

Datasheet: MCA2455GA

BATCH NUMBER 159380

Description:	MOUSE ANTI HUMAN C3a RECEPTOR
Specificity:	C3a RECEPTOR
Other names:	COMPLEMENT COMPONENT 3a RECEPTOR 1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	hC3aRZ1
Isotype:	lgG1
Quantity:	0.1 mg

Product Details

Stabilisers

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-</u> rad-antibodies.com/protocols.					
	-						
	Yes No Not Determined Suggested Dilution						
	Flow Cytometry				1/10 - 1/20		
	Immunohistology - Frozen						
	Immunohistology - Paraffin						
	ELISA						
	Immunoprecipitation			-			
	Western Blotting						
Target Species	system using appropriate	e negative	e/positive	controls.			
Target Species	Human						
Product Form	Purified IgG - liquid						
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant						
Buffer Solution	Phosphate buffered salin	е					
Preservative Stabilisers	0.09% Sodium Azide						

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 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_877450
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.

	 8. Patzelt, J. <i>et al.</i> (2015) Expression of anaphylatoxin recepto with coronary heart disease. <u>Atherosclerosis. 238 (2): 289-95.</u> 9. Hengartner, N.E. <i>et al.</i> (2015) Crucial Role of IL1beta and C of Multipotent Mesenchymal Stromal Cells to Inflammatory Mer <u>One. 10: e0116772.</u> 	3a in the <i>In Vitro</i> -Response	
Storage	This product is shipped at ambient temperature. It is recommended to aliquot ar -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 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: https://www.bio-rad-antibodies.com/SDS/MCA2455GA 10040		
Regulatory	For research purposes only		

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77)	HRP						
Rabbit Anti Mouse IgG (STAR12)	RPE						
Goat Anti Mouse IgG IgA IgM (STAR87) <u>Alk. Phos., HRP</u>							
Goat Anti Mouse IgG (STAR76)	Goat Anti Mouse IgG (STAR76) RPE						
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP						
Rabbit Anti Mouse IgG (STAR13)	HRP						
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>						
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,						
	DyLight®650, DyLight®680, DyLight®80	<u>0</u> ,					
	FITC, HRP						
Goat Anti Mouse IgG (STAR70) <u>FITC</u>							
Recommended Negative Controls							
MOUSE IgG1 NEGATIVE CONTROL (MCA928)							
North & South Tel: +1 800 265 7376 Worldw		Tel: +49 (0) 89 8090 95 21					
America Fax: +1 919 878 3751 Email: antibody sales us@bio-rad.com	Fax: +44 (0)1865 852 739 Email: antibody sales uk@bio-rad.com	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 'M388023:210804'							

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