

Datasheet: MCA278F

Description:	MOUSE ANTI RAT IgG2a HEAVY CHAIN:FITC
Specificity:	IgG2a HEAVY CHAIN
Format:	FITC
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	■			5ug/ml
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	

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 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 chromatography from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.1% Sodium Azide		
	50% Glycerol		
Approx. Protein Concentrations	IgG concentration 1 mg/ml		
Immunogen	purified rat IgG2a.		
External Database Links	UniProt: P20760 Related reagents		

Entrez Gene:[679045](#) [LOC679045](#) [Related reagents](#)

Fusion Partners	Spleen cells from immunised 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 = 2.1×10^9 M⁻¹.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.
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. Eur J Immunol. 4 (1): 44-8. 2. Shulman, M. <i>et al.</i> (1978) A better cell line for making hybridomas secreting specific antibodies. Nature. 276 (5685): 269-70. 3. 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. 4. 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. 5. Bézie S <i>et al.</i> (2015) Compensatory Regulatory Networks between CD8 T, B, and Myeloid Cells in Organ Transplantation Tolerance. J Immunol. 195 (12): 5805-15. 6. Bézie, S. <i>et al.</i> (2015) Fibrinogen-like protein 2/fibroblast growth factor induces long-term allograft survival in a rat model through regulatory B cells. PLoS One. 10 (3): e0119686.
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. J. Immunol. 121: 2077-2082.
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. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10328 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10328.pdf

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA1209F\)](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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