

Datasheet: MCA1283F

BATCH NUMBER 1701

Description:	MOUSE ANTI HUMAN CD88:FITC
Specificity:	CD88
Other names:	C5aR
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	S5/1
Isotype:	lgG2a
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

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	Human			
Species Cross	Reacts with: Rabbit, E	Bovine, Ferret, Mink		
Reactivity	Based on sequence similarity, is expected to react with:Mustelid			
	N.B. Antibody reactivity is derived from personal communicat further information.	om testing within our la	aboratories, peer-rev	•
Product Form	Purified IgG conjugate	ed to Fluorescein Isoth	niocyanata Isamar 1	(EITC) liquid
	. armou igo conjugan	Sa to i laorescent isoti	ilocyanate isomer i	(FITO) - liquiu
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	, ,

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	C5aR - peptide: Met1 - Asn31.
External Database Links	UniProt: P21730 Related reagents Entrez Gene:
	728 C5AR1 Related reagents
Synonyms	C5AR, C5R1
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the X63-Ag8 myeloma cell line.
Specificity	Mouse anti Human CD88 antibody, clone S5/1 recognizes the C5a receptor (C5aR) CD88, which is predominantly expressed on cells of the myeloid lineage. Clone S5/1 was raised against a synthetic peptide comprising the N-terminal extracellular domain of the C5aR (met1-Asn31) and has recently been shown to recognise the heptameric peptide (D15DKDTLD21).
	Clone S5/1 has been shown to inhibit the binding of C5a to its receptor.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	 Oppermann, M. <i>et al.</i> (1995) Antibodies from the myeloid panel that react with the C5a receptor and antagonize C5a biological activity. In: Schlossman, S.F. (ed.) Leucocyte Typing V. O.U.P. pp 955-956. Oppermann, M. & Götze, O. (1994) Plasma clearance of the human C5a anaphylatoxin by binding to leucocyte C5a receptors. Immunology. 82 (4): 516-21. Werfel, T. <i>et al.</i> (1996) CD88 antibodies specifically bind to C5aR on dermal CD117+ and CD14+ cells and react with a desmosomal antigen in human skin. J Immunol. 157 (4): 1729-35. Sumichika, H. <i>et al.</i> (2002) Identification of a potent and orally active non-peptide C5a receptor antagonist. J Biol Chem. 277: 49403-7. Martel, C.J. & Aasted, B. (2009) Characterization of antibodies against ferret immunoglobulins, cytokines and CD markers. Vet Immunol Immunopathol. 132:109-15. Sopp, P. <i>et al.</i> (2007) Cross-reactivity of mAbs to human CD antigens with cells from cattle. Vet Immunol Immunopathol. 119: 106-14. Camous, L. <i>et al.</i> (2011) Complement alternative pathway acts as a positive feedback amplification of neutrophil activation. Blood. 117: 1340-9.

- 8. Corrales, L. *et al.* (2012) Anaphylatoxin C5a Creates a Favorable Microenvironment for Lung Cancer Progression. J Immunol. 189: 4674-83.
- 9. Hüttenrauch, F. *et al.* (2005) G protein-coupled receptor kinases promote phosphorylation and beta-arrestin-mediated internalization of CCR5 homo- and hetero-oligomers. J Biol Chem. 280: 37503-15.
- 10. Aasted, B. and Viuff, B. (2007) Reactivity of monoclonal antibodies to human CD antigens with cells from mink. <u>Vet Immunol Immunopathol</u>. 119: 27-37.
- 11. Thivierge, M. *et al.* (1999) Modulation of formyl peptide receptor expression by IL-10 in human monocytes and neutrophils. <u>J Immunol</u>. 162: 3590-5.
- 12. Schreiber, A. *et al.* (2009) C5a receptor mediates neutrophil activation and ANCA-induced glomerulonephritis. <u>J Am Soc Nephrol. 20: 289-98.</u>
- 13. Eglite, S. *et al.* (2000) Requirements for C5a receptor-mediated IL-4 and IL-13 production and leukotriene C4 generation in human basophils. J Immunol. 165: 2183-9.
- 14. Conroy, A. *et al.* (2009) C5a enhances dysregulated inflammatory and angiogenic responses to malaria in vitro: potential implications for placental malaria. <u>PLoS One. 4:</u> e4953.
- 15. Kraft, K. *et al.* (2001) Characterization of sequence determinants within the carboxylterminal domain of chemokine receptor CCR5 that regulate signaling and receptor internalization. J Biol Chem. 276: 34408-18.
- 16. Fukuoka, Y. *et al.* (2008) Generation of anaphylatoxins by human beta-tryptase from C3, C4, and C5. J Immunol. 180: 6307-16.
- 17. Bettoni, S. *et al.* (2017) Interaction between Multimeric von Willebrand Factor and Complement: A Fresh Look to the Pathophysiology of Microvascular Thrombosis. <u>J. Immunol.</u> 199 (3): 1021-40.
- 18. Huang, L. *et al.* (2005) Discovery of human antibodies against the C5aR target using phage display technology. <u>J Mol Recognit.18: 327-33.</u>
- 19. Tseng CW *et al.* (2015) Increased Susceptibility of Humanized NSG Mice to Panton-Valentine Leukocidin and *Staphylococcus aureus* Skin Infection. <u>PLoS Pathog. 11 (11):</u> e1005292.

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

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

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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/MCA1283F 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL:FITC (MCA929F)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

 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 'M365090:200529'

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