

Datasheet: MCA1898GA

Description:	ion: RAT ANTI MOUSE CD115	
Specificity:	CD115	
Other names:	c-fms	
Format:	Purified	
Product Type:	Monoclonal Antibody	
Clone:	604B5 2E11	
Isotype:	lgG1	
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	•			1/25 - 1/50
Immunohistology - Frozen			•	
Immunohistology - Paraffin			•	
ELISA			•	
Immunoprecipitation			•	
Western Blotting			•	

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 ion exchange chromatography from ascites
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Raw 264 cells.		
UniProt:		
P09581 Related reagents		
Entrez Gene:		
12978 Csf1r Related reagents		
Csfmr, Fms		
AB_2085220		
Spleen cells from immunised Sprague Dawley rats were fused with cells of the P3-653 myeloma cell line.		
Rat anti Mouse CD115 antibody, clone 604B5 2E11 recognizes the murine CD115 cell surface antigen, also known as the M-CSF receptor and as c-fms. Murine CD115 is a 958 amino acid 110kDa single pass type I transmembrane glycoprotein with tyrosine kinase activity and acts as a membrane receptor for M-CSF.		
CD115 is expressed by cells of the monocytic lineage and by progenitor cells. Rat anti Mouse CD115 antibody, clone 604B5 2E11 has been shown to inhibit <i>in vitro</i> colony formation in response to M-CSF in both rats and mice.		
Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl		
 Shadduck, R.K. <i>et al.</i> (1996) Paradoxical stimulation of normal and leukemic rat hematopoiesis by monoclonal antibody to CSF-1 receptor. <u>Exp Hematol. 24 (2): 314-7.</u> Gilmore, G.L. & Shadduck, R.K. (1995) Inhibition of day-12 spleen colony-forming units by a monoclonal antibody to the murine macrophage/monocyte colony-stimulating factor receptor. <u>Blood. 85 (10): 2731-4.</u> MacDonald, K.P. <i>et al.</i> (2005) The colony-stimulating factor 1 receptor is expressed on dendritic cells during differentiation and regulates their expansion. <u>J Immunol. 175 (3): 1399-405.</u> 		
 Buono, M. <i>et al.</i> (2010) Sulfatase modifying factor 1-mediated fibroblast growth factor signaling primes hematopoietic multilineage development. <u>J Exp Med. 207 (8): 1647-60.</u> Weingärtner, O. <i>et al.</i> (2011) Differential effects on inhibition of cholesterol absorption by plant stanol and plant sterol esters in apoE-/- mice. <u>Cardiovasc Res. 90: 484-92.</u> Hayashi, Y. <i>et al.</i> (2010) Lumican is required for neutrophil extravasation following corneal injury and wound healing. <u>J Cell Sci.123: 2987-95.</u> Herold, S. <i>et al.</i> (2008) Lung epithelial apoptosis in influenza virus pneumonia: the role of macrophage-expressed TNF-related apoptosis-inducing ligand. <u>J Exp Med. 205:</u> 		

- 8. Pillai, M.M. *et al.* (2009) Inducible transgenes under the control of the hCD68 promoter identifies mouse macrophages with a distribution that differs from the F4/80 and CSF-1R-expressing populations. <u>Exp Hematol. 37: 1387-92.</u>
- 9. Sasmono, R.T. et al. (2007) Mouse neutrophilic granulocytes express mRNA encoding

the macrophage colony-stimulating factor receptor (CSF-1R) as well as many other macrophage-specific transcripts and can transdifferentiate into macrophages *in vitro* in response to CSF-1. J Leukoc Biol. 82: 111-23.

- 10. Dioszeghy V *et al.* (2008) 12/15-Lipoxygenase regulates the inflammatory response to bacterial products *in vivo*. <u>J Immunol</u>. 181 (9): 6514-24.
- 11. Fancke B *et al.* (2008) M-CSF: a novel plasmacytoid and conventional dendritic cell poietin. <u>Blood. 111 (1): 150-9.</u>
- 12. van Dommelen, S.L. *et al.* (2006) Perforin and granzymes have distinct roles in defensive immunity and immunopathology. <u>Immunity. 25 (5): 835-48.</u>
- 13. Scheller, M. *et al.* (1999) Altered development and cytokine responses of myeloid progenitors in the absence of transcription factor, interferon consensus sequence binding protein. Blood. 94 (11): 3764-71.
- 14. O'Dea, K.P. *et al.* (2009) Mobilization and margination of bone marrow Gr-1high monocytes during subclinical endotoxemia predisposes the lungs toward acute injury. <u>J Immunol.</u> 182 (2): 1155-66.
- 15. Nahrendorf, M. *et al.* (2007) The healing myocardium sequentially mobilizes two monocyte subsets with divergent and complementary functions. <u>J Exp Med. 204 (12):</u> 3037-47.
- 16. Juss, J.K. *et al.* (2012) Functional redundancy of class I phosphoinositide 3-kinase (PI3K) isoforms in signaling growth factor-mediated human neutrophil survival. <u>PLoS One.</u> 7 (9): e45933.

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 #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69...)

Goat Anti Rat IgG (STAR73...)

Rabbit Anti Rat IgG (STAR17...)

FITC

Goat Anti Rat IgG (STAR131...) Alk. Phos., Biotin

Goat Anti Rat IgG (STAR72...) HRP

Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) DyLight®550, DyLight®650, DyLight®800

Rabbit Anti Rat IgG (STAR21...) HRP

Rabbit Anti Rat IgG (STAR16...) DyLight®800

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То

batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M411982:221109'

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