

Datasheet: MCA278B BATCH NUMBER 160898

Description:	MOUSE ANTI RAT IgG2a HEAVY CHAIN:Biotin		
Specificity:	IgG2a HEAVY CHAIN		
Format:	Biotin		
Product Type:	Monoclonal Antibody		
Clone:	MARG2a-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
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 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 50% Glycerol
Approx. Protein	IgG concentration 1 mg/ml

Concentrations

Immunogen	Purified rat IgG2a.
External Database Links	UniProt:
	P20760 Related reagents
	Entrez Gene:
	679045 LOC679045 Related reagents
RRID	AB_321826
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells of the PAI-0 mouse myeloma cell line.
Specificity	Mouse anti Rat IgG2a heavy chain antibody, clone MARG2a-1 recognizes the rat gamma 2a immunoglobulin heavy chain, and does not cross-react with other immunoglobulin classes or subclasses.
	Avidity of Mouse anti Rat IgG2a heavy chain antibody, clone MARG2a-1 for rat IgG2a = $2.1 \times 10^9 \text{M}^{-1}$.
References	1. Bazin, H. <i>et al.</i> (1973) Brief communication: Transplantable immunoglobulin-secreting tumors in rats. V. Monoclonal immunoglobulins secreted by 250 ileocecal immunocytomas in LOU-Wsl rats. J Natl Cancer Inst. 51 (4): 1359-61.
	2. Bazin, H. et al. (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> 3. Sandin, L.C. <i>et al.</i> (2014) Locally delivered CD40 agonist antibody accumulates in
	secondary lymphoid organs and eradicates experimental disseminated bladder cancer. Cancer Immunol Res. 2 (1): 80-90.
	4. Bézie, S. <i>et al.</i> (2015) Fibrinogen-like protein 2/fibroleukin induces long-term allograft survival in a rat model through regulatory B cells. <u>PLoS One. 10 (3): e0119686.</u>
	5. 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>
	6. 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>
	7. Huizinga, R. <i>et al.</i> (2012) Sialylation of <i>Campylobacter jejuni</i> lipo-oligosaccharides:
	impact on phagocytosis and cytokine production in mice. PLoS One. 7 (3): e34416.
Further Reading	1. Köhler, G. & Milstein, C. (1975) Continuous cultures of fused cells secreting antibody of predefined specificity. Nature. 256 (5517): 495-7.
	2. Bazin, H. <i>et al.</i> (1978) Transplantable IgD immunoglobulin-secreting tumors in rat. <u>J.</u>
	Immunol. 121: 2077-2082. 3. Shulman, M. <i>et al.</i> (1978) A better cell line for making hybridomas secreting specific
	antibodies. Nature. 276 (5685): 269-70.
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at

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 #10328 available at: https://www.bio-rad-antibodies.com/SDS/MCA278B 10328
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:Biotin (MCA1209B)

 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 'M384469:210513'

Printed on 18 Apr 2024

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint