

## Datasheet: MCA278F

<b>Description:</b>	MOUSE ANTI RAT IgG2a HEAVY CHAIN:FITC
<b>Specificity:</b>	IgG2a HEAVY CHAIN
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MARG2a-1
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Rat		
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Preparation</b>	Purified IgG prepared by affinity chromatography from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.1% Sodium Azide		
<b>Stabilisers</b>	50% Glycerol		
<b>Approx. Protein Concentrations</b>	IgG concentration 1 mg/ml		
<b>Immunogen</b>	purified rat IgG2a.		
<b>External Database Links</b>	<b>UniProt:</b>		
	<a href="#">P20760</a>	<a href="#">Related reagents</a>	

**Entrez Gene:**

[679045](#) [LOC679045](#) [Related reagents](#)

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<b>RRID</b>	AB_321827
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<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the PAI-0 mouse myeloma cell line.
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<b>Specificity</b>	<p><b>Mouse anti Rat IgG2a heavy chain antibody, clone MARG2a-1</b> recognizes the rat gamma 2a immunoglobulin heavy chain, and does not cross-react with other immunoglobulin classes or subclasses.</p> <p>Avidity of Mouse anti Rat IgG2a heavy chain antibody, clone MARG2a-1 for rat IgG2a = <math>2.1 \times 10^9</math> M<sup>-1</sup>.</p>
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<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
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<b>References</b>	<ol style="list-style-type: none"><li>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. <a href="#">Eur J Immunol. 4 (1): 44-8.</a></li><li>2. Shulman, M. <i>et al.</i> (1978) A better cell line for making hybridomas secreting specific antibodies. <a href="#">Nature. 276 (5685): 269-70.</a></li><li>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. <a href="#">J Natl Cancer Inst. 51 (4): 1359-61.</a></li><li>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. <a href="#">Cancer Immunol Res. 2 (1): 80-90.</a></li><li>5. Bézie S <i>et al.</i> (2015) Compensatory Regulatory Networks between CD8 T, B, and Myeloid Cells in Organ Transplantation Tolerance. <a href="#">J Immunol. 195 (12): 5805-15.</a></li><li>6. 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. <a href="#">PLoS One. 10 (3): e0119686.</a></li></ol>
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<b>Further Reading</b>	<ol style="list-style-type: none"><li>1. Köhler, G. &amp; Milstein, C. (1975) Continuous cultures of fused cells secreting antibody of predefined specificity. <a href="#">Nature. 256 (5517): 495-7.</a></li><li>2. Bazin, H. <i>et al.</i> (1978) Transplantable IgD immunoglobulin-secreting tumors in rat. <a href="#">J. Immunol. 121: 2077-2082.</a></li></ol>
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<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10328 available at: 10328: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10328.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10328.pdf</a>
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## Related Products

### Recommended Negative Controls

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

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