

## Datasheet: MCA2457PET

RAT ANTI MOUSE CD88:RPE		
0000		
CD00		
C5aR		
RPE		
Monoclonal Antibody		
20/70		
lgG2b		
25 TESTS		

## **Product Details**

RRID	AB_2067284						
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 - 1/10		
					e this does not necessarily		
	exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is						
	recommended that t negative/positive co	tem using appropriate					
Target Species	Mouse						
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - Iyophilized						
Reconstitution	Reconstitute in 0.25 ml disilled water						
Max Ex/Em	Fluorophore	Excitation Max (n	nm) Emis	sion Max (nm)			
	RPE 488nm laser	496		578			
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered	saline					
Preservative	0.09% Sodium Azid	e					
Stabilisers	1% Bovine Serur	n Albumin					
	5% Sucrose						
Immunogen	RBL-2H3 transfected cells expressing murine C5aR.						
External Database	UniProt:						

Links	P30993 Related reagents
	Entrez Gene:
	12273 C5ar1 Related reagents
Synonyms	C5ar, C5r1
Fusion Partners	Cells from immunised Lou/c were fused with cells of the X63-Ag8.653 myeloma cell line.
Specificity	<ul> <li>Rat anti Mouse CD88 antibody, clone 2070 recognizes murine CD88, also known as C5a anaphylatoxin chemotactic receptor 1 (C5aR1), a member of the <u>G-protein coupled receptor</u> 1 family. CD88 is a ~45 kDa multi pass membrane protein and functions as a receptor for the complement component C5a, a potent proinflammatory molecule and a chemoattractant for neutrophils to sites of infection. In mouse, CD88 is expressed on granulocytes, monocytes and macrophages but not on resting or stimulated lymphocytes.</li> <li>Clone 20/70 has been reported to block the binding of the C5a to murine CD88, (Soruri <i>et al.</i> 2003).</li> </ul>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
	The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR ( <u>BUF041A/B</u> ).
References	<ol> <li>Soruri, A. <i>et al.</i> (2003) Characterization of C5aR expression on murine myeloid and lymphoid cells by the use of a novel monoclonal antibody. <u>Immunol Lett. 88 (1): 47-52.</u></li> <li>Godau, J. <i>et al.</i> (2004) C5a initiates the inflammatory cascade in immune complex peritonitis. J. <u>Immunol. 173 (5): 3437-45.</u></li> <li>Baelder, R. <i>et al.</i> (2005) Pharmacological targeting of anaphylatoxin receptors during the effector phase of allergic asthma suppresses airway hyperresponsiveness and airway inflammation. J. <u>Immunol. 174 (2): 783-9.</u></li> <li>Rittirsch, D. <i>et al.</i> (2008) Functional roles for C5a receptors in sepsis. <u>Nat Med. 14: 551-7.</u></li> <li>Shushakova, N. (2002) C5a anaphylatoxin is a major regulator of activating versus inhibitory FcgammaRs in immune complex-induced lung disease. J Clin Invest. 110: 1823-30.</li> <li>Wang, R. <i>et al.</i> (2013) Disruption of the Complement Anaphylatoxin Receptor C5L2 Exacerbates Inflammation in Allergic Contact Dermatitis. J Immunol. 191: 4001-9.</li> <li>Karsten, C.M. <i>et al.</i> (2016) Effects of C-xylopyranoside derivative on epithelial regeneration in an in vitro 3D oral mucosa model. <u>Biosci Biotechnol Biochem. 11: 1-12.</u></li> <li>Wang R <i>et al.</i> (2016) C5L2, the Second C5a Anaphylatoxin Receptor Suppresses Lipopolysaccharide-induced Acute Lung Injury. <u>Am J Respir Cell Mol Biol. Jun 10. [Epub ahead of print]</u></li> <li>Ender F <i>et al.</i> (2017) Differential regulation of C5a receptor 1 in innate immune cells during the allergic asthma effector phase. <u>PLoS One. 12 (2): e0172446.</u></li> <li>Fusakio, M.E. <i>et al.</i> (2011) C5a regulates NKT and NK cell functions in sepsis. J Immunol. 187 (11): 5805-12.</li> </ol>
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

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