Storage
This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee
12 months from date of despatch

Health And Safety Information
Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2387T 10040

Regulatory
For research purposes only

Related Products
Recommended Secondary Antibodies
<table>
<thead>
<tr>
<th>Product Name</th>
<th>Fluorochrome</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rabbit Anti Rat IgG (STAR16...)</td>
<td>DyLight®800</td>
</tr>
<tr>
<td>Rabbit Anti Rat IgG (STAR17...)</td>
<td>FITC</td>
</tr>
<tr>
<td>Goat Anti Rat IgG (STAR72...)</td>
<td>HRP</td>
</tr>
<tr>
<td>Goat Anti Rat IgG (STAR69...)</td>
<td>FITC</td>
</tr>
<tr>
<td>Goat Anti Rat IgG (STAR73...)</td>
<td>RPE</td>
</tr>
<tr>
<td>Rabbit Anti Rat IgG (STAR21...)</td>
<td>HRP</td>
</tr>
<tr>
<td>Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)</td>
<td>DyLight®550, DyLight®650, DyLight®800</td>
</tr>
<tr>
<td>Goat Anti Rat IgG (STAR131...)</td>
<td>Alk. Phos., Biotin</td>
</tr>
</tbody>
</table>

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets) 'M414840:221214'

Printed on 07 Nov 2023