

## Datasheet: MCA189B BATCH NUMBER 159596

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 <u>www.bio-rad-antibodies.com/protocols</u> .				
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry				
	Immunohistology - Frozen			•	
	Immunohistology - Paraffin			•	
	ELISA	-			125ng/ml as detecting antibody
	Where this antibody has necessarily exclude its us a guide only. It is recomn system using appropriate	se in such nended th	procedur at the use	es. Suggested worki r titrates the antibod	ing dilutions are given as
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	<0.1% Sodium Azide (NaN <sub>3</sub> ) 0.2% Bovine Serum Albumin				
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	<ol> <li>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></li> <li>Bazin, H. <i>et al.</i> (1978) Transplantable IgD immunoglobulin-secreting tumors in rat. <u>J</u> <u>Immunol. 121 (5): 2077-82.</u></li> <li>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></li> <li>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></li> <li>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></li> </ol>				
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.				
	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.				
Guarantee	12 months from date of despatch				
Health And Safety Information	Material Safety Datasheet documentation #10049 available at: https://www.bio-rad-antibodies.com/SDS/MCA189B 10049				
Regulatory	For research purposes only				
orth & South Tel: +1 800 269 merica Fax: +1 919 87 Email: antibody					
To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M389351:210806'					
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