

## Datasheet: MCA2305GA

|                      |                          |
|----------------------|--------------------------|
| <b>Description:</b>  | RAT ANTI MOUSE CD16/CD32 |
| <b>Specificity:</b>  | CD16/CD32                |
| <b>Other names:</b>  | MOUSE SEROBLOCK FcR      |
| <b>Format:</b>       | Purified                 |
| <b>Product Type:</b> | Monoclonal Antibody      |
| <b>Clone:</b>        | FCR4G8                   |
| <b>Isotype:</b>      | IgG2b                    |
| <b>Quantity:</b>     | 0.1 mg                   |

## 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             | ■   |    |                | 1/25 - 1/50        |
| Immunohistology - Frozen   |     |    | ■              |                    |
| Immunohistology - Paraffin |     |    | ■              |                    |
| ELISA                      |     |    | ■              |                    |
| Immunoprecipitation        |     |    | ■              |                    |
| Western Blotting           |     |    | ■              |                    |

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.

|                                       |                                                                                               |
|---------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Target Species</b>                 | Mouse                                                                                         |
| <b>Product Form</b>                   | Purified IgG - liquid                                                                         |
| <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 Stabilisers</b>       | 0.09% Sodium Azide                                                                            |
| <b>Carrier Free</b>                   | Yes                                                                                           |
| <b>Approx. Protein Concentrations</b> | IgG concentration 1.0 mg/ml                                                                   |
| <b>Immunogen</b>                      | PU5 1.8 IOE7 Balb/c mouse cell line.                                                          |

**External Database  
Links**

**UniProt:**

[P08508](#)   [Related reagents](#)  
[P08101](#)   [Related reagents](#)

**Entrez Gene:**

[14131](#)   Fcgr3   [Related reagents](#)  
[14130](#)   Fcgr2b   [Related reagents](#)

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**Synonyms**

Fcgr2b, Ly-17

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**Fusion Partners**

Cells from immunised rats were fused with cells of the mouse P3X63-Ag8.653 myeloma cell line.

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**Specificity**

**Rat anti Mouse CD16/CD32 antibody, clone FCR4G8** recognizes an epitope expressed by the murine low affinity Fc receptors, Fc gamma III (CD16) and Fc gamma II (CD32). In the mouse only the transmembrane form of CD16 is reported to exist, which is expressed on macrophages, NK cells, granulocytes, myeloid precursors, and subpopulations of T lymphocytes. CD32 is primarily expressed on cells of the myeloid lineage and also on mature B lymphocytes.

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**Flow Cytometry**

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

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**References**

1. da Silva, R.G. *et al.* (2010) Endothelial alpha3beta1-integrin represses pathological angiogenesis and sustains endothelial-VEGF. [Am J Pathol. 177 \(3\): 1534-48.](#)
2. Birjandi, S.Z. *et al.* (2011) Alterations in marginal zone macrophages and marginal zone B cells in old mice. [J Immunol. 186: 3441-51.](#)
3. Jones, D.T. *et al.* (2013) Endogenous ribosomal protein L29 (RPL29): a newly identified regulator of angiogenesis in mice. [Dis Model Mech. 6: 115-24.](#)
4. Kapellos, T.S. *et al.* (2016) A Novel Real Time Imaging Platform to Quantify Macrophage Phagocytosis. [Biochem Pharmacol. Jul 27. pii: S0006-2952\(16\)30176-9. \[Epub ahead of print\]](#)
5. Lunnon, K. *et al.* (2011) Systemic inflammation modulates Fc receptor expression on microglia during chronic neurodegeneration. [J Immunol. 186 \(12\): 7215-24.](#)
6. Teeling, J.L. *et al.* (2012) Intracerebral immune complex formation induces inflammation in the brain that depends on Fc receptor interaction. [Acta Neuropathol. 124 \(4\): 479-90.](#)
7. Murinello, S. *et al.* (2014) Fcγ receptor upregulation is associated with immune complex inflammation in the mouse retina and early age-related macular degeneration. [Invest Ophthalmol Vis Sci. 55 \(1\): 247-58.](#)
8. Hart, A.D. *et al.* (2012) Age related changes in microglial phenotype vary between CNS regions: grey versus white matter differences. [Brain Behav Immun. 26 \(5\): 754-65.](#)
9. Birjandi, S.Z. *et al.* (2011) Alterations in marginal zone macrophages and marginal zone B cells in old mice. [J Immunol. 186 \(6\): 3441-51.](#)
10. Hart, R. & Greaves, D.R. (2010) Chemerin contributes to inflammation by promoting macrophage adhesion to VCAM-1 and fibronectin through clustering of VLA-4 and VLA-5. [J Immunol. 185 \(6\): 3728-39.](#)

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**Storage**

Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. 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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**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

**Regulatory**

For research purposes only

## Related Products

### Recommended Secondary Antibodies

|                                                |                                                                                         |
|------------------------------------------------|-----------------------------------------------------------------------------------------|
| Rabbit Anti Rat IgG (STAR16...)                | <a href="#">DyLight®800</a>                                                             |
| Goat Anti Rat IgG (STAR73...)                  | <a href="#">RPE</a>                                                                     |
| Rabbit Anti Rat IgG (STAR21...)                | <a href="#">HRP</a>                                                                     |
| Rabbit Anti Rat IgG (STAR17...)                | <a href="#">FITC</a>                                                                    |
| Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) | <a href="#">DyLight®549</a> , <a href="#">DyLight®649</a> , <a href="#">DyLight®800</a> |
| Goat Anti Rat IgG (STAR131...)                 | <a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>                                     |
| Goat Anti Rat IgG (STAR69...)                  | <a href="#">FITC</a>                                                                    |
| Goat Anti Rat IgG (STAR72...)                  | <a href="#">HRP</a>                                                                     |

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