

Datasheet: MCA5999 BATCH NUMBER 166756

Description:	RAT ANTI MOUSE CD16-2
Specificity:	CD16-2
Other names:	FcRIV
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AT137
Isotype:	lgG2a
Quantity:	0.25 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	-			1/10
Immunohistology - Frozen	-			1/100 - 1/1000

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 - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	TRIS buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen	Fusion Protein consisting of mouse CD16-2 and rat CD4
External Database Links	UniProt: Q8R477 Related reagents
Fusion Partners	Spleen cells from immunised rats were fused with cells of the NS-1 myeloma cell line
Specificity	Rat anti mouse CD16-2 antibody, clone AT137, recognizes CD16-2, also known as FcRIV. CD16-2 is a low affinity activatory receptor that binds to IgG2a and IgG2b with intermediate affinity. FcRIV has no affinity for IgG1 or IgG3 and therefore has a unique subclass specificity when compared to other Fc receptors. Expression of CD16-2 is restricted to cells of the myeloid lineage.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul
References	 White, A.L. <i>et al.</i> (2011) Interaction with FcγRIIB is critical for the agonistic activity of anti-CD40 monoclonal antibody. <u>J Immunol. 187 (4): 1754-63.</u> Lunnon, K. <i>et al.</i> (2011) Systemic inflammation modulates Fc receptor expression on microglia during chronic neurodegeneration. <u>J Immunol. 186: 7215-24</u> Tutt AL <i>et al.</i> (2015) Development and Characterization of Monoclonal Antibodies Specific for Mouse and Human Fcγ Receptors. <u>J Immunol. 195 (11): 5503-16.</u>
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 #10057 available at: https://www.bio-rad-antibodies.com/SDS/MCA5999 10057
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16)	DyLight®800
Rabbit Anti Rat IgG (STAR17)	<u>FITC</u>
Goat Anti Rat IgG (STAR72)	<u>HRP</u>
Goat Anti Rat IgG (STAR69)	<u>FITC</u>
Goat Anti Rat IgG (STAR73)	RPE
Rabbit Anti Rat IgG (STAR21)	<u>HRP</u>

Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) <u>DyLight®550</u>, <u>DyLight®650</u>, <u>DyLight®800</u> Goat Anti Rat IgG (STAR131...) <u>Alk. Phos.</u>, <u>Biotin</u>

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL (MCA1212)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M389653:210806'

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