Datasheet: MCA2387GA

<table>
<thead>
<tr>
<th>Description:</th>
<th>RAT ANTI MOUSE Gr-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity:</td>
<td>Gr-1</td>
</tr>
<tr>
<td>Other names:</td>
<td>Ly-6G</td>
</tr>
<tr>
<td>Format:</td>
<td>Purified</td>
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<tr>
<td>Product Type:</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone:</td>
<td>RB6-8C5</td>
</tr>
<tr>
<td>Isotype:</td>
<td>IgG2b</td>
</tr>
<tr>
<td>Quantity:</td>
<td>0.1 mg</td>
</tr>
</tbody>
</table>

**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>
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<td>Immunohistology - Paraffin</td>
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<tr>
<td>Immunofluorescence</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**

Normal murine bone marrow cells.
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 10ul of the suggested working dilution to label 10^6 cells in 100ul.

References

13. Sharp, P.E. et al. (2013) FcγRIIb on myeloid cells and intrinsic renal cells rather than B cells


**Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life**

18 months from date of despatch.

**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at:


**Regulatory**

For research purposes only

**Related Products**

**Recommended Secondary Antibodies**

- Rabbit Anti Rat IgG (STAR16...)  
  [DyLight®800](https://www.bio-rad-antibodies.com/products/9000000)
- Rabbit Anti Rat IgG (STAR17...)  
  [FITC](https://www.bio-rad-antibodies.com/products/5000000)
- Goat Anti Rat IgG (STAR69...)  
  [FITC](https://www.bio-rad-antibodies.com/products/6000000)
- Goat Anti Rat IgG (STAR131...)  
- Goat Anti Rat IgG (STAR73...)  
  [RPE](https://www.bio-rad-antibodies.com/products/8000000)
- Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)  
  [DyLight®649, DyLight®800](https://www.bio-rad-antibodies.com/products/9000000)
Rabbit Anti Rat IgG (STAR21...) HRP
Goat Anti Rat IgG (STAR72...) HRP