

Datasheet: MCA5998F

BATCH NUMBER 161018

Description:	RAT ANTI MOUSE CD16:FITC
Specificity:	CD16
Other names:	FcRIII
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	AT154-2
Isotype:	IgG2b
Quantity:	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.

	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.

Target Species	Mouse						
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid						
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>FITC</td> <td>490</td> <td>525</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	FITC	490	525
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
FITC	490	525					
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative	<0.1% Sodium Azide (NaN ₃)						
Stabilisers	1% Bovine Serum Albumin						
Approx. Protein	IgG concentration 0.1 mg/ml						

Concentrations

Immunogen HEK293F cell expressing CD16 and gamma chain

External Database Links

UniProt:

[P08508](#) [Related reagents](#)

Entrez Gene:

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

Fusion Partners Spleen cells from immunised rats were fused with cells of the NS-1 myeloma cell line

Specificity **Rat anti Mouse CD16 anitbody, clone AT154-2**, recognizes CD16, also known as FcRIII. CD16 is a low affiniity 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.

In mice, CD16 is expressed on macrophages, NK cells, granulocytes, myeloid precursors and subpopulations of T lymphocytes.

Flow Cytometry Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul

References

1. White AL *et al.* (2011) Interaction with FcyRIIB is critical for the agonistic activity of anti-CD40 monoclonal antibody. [J Immunol. 187 \(4\): 1754-63.](#)
 2. Tutt, A.L. *et al.* (2015) Development and Characterization of Monoclonal Antibodies Specific for Mouse and Human Fcy Receptors. [J Immunol. 195 \(11\): 5503-16.](#)
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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 #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA5998F>
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Regulatory For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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