

## Datasheet: MCA189B BATCH NUMBER 160928

Description:	MOUSE ANTI RAT IgM HEAVY CHAIN:Biotin
Specificity:	IgM HEAVY CHAIN
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	MARM-4
Isotype:	lgG1
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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry				
Immunohistology - Frozen				
Immunohistology - Paraffin				
ELISA	•			125ng/ml as detecting antibody

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 from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide 50% Glycerol
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen	IR202 rat IgM myeloma protein
RRID	AB_321875
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	Mouse anti Rat IgM Heavy Chain antibody, clone MARM-4 recognizes the mu heavy chain of rat immunoglobulin and does not cross-react with other immunoglobulin classes.
References	1. Bazin, H. <i>et al.</i> (1974) Three classes and four (sub)classes of rat immunoglobulins: IgM, IgA, IgE and IgG1, IgG2a, IgG2b, IgG2c. <u>Eur J Immunol. 4 (1): 44-8.</u> 2. Bazin, H. <i>et al.</i> (1978) Transplantable IgD immunoglobulin-secreting tumors in rat. <u>J Immunol. 121 (5): 2077-82.</u> 3. Khalifeh, M.S. <i>et al.</i> (2010) Investigation ofthe role of tumour necrosis factor-{alpha}, interleukin-1{beta}, interleukin-10, nitric oxide and rheumatoid factor-immunoglobulin M in a rat model of arthritis. <u>Lab Anim. 44: 143-9.</u> 4. Bézie, S. <i>et al.</i> (2015) Compensatory Regulatory Networks between CD8 T, B, and Myeloid Cells in Organ Transplantation Tolerance. <u>J Immunol. 195 (12): 5805-15.</u> 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. <u>Int Immunol. 30 (2): 53-67.</u>
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 #10049 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA189B">https://www.bio-rad-antibodies.com/SDS/MCA189B</a> 10049
Regulatory	For research purposes only

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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 'M365877:200529'

## Printed on 18 Jan 2024