

## Datasheet: MCA5998F

<b>Description:</b>	RAT ANTI MOUSE CD16:FITC
<b>Specificity:</b>	CD16
<b>Other names:</b>	FcR111
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AT154-2
<b>Isotype:</b>	IgG2b
<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>	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation (nm)</th> <th>Emission (nm)</th> </tr> </thead> <tbody> <tr> <td>FITC</td> <td>490</td> <td>520</td> </tr> </tbody> </table>	Fluorophore	Excitation (nm)	Emission (nm)	FITC	490	520
Fluorophore	Excitation (nm)	Emission (nm)					
FITC	490	520					
<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</b>	0.09% Sodium Azide (NaN <sub>3</sub> )						
<b>Stabilisers</b>	1% Bovine Serum Albumin						
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml						
<b>Immunogen</b>	HEK293F cell expressing CD16 and gamma chain						
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P08508</a> <a href="#">Related reagents</a>						

**Entrez Gene:**

[14131](#) Fcgr3 [Related reagents](#)

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<b>Fusion Partners</b>	Spleen cells from immunised rats were fused with cells of the NS-1 myeloma cell line
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<b>Specificity</b>	<p><b>Rat anti Mouse CD16 antibody, clone AT154-2</b>, recognizes CD16, also known as FcRIII. CD16 is a low affinity activatory receptor which interacts preferentially with mouse IgG1, IgG2a and IgG2b immune complexes and is involved in various effector functions including phagocytosis, NK antibody dependent cellular cytotoxicity and the release of inflammatory mediators.</p> <p>In mice, CD16 is expressed on macrophages, NK cells, granulocytes, myeloid precursors and subpopulations of T lymphocytes.</p>
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<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul
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<b>References</b>	<ol style="list-style-type: none"><li>White AL <i>et al.</i> (2011) Interaction with FcγRIIB is critical for the agonistic activity of anti-CD40 monoclonal antibody. <a href="#">J Immunol. 187 (4): 1754-63.</a></li><li>Tutt, A.L. <i>et al.</i> (2015) Development and Characterization of Monoclonal Antibodies Specific for Mouse and Human Fcγ Receptors. <a href="#">J Immunol. 195 (11): 5503-16.</a></li></ol>
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<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. 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>Shelf Life</b>	18 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a>
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<b>Regulatory</b>	For research purposes only
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