

## Datasheet: MCA194

**BATCH NUMBER 180227**

|                      |                                 |
|----------------------|---------------------------------|
| <b>Description:</b>  | MOUSE ANTI RAT IgG1 HEAVY CHAIN |
| <b>Specificity:</b>  | IgG1 HEAVY CHAIN                |
| <b>Format:</b>       | Purified                        |
| <b>Product Type:</b> | Monoclonal Antibody             |
| <b>Clone:</b>        | MARG1-2                         |
| <b>Isotype:</b>      | IgG1                            |
| <b>Quantity:</b>     | 0.25 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             |     |    | ▪              |                    |
| Immunohistology - Frozen   |     |    | ▪              |                    |
| Immunohistology - Paraffin |     |    | ▪              |                    |
| ELISA                      | ▪   |    |                | 3ug/ml - 5ug/ml    |
| 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>                 | Rat  |
| <b>Product Form</b>                   | Purified IgG - liquid  |
| <b>Preparation</b>                    | Purified IgG prepared by affinity chromatography from tissue culture supernatant |
| <b>Buffer Solution</b>                | Phosphate buffered saline  |
| <b>Preservative Stabilisers</b>       | 0.1% Sodium Azide  |
| <b>Approx. Protein Concentrations</b> | IgG concentration 1 mg/ml  |

|                                      |   |
|--------------------------------------|---|
| <b>Immunogen</b>                     | Rat IR27 IgG1 myeloma protein   |
| <b>External Database Links</b>       | <p><b>UniProt:</b><br/> <a href="#">P20759</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">299354</a> Ighg    <a href="#">Related reagents</a></p>  |
| <b>RRID</b>                          | AB_321807   |
| <b>Fusion Partners</b>               | Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.   |
| <b>Specificity</b>                   | <b>Mouse anti rat IgG1, clone MARG1-2</b> recognizes the heavy chain of the rat immunoglobulin G1 subclass. No cross-reactivity has been found with other rat immunoglobulin classes or subclasses.   |
| <b>ELISA</b>                         | Clone MARG1-2 may be used in an indirect ELISA or as the capture reagent in a sandwich ELISA with a <a href="#">HRP-conjugated MARK-1/MARL-15 clone cocktail</a> as the detection reagent.  |
| <b>References</b>                    | <ol style="list-style-type: none"> <li>1. Pelegrí, C. <i>et al.</i> (2001) Prevention of adjuvant arthritis by the W3/25 anti-CD4 monoclonal antibody is associated with a decrease of blood CD4(+)CD45RC(high) T cells. <a href="#">Clin Exp Immunol. 125 (3): 470-7.</a></li> <li>2. Sato, K. <i>et al.</i> (2001) Carbon monoxide generated by heme oxygenase-1 suppresses the rejection of mouse-to-rat cardiac transplants. <a href="#">J Immunol. 166 (6): 4185-94.</a></li> <li>3. Bézie, S. <i>et al.</i> (2015) Fibrinogen-Like Protein 2/Fibroleukin Induces Long-Term Allograft Survival in a Rat Model through Regulatory B Cells. <a href="#">PLoS One. 10 (3): e0119686.</a></li> <li>4. Bézie, S. <i>et al.</i> (2015) Compensatory Regulatory Networks between CD8 T, B, and Myeloid Cells in Organ Transplantation Tolerance. <a href="#">J Immunol. 195 (12): 5805-15.</a></li> <li>5. Ueta, H. <i>et al.</i> (2018) Single blood transfusion induces the production of donor-specific alloantibodies and regulatory T cells mainly in the spleen <a href="#">International Immunology. 30 (2): 53-67.</a></li> </ol> |
| <b>Storage</b>                       | <p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>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.</p>  |
| <b>Guarantee</b>                     | 12 months from date of despatch   |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA194">https://www.bio-rad-antibodies.com/SDS/MCA194</a>  |

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**Regulatory**For research purposes only

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## Related Products

### Recommended Secondary Antibodies

|   |   |
|---|---|
| Rabbit Anti Mouse IgG (STAR12...)       | <a href="#">RPE</a>   |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | <a href="#">HRP</a>   |
| Goat Anti Mouse IgG (STAR76...)         | <a href="#">RPE</a>   |
| Rabbit Anti Mouse IgG (STAR13...)       | <a href="#">HRP</a>   |
| Goat Anti Mouse IgG (STAR70...)         | <a href="#">FITC</a>  |
| Goat Anti Mouse IgG (H/L) (STAR117...)  | <a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> ,<br><a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> ,<br><a href="#">FITC</a> , <a href="#">HRP</a> |
| Rabbit Anti Mouse IgG (STAR9...)        | <a href="#">FITC</a>  |
| Goat Anti Mouse IgG (STAR77...)         | <a href="#">HRP</a>   |
| Goat Anti Mouse IgG (Fc) (STAR120...)   | <a href="#">FITC</a> , <a href="#">HRP</a>  |

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