

Datasheet: MCA2305EL

BATCH NUMBER 152626

Description:	RAT ANTI MOUSE CD16/CD32:Low Endotoxin
Specificity:	CD16/CD32
Other names:	MOUSE SEROBLOCK FcR
Format:	Low Endotoxin
Product Type:	Monoclonal Antibody
Clone:	FCR4G8
Isotype:	IgG2b
Quantity:	0.5 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	▪			1/25 - 1/50
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Functional Assays	▪			

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 - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	None present

Stabilisers	
Carrier Free	Yes
Endotoxin Level	< 0.01 EU/ug
Approx. Protein Concentrations	IgG concentration 1.0 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_2231703
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. *et al.* (2014) Fcγ 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. *et al.* (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. *et al.* (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.](#)
11. Ahmed, N. *et al.* (2022) Blood stem cell PU.1 upregulation is a consequence of differentiation without fast autoregulation. [J Exp Med. 219 \(1\): e20202490.](#)

Storage	<p>Store at -20°C only.</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>
Guarantee	12 months from date of despatch
Health And Safety Information	<p>Material Safety Datasheet documentation #10162 available at: https://www.bio-rad-antibodies.com/SDS/MCA2305EL</p> <p>10162</p>
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®550 , DyLight®650 , DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin

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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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