

# Datasheet: MCA189 BATCH NUMBER 156391

Description:	MOUSE ANTI RAT IgM HEAVY CHAIN		
Specificity:	IgM HEAVY CHAIN		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	MARM-4		
Isotype:	lgG1		
Quantity:	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 <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	•			5ug/ml as coating antibody
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.

Target Species	Rat
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.1% Sodium Azide
Approx. Protein	IgG concentration 1.0 mg/ml

## Concentrations **Immunogen** IR202 rat IgM myeloma protein **RRID** AB\_321874 **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. **ELISA** This antibody may be used as a coating antibody in a sandwich ELISA in combination with clone MARK-1/MARL-15 (Product code MCA1296P) as detection reagent and purified rat IgM (Product code PRP08). References 1. Bazin, H. et al. (1974) Three classes and four (sub)classes of rat immunoglobulins: IgM, IgA, IgE and IgG1, IgG2a, IgG2b, IgG2c. Eur J Immunol. 4 (1): 44-8. 2. Bazin, H. et al. (1978) Transplantable IgD immunoglobulin-secreting tumors in rat. J Immunol. 121 (5): 2077-82. 3. Khalifeh, M.S. et al. (2010) Investigation of the role of tumour necrosis factor-{alpha}, interleukin-1{beta}, interleukin-10, nitric oxide and rheumatoid factor-immunoglobulin M in a rat model of arthritis. Lab Anim. 44: 143-9. 4. Bézie, S. et al. (2015) Compensatory Regulatory Networks between CD8 T, B, and Myeloid Cells in Organ Transplantation Tolerance. J Immunol. 195 (12): 5805-15. 5. Ueta, H. et al. (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. **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 #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA189">https://www.bio-rad-antibodies.com/SDS/MCA189</a>

**Regulatory** For research purposes only

10040

## Related Products

## **Recommended Secondary Antibodies**

Rabbit Anti Mouse IgG (STAR12...) RPE

Goat Anti Mouse IgG IgA IgM (STAR87...) <u>HRP</u>
Goat Anti Mouse IgG (STAR76...) <u>RPE</u>
Rabbit Anti Mouse IgG (STAR13...) <u>HRP</u>

Goat Anti Mouse IgG (STAR70...) FITC

Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®550,

DyLight®650, DyLight®680, DyLight®800,

FITC, HRP

Rabbit Anti Mouse IgG (STAR9...) FITC
Goat Anti Mouse IgG (STAR77...) HRP

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M365858:200529'

#### Printed on 18 Jan 2024

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint