

Datasheet: MCA2305A488

Description:	RAT ANTI MOUSE CD16/CD32:Alexa Fluor® 488
Specificity:	CD16/CD32
Other names:	MOUSE SEROBLOCK FcR
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	FCR4G8
Isotype:	IgG2b
Quantity:	100 TESTS/1ml

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 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.

Target Species	Mouse		
Product Form	Purified IgG conjugated to Alexa Fluor® 488 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®488	495	519
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml		

Immunogen	PU5 1.8 IOE7 Balb/c mouse cell line.
External Database Links	<p>UniProt:</p> <p>P08508 Related reagents</p> <p>P08101 Related reagents</p> <p>Entrez Gene:</p> <p>14131 Fcgr3 Related reagents</p> <p>14130 Fcgr2b Related reagents</p>
Synonyms	Fcgr2b, Ly-17
RRID	AB_566549
Fusion Partners	Cells from immunised rats were fused with cells of the mouse P3X63-Ag8.653 myeloma cell line.
Specificity	Rat anti Mouse CD16/CD32 antibody, clone FCR4G8 recognizes an epitope expressed by the murine low affinity Fc receptors, Fc gamma III (CD16) and Fc gamma II (CD32). In the mouse only the transmembrane form of CD16 is reported to exist, which is expressed on macrophages, NK cells, granulocytes, myeloid precursors, and subpopulations of T lymphocytes. CD32 is primarily expressed on cells of the myeloid lineage and also on mature B lymphocytes.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. da Silva, R.G. <i>et al.</i> (2010) Endothelial alpha3beta1-integrin represses pathological angiogenesis and sustains endothelial-VEGF. Am J Pathol. 177 (3): 1534-48. 2. Birjandi, S.Z. <i>et al.</i> (2011) Alterations in marginal zone macrophages and marginal zone B cells in old mice. J Immunol. 186: 3441-51. 3. Jones, D.T. <i>et al.</i> (2013) Endogenous ribosomal protein L29 (RPL29): a newly identified regulator of angiogenesis in mice. Dis Model Mech. 6: 115-24. 4. Kapellos, T.S. <i>et al.</i> (2016) A Novel Real Time Imaging Platform to Quantify Macrophage Phagocytosis. Biochem Pharmacol. Jul 27. pii: S0006-2952(16)30176-9. [Epub ahead of print] 5. Lunnon, K. <i>et al.</i> (2011) Systemic inflammation modulates Fc receptor expression on microglia during chronic neurodegeneration. J Immunol. 186 (12): 7215-24. 6. Teeling, J.L. <i>et al.</i> (2012) Intracerebral immune complex formation induces inflammation in the brain that depends on Fc receptor interaction. Acta Neuropathol. 124 (4): 479-90. 7. Murinello, S. <i>et al.</i> (2014) Fcy receptor upregulation is associated with immune complex inflammation in the mouse retina and early age-related macular degeneration. Invest Ophthalmol Vis Sci. 55 (1): 247-58. 8. Hart, A.D. <i>et al.</i> (2012) Age related changes in microglial phenotype vary between CNS regions: grey versus white matter differences. Brain Behav Immun. 26 (5): 754-65. 9. Birjandi, S.Z. <i>et al.</i> (2011) Alterations in marginal zone macrophages and marginal zone B cells in old mice. J Immunol. 186 (6): 3441-51. 10. Hart, R. & Greaves, D.R. (2010) Chemerin contributes to inflammation by promoting

macrophage adhesion to VCAM-1 and fibronectin through clustering of VLA-4 and VLA-5.
[J Immunol. 185 \(6\): 3728-39.](#)

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. This product is photosensitive and should be protected from light.

Guarantee 12 months from date of despatch

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Health And Safety Information Material Safety Datasheet documentation #10041 available at:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

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'M385667:210513'

Printed on 29 Aug 2021

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