

## Datasheet: MCA193B

<b>Description:</b>	MOUSE ANTI RAT IgE:Biotin
<b>Specificity:</b>	IgE
<b>Format:</b>	Biotin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MARE-1
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.5 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	▪			500ng/ml as detecting antibody
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 conjugated to Biotin - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on IR2 rat IgE myeloma from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.1% Sodium Azide
<b>Stabilisers</b>	50% Glycerol
<b>Approx. Protein Concentrations</b>	IgG concentration 1 mg/ml
<b>Immunogen</b>	Rat IR162, IR1016, IR2 and IR410 IgE myeloma proteins.
<b>External Database Links</b>	<b>UniProt:</b>

**Entrez Gene:**

[299351](#) Ighe   [Related reagents](#)

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<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
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<b>Specificity</b>	<p><b>Mouse anti Rat IgE antibody, clone MARE-1</b> recognizes rat epsilon heavy chain of immunoglobulin IgE and does not cross-react with other classes of rat immunoglobulin.</p> <p>Mouse anti Rat IgE antibody, clone MARE-1 binds to rat IgE with an avidity of <math>4 \times 10^9 \text{M}^{-1}</math></p>
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<b>References</b>	<ol style="list-style-type: none"><li>1. Negrão-Corrêa, D. <i>et al.</i> (1996) Intestinal transport and catabolism of IgE: a major blood-independent pathway of IgE dissemination during a <i>Trichinella spiralis</i> infection of rats. <a href="#">J Immunol. 157 (9): 4037-44.</a></li><li>2. Bazin, H. <i>et al.</i> (1984) Rat monoclonal antibodies. I. Rapid purification from <i>in vitro</i> culture supernatants. <a href="#">J Immunol Methods. 66 (2): 261-9.</a></li><li>3. Bazin, H. <i>et al.</i> (1974) Transplantable immunoglobulin-secreting tumours in rats. IV. Sixty-three IgE-secreting immunocytoma tumours. <a href="#">Immunology. 26 (4): 713-23.</a></li><li>4. Bazin, H. <i>et al.</i> (1978) Transplantable IgD immunoglobulin-secreting tumors in rat. <a href="#">J Immunol. 121 (5): 2077-82.</a></li><li>5. Bazin, H. <i>et al.</i> (1984) Rat monoclonal antibodies. II. A rapid and efficient method of purification from ascitic fluid or serum. <a href="#">J Immunol Methods. 71 (1): 9-16.</a></li><li>6. Cho, J.K. &amp; Cho, S.W. (2000) Shared epitope for monoclonal IR162 between <i>Anisakis simplex</i> larvae and <i>Clonorchis sinensis</i> and cross-reactivity between antigens. <a href="#">J Parasitol. 86 (5): 1145-9.</a></li><li>7. Silveira, M.R. <i>et al.</i> (2002) Infection with <i>Strongyloides venezuelensis</i> induces transient airway eosinophilic inflammation, an increase in immunoglobulin E, and hyperresponsiveness in rats. <a href="#">Infect Immun. 70: 6263-72.</a></li><li>8. Korinek, M. <i>et al.</i> (2016) Anti-allergic potential of <i>Typhonium blumei</i>: inhibition of degranulation via suppression of PI3K/PLC<math>\gamma</math>2 phosphorylation and calcium influx. <a href="#">Phytomedicine. 23 (14): 1706-15.</a></li><li>9. Bąbolewska, E. &amp; Brzezińska-błaszczyk, E. (2015) Human-derived cathelicidin LL-37 directly activates mast cells to proinflammatory mediator synthesis and migratory response. <a href="#">Cell Immunol. 293 (2): 67-73.</a></li><li>10. Agier, J. <i>et al.</i> (2018) Cathelicidin LL-37 Affects Surface and Intracellular Toll-Like Receptor Expression in Tissue Mast Cells. <a href="#">J Immunol Res. 2018: 7357162.</a></li></ol>
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<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>
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<b>Shelf Life</b>	18 months from date of despatch.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10328 available at: 10328: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10328.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10328.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Biotin \(MCA1209B\)](#)

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

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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