

Datasheet: MCA193B

BATCH NUMBER 147070

Description:	MOUSE ANTI RAT IgE:Biotin
Specificity:	IgE
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	MARE-1
Isotype:	IgG1
Quantity:	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.

	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.

Target Species	Rat
Product Form	Purified IgG conjugated to Biotin - liquid
Preparation	Purified IgG prepared by affinity chromatography on IR2 rat IgE myeloma from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.1% Sodium Azide 50% Glycerol

Approx. Protein Concentrations	IgG concentration 1 mg/ml
Immunogen	Rat IR162, IR1016, IR2 and IR410 IgE myeloma proteins.
External Database Links	<p>UniProt: P01855 Related reagents</p> <p>Entrez Gene: 299351 Ighe Related reagents</p>
RRID	AB_321900
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	<p>Mouse anti Rat IgE antibody, clone MARE-1 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 $4 \times 10^9 \text{M}^{-1}$</p>
References	<ol style="list-style-type: none"> 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. J Immunol. 157 (9): 4037-44. Bazin, H. <i>et al.</i> (1984) Rat monoclonal antibodies. I. Rapid purification from <i>in vitro</i> culture supernatants. J Immunol Methods. 66 (2): 261-9. Bazin, H. <i>et al.</i> (1974) Transplantable immunoglobulin-secreting tumours in rats. IV. Sixty-three IgE-secreting immunocytoma tumours. Immunology. 26 (4): 713-23. Bazin, H. <i>et al.</i> (1978) Transplantable IgD immunoglobulin-secreting tumors in rat. J Immunol. 121 (5): 2077-82. Bazin, H. <i>et al.</i> (1984) Rat monoclonal antibodies. II. A rapid and efficient method of purification from ascitic fluid or serum. J Immunol Methods. 71 (1): 9-16. Cho, J.K. & 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. J Parasitol. 86 (5): 1145-9. 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. Infect Immun. 70: 6263-72. Korinek, M. <i>et al.</i> (2016) Anti-allergic potential of <i>Typhonium blumei</i>: inhibition of degranulation via suppression of PI3K/PLCγ2 phosphorylation and calcium influx. Phytomedicine. 23 (14): 1706-15. Bąbolewska, E. & Brzezińska-błaszczyk, E. (2015) Human-derived cathelicidin LL-37 directly activates mast cells to proinflammatory mediator synthesis and migratory response. Cell Immunol. 293 (2): 67-73. Agier, J. <i>et al.</i> (2018) Cathelicidin LL-37 Affects Surface and Intracellular Toll-Like Receptor Expression in Tissue Mast Cells. J Immunol Res. 2018: 7357162. 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. [Int Immunol. 30 \(2\): 53-67.](#)
12. Witczak, P. *et al.* (2020) The Response of Tissue Mast Cells to TLR3 Ligand Poly(I:C) Treatment. [J Immunol Res. 2020: 2140694.](#)

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

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10328 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA193B>
10328

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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