

# Datasheet: MCA189F BATCH NUMBER 166087

Description:	MOUSE ANTI RAT IgM HEAVY CHAIN: FITC
Specificity:	IgM HEAVY CHAIN
Format:	FITC
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-</u>							
	rad-antibodies.com/pro							
	Flow Cytometry	Yes	No	Not Determined	Suggested Dilution 10ug/ml			
	Where this antibody has not been tested for use in a particular technique this does necessarily exclude its use in such procedures. Suggested working dilutions are gi a guide only. It is recommended that the user titrates the antibody for use in their o							
	system using appropri	iate negative/po	sitive co	ontrols.				
Target Species	Rat							
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid							
Max Ex/Em	Fluorophore	Excitation Max	(nm)	Emission Max (nm)				
	FITC	490		525				
Preparation	Purified IgG prepared	by affinity chror	natogra	phy from tissue cult	ure supernatant			
Buffer Solution	Phosphate buffered sa	aline						
Preservative Stabilisers	0.1% Sodium Azide							
	50% Glycerol							
Approx. Protein Concentrations	IgG concentration 1.0	mg/ml						

Immunogen	IR202 rat IgM myeloma protein
RRID	AB_321876
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.
Flow Cytometry	Use 50ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
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> <li>Tulinská, J. <i>et al.</i> (2018) Humoral and cellular immune response in Wistar Han RCC rats fed two genetically modified maize MON810 varieties for 90 days (EU 7th Framework Programme project GRACE). <u>Arch Toxicol. 92 (7): 2385-99.</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. This product is photosensitive and should be protected from light.
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/MCA189F 10328
Regulatory	For research purposes only

## **Related Products**

#### **Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA1209F)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-r	Worldwide ad.com	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-	Europe rad.com	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-ra	To		
batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M384991:210513'								

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