

## Datasheet: MCA2387A488

|                      |                                      |
|----------------------|--------------------------------------|
| <b>Description:</b>  | RAT ANTI MOUSE Gr-1:Alexa Fluor® 488 |
| <b>Specificity:</b>  | Gr-1                                 |
| <b>Other names:</b>  | Ly-6G                                |
| <b>Format:</b>       | ALEXA FLUOR® 488                     |
| <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 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 conjugated to Alexa Fluor®488 - liquid                                           |                     |                   |
| Max Ex/Em                      | Fluorophore                                                                                   | Excitation Max (nm) | Emission Max (nm) |
|                                | Alexa Fluor®488                                                                               | 495                 | 519               |
| Preparation                    | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |                     |                   |
| Buffer Solution                | Phosphate buffered saline                                                                     |                     |                   |
| Preservative                   | 0.09% Sodium Azide                                                                            |                     |                   |
| Stabilisers                    | 1%    Bovine Serum Albumin                                                                    |                     |                   |
| Approx. Protein Concentrations | IgG concentration 0.05 mg/ml                                                                  |                     |                   |
| Immunogen                      | Normal murine bone marrow cells.                                                              |                     |                   |
| External Database Links        | UniProt:<br><a href="#">P35461</a> <a href="#">Related reagents</a>                           |                     |                   |

**Entrez Gene:**[546644](#) Ly6g [Related reagents](#)**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, C.J. et al 1994](#), [Daley et al. 2008](#)).

**Flow Cytometry**

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

**References**

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17. Heckelsmiller, K. *et al.* (2002) Combined dendritic cell- and CpG oligonucleotide-based immune therapy cures large murine tumors that resist chemotherapy. [Eur J Immunol. 32 \(11\): 3235-45.](#)
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**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. This product is photosensitive and should be protected from light.

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

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**Shelf Life**

18 months from date of despatch.

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**Acknowledgements**

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**Health And Safety Information**

Material Safety Datasheet documentation #10041 available at:  
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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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 \(BUF041B\)](#)

**North & South** Tel: +1 800 265 7376

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