

Datasheet: MCA2387A700

**BATCH NUMBER 172155**

|                      |                                      |
|----------------------|--------------------------------------|
| <b>Description:</b>  | RAT ANTI MOUSE Gr-1:Alexa Fluor® 700 |
| <b>Specificity:</b>  | Gr-1                                 |
| <b>Other names:</b>  | Ly-6G                                |
| <b>Format:</b>       | ALEXA FLUOR® 700                     |
| <b>Product Type:</b> | Monoclonal Antibody                  |
| <b>Clone:</b>        | RB6-8C5                              |
| <b>Isotype:</b>      | IgG2b                                |
| <b>Quantity:</b>     | 100 TESTS/1ml                        |

## 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 - 1/10        |

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.

|                       |  |
|-----------------------|--|
| <b>Target Species</b> | Mouse  |
| <b>Product Form</b>   | Purified IgG conjugated to Alexa Fluor® 700 - liquid |

| Max Ex/Em | Fluorophore     | Excitation Max (nm) | Emission Max (nm) |
|-----------|-----------------|---------------------|-------------------|
|           | Alexa Fluor®700 | 702                 | 723               |

|                    |   |
|--------------------|---|
| <b>Preparation</b> | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |
|--------------------|---|

|                        |                           |
|------------------------|---------------------------|
| <b>Buffer Solution</b> | Phosphate buffered saline |
|------------------------|---------------------------|

|                     |  |
|---------------------|--|
| <b>Preservative</b> | 0.09% sodium azide (NaN <sub>3</sub> ) |
| <b>Stabilisers</b>  | 1% bovine serum albumin                |

|                        |                              |
|------------------------|------------------------------|
| <b>Approx. Protein</b> | IgG concentration 0.05 mg/ml |
|------------------------|------------------------------|

## Concentrations

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**Immunogen** Normal murine bone marrow cells.

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## External Database Links

### UniProt:

[P35461](#)    [Related reagents](#)

### Entrez Gene:

[546644](#)    Ly6g    [Related reagents](#)

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## 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](#)).

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## Flow Cytometry

Use 10µl of the suggested working dilution to label 10<sup>6</sup> cells in 100µl.

The Fc region of monoclonal antibodies may bind to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR ([BUF041A/BUF041B](#)).

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## References

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**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. This product is photosensitive and should be protected from light.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**      Material Safety Datasheet documentation #10041 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA2387A700>

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**Regulatory**                      For research purposes only

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## Related Products

### Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

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**Printed on 28 May 2026**