Datasheet: MCA2387T

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

Product Details
RRID: AB_2115659

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.

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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tr>
<td>Flow Cytometry</td>
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<td>1/100 - 1/200</td>
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<td>Immunohistology - Frozen</td>
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<td>Immunofluorescence</td>
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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.

**External Database Links**

- **UniProt:** P35461
- **Related reagents**
- **Entrez Gene:** 546644, Ly6g

**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 10ul of the suggested working dilution to label 10^6 cells in 100ul.

**References**


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.

Guarantee
18 months from date of despatch.

Health And Safety
Material Safety Datasheet documentation #10040 available at:

Regulatory
For research purposes only

Related Products
Recommended Secondary Antibodies
Rabbit Anti Rat IgG (STAR17...)  FITC
Goat Anti Rat IgG (STAR69...)  FITC
Goat Anti Rat IgG (STAR131...)  Alk. Phos., Biotin
Goat Anti Rat IgG (STAR73...)  RPE
Rabbit Anti Rat IgG (STAR21...)  HRP
Goat Anti Rat IgG (STAR72...)  HRP
Rabbit Anti Rat IgG (STAR16...)  DyLight®800
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)  DyLight®800