

## Datasheet: MCA6000F

<b>Description:</b>	MOUSE ANTI MOUSE CD32B:FITC
<b>Specificity:</b>	CD32B
<b>Other names:</b>	FcRIIB
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AT130-5
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 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	▪			Neat - 1/10

Where this product 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 product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Mouse		
<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 on Protein G from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml		

<b>Immunogen</b>	Mouse CD32-rat CD4 fusion protein.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P08101</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">14130</a>    Fcgr2b    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Fcgr2b, Ly-17
<b>Fusion Partners</b>	Spleen cells from immunized mice were fused with cells of the NS-1 myeloma cell line.
<b>Specificity</b>	<b>Mouse anti Mouse CD32B, clone AT130-5</b> , recognizes mouse CD32B also known as FcRIIB. CD32B (FcRIIB) is a low affinity receptor for IgG1, IgG2a and IgG2b type antibodies. Unlike other FcRs, the intracellular domain of CD32B contains a inhibitory signalling motif (ITIM) that can antagonize signal transduction mediated through other activatory receptors. FcRIIB is expressed on all myeloid populations and on B-cells.
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul
<b>References</b>	<ol style="list-style-type: none"> <li>1. White, A. <i>et al.</i> (2011) Interaction with FcγRIIB is critical for the agonistic activity of anti-CD40 monoclonal antibody. <a href="#">J Immunol. 187: 1754-1763</a></li> <li>2. Williams, E.L. <i>et al.</i> (2012) Development and characterisation of monoclonal antibodies specific for the murine inhibitory FcγRIIB (CD32B). <a href="#">Eur J Immunol. 42: 2109-20</a></li> <li>3. Jimenez, R.V. <i>et al.</i> (2018) C-Reactive Protein Impairs Dendritic Cell Development, Maturation, and Function: Implications for Peripheral Tolerance. <a href="#">Front Immunol. 9: 372.</a></li> <li>4. Merlo, L.M.F. <i>et al.</i> (2017) Therapeutic antibody targeting of indoleamine-2,3-dioxygenase (IDO2) inhibits autoimmune arthritis. <a href="#">Clin Immunol. 179: 8-16.</a></li> </ol>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA6000F10041">https://www.bio-rad-antibodies.com/SDS/MCA6000F10041</a>
<b>Regulatory</b>	For research purposes only

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'M433898:250113'

**Printed on 13 Jan 2025**

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