

Datasheet: MCA2455A647T

BATCH NUMBER 153265

Description:	MOUSE ANTI HUMAN C3a RECEPTOR:Alexa Fluor® 647			
Specificity:	C3a RECEPTOR			
Other names:	COMPLEMENT COMPONENT 3a RECEPTOR 1			
Format:	ALEXA FLUOR® 647			
Product Type:	Monoclonal Antibody			
Clone:	hC3aRZ1			
Isotype:	lgG1			
Quantity:	25 TESTS/0.25ml			

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 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	Human				
Product Form	Purified IgG conjug	Purified IgG conjugated to Alexa Fluor® 647- liquid			
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)		
	Alexa Fluor®647	650	665		
Preparation	Purified IgG prepar supernatant	ed by affinity chromatog	raphy on Protein A f		
Suffer Solution	Phosphate buffered	d saline			
Preservative	0.09% Sodium Azio	de			
Stabilisers	1% Bovine Seru	ım Albumin			

Concentrations

Immunogen	Recombinant human C3aR protein.			
External Database Links	UniProt: Q16581 Related reagents Entrez Gene: 719 C3AR1 Related reagents			
Synonyms	AZ3B, C3R1, HNFAG09			
RRID	AB_1100497			
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 1x10 ⁶ cells in 100ul.			
References	 Werfel, T. et al. (2000) Activated human T lymphocytes express a functional C3a receptor. J Immunol. 165 (11): 6599-605. Soruri, A. et al. (2003) IL-4 down-regulates anaphylatoxin receptors in monocytes and dendritic cells and impairs anaphylatoxin-induced migration in vivo. J Immunol. 170 (6): 3306-14. Zwirner, J. et al. (1999) Evaluation of C3a receptor expression on human leucocytes by the use of novel monoclonal antibodies. Immunology. 97: 166-72. Kacani, L. et al. (2001) C5a and C5a(desArg) enhance the susceptibility of monocyte-derived macrophages to HIV infection. J Immunol. 166: 3410-5. Raby, A.C. et al. (2009) Soluble TLR2 reduces inflammation without compromising bacterial clearance by disrupting TLR2 triggering. J Immunol. 183: 506-17. Martel, C. et al. (2011) Requirements for membrane attack complex formation and anaphylatoxins binding to collagen-activated platelets. PLoS One. 6: e18812. Hengartner, N.E. et al. (2015) Crucial Role of IL1beta and C3a in the In Vitro-Response of Multipotent Mesenchymal Stromal Cells to Inflammatory Mediators of Polytrauma. PLoS One. 10: e0116772. Schreiber, A. et al. (2009) C5a receptor mediates neutrophil activation and ANCA-induced glomerulonephritis. J Am Soc Nephrol. 20: 289-98. 			

- 9. Török K (2012) Human T cell derived, cell-bound complement iC3b is integrally involved in T cell activation. Immunol Lett. 143: 131-6.
- 10. Patzelt, J. *et al.* (2015) Expression of anaphylatoxin receptors on platelets in patients with coronary heart disease. Atherosclerosis. 238 (2): 289-95.
- 11. Raby, A.C. *et al.* (2009) Soluble TLR2 reduces inflammation without compromising bacterial clearance by disrupting TLR2 triggering. <u>J Immunol. 183 (1): 506-17.</u>

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

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2455A647T

10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL: Alexa Fluor® 647 (MCA928A647)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South Tel: +1 800 265 7376

Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

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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 'M366932:200529'

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