

Datasheet: MCA2455A488

Description:	MOUSE ANTI HUMAN C3a RECEPTOR: Alexa Fluor® 488
Specificity:	C3a RECEPTOR
Other names:	COMPLEMENT COMPONENT 3a RECEPTOR 1
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	hC3aRZ1
Isotype:	lgG1
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 <u>www.bio-rad-antibodies.com/protocols</u> .						
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry	•					
	Where this antibody han necessarily exclude its a guide only. It is recons system using appropriation	s use in such p mmended that	rocedure the use	es. Suggested worki r titrates the antibod	ng dilutions are given as		
Target Species	Human						
Product Form	Purified IgG conjugated to Alexa Fluor®488 - liquid						
Max Ex/Em	Fluorophore Alexa Fluor®488	Excitation Ma 495	x (nm)	Emission Max (nm) 519			
Preparation	Purified IgG prepared supernatant	by affinity chro	matogra	aphy on Protein A fro	om tissue culture		
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum /	Albumin					
Approx. Protein Concentrations	IgG concentration 0.05	5 mg/ml					

Immunogen	Recombinant human C3aR protein.					
External Database Links	UniProt: Q16581 Related reagents Entrez Gene: <u>719</u> C3AR1 Related reagents					
Synonyms	AZ3B, C3R1, HNFAG09					
RRID	AB_877451					
Fusion Partners	Cells from immunised BALB/c mice were fused with cells of the X63-Ag8.653 myeloma cell line.					
Specificity	Mouse anti Human C3a Receptor antibody, clone hC3aRZ1 recognizes the receptor for human complement component C3a (C3aR), a ~55 kDa cell surface protein of the rhodopsin family of G protein-coupled seven-transmembrane receptors. C3a is an anaphylatoxin, which is a potent proinflammatory mediator that possesses immunoregulatory properties. C3a regulates inflammatory functions by binding to the C3a receptor. C3aR is expressed on various tissues and leucocytes including basophils, neutrophils, mast cells, eosinophils and activated T lymphocytes. Expression levels of C3aR on human cells varies significantly between donors.					
Flow Cytometry	Use 10ul of the sugested working dilution to label 1×10^{6} cells in 100ul.					
References	 Werfel, T. <i>et al.</i> (2000) Activated human T lymphocytes express a functional C3a receptor. J Immunol. 165 (11): 6599-605. Kacani, L. <i>et al.</i> (2001) C5a and C5a(desArg) enhance the susceptibility of monocytederived macrophages to HIV infection. J Immunol. 166: 3410-5. Soruri, A. <i>et al.</i> (2003) IL-4 down-regulates anaphylatoxin receptors in monocytes and dendritic cells and impairs anaphylatoxin-induced migration <i>in vivo</i>. J Immunol. 170 (6): 3306-14. Raby, A.C. <i>et al.</i> (2009) Soluble TLR2 reduces inflammation without compromising bacterial clearance by disrupting TLR2 triggering. J Immunol. 183 (1): 506-17. Schreiber, A. <i>et al.</i> (2009) C5a receptor mediates neutrophil activation and ANCA-induced glomerulonephritis. J Am Soc Nephrol. 20: 289-98. Martel, C. <i>et al.</i> (2011) Requirements for membrane attack complex formation and anaphylatoxins binding to collagen-activated platelets. PLoS One. 6: e18812. Török K (2012) Human T cell derived, cell-bound complement iC3b is integrally involved in T cell activation. Immunol Lett. 143: 131-6. Patzelt, J. <i>et al.</i> (2015) Expression of anaphylatoxin receptors on platelets in patients with coronary heart disease. Atherosclerosis. 238 (2): 289-95. Hengartner, N.E. <i>et al.</i> (2015) Crucial Role of IL1beta and C3a in the <i>In Vitro</i>-Response of Multipotent Mesenchymal Stromal Cells to Inflammatory Mediators of Polytrauma. PLoS One. 10: e0116772. 					

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		
Acknowledgements	This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com		
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2455A488 10041		
Regulatory	For research purposes only		

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL: Alexa Fluor® 488 (MCA928A488)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South	Tel: +1 800 265 7376	Worldwide
America	Fax: +1 919 878 3751	
	Email: antibody_sales_us@bio-rad.com	

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M385395:210513'

Printed on 18 Jan 2024

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