Datasheet: MCA2059 BATCH NUMBER 154487

Description: MOUSE ANTI HUMAN CD	
Specificity:	CD88
Other names:	C5aR
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	P12/1
lsotype:	lgG2a
Quantity:	0.2 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		•	•		
	information. For general protocol red					
	rad-antibodies.com/protocols.					
	Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry	No	Not Determined	1/50 - 1/100		
	Immunohistology - Frozen					
	Immunohistology - Paraffin					
	ELISA		•			
	Immunoprecipitation					
	Western Blotting					
	Where this antibody has not been tested for use in a particular technique this does not					
Target Species	system using appropriate negative/p Human					
Species Cross Reactivity	Reacts with: Rhesus Monkey N.B. Antibody reactivity and working reactivity is derived from testing with personal communications from the o	nin our la	boratories, peer-revie	wed publications or		
	further information.					
Product Form	Purified IgG - liquid					

	supernatant	
Buffer Solution	Phosphate buffered saline	
Preservative Stabilisers	0.09% Sodium Azide	
Carrier Free	Yes	
Approx. Protein Concentrations	IgG concentration 1 mg/ml	
Immunogen	C5aR - peptide: Met ₁ - Asn ₃₁	
External Database Links	UniProt: <u>P21730</u> <u>Related reagents</u> Entrez Gene: <u>728</u> C5AR1 <u>Related reagents</u>	
Synonyms	C5AR, C5R1	
RRID	AB_566906	
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with ce myeloma cell line.	Ils of the mouse X63 - Ag8
Specificity	Mouse anti Human CD88 antibody, clone P12/1 recognizes also known as CD88 or C5a anaphylatoxin chemotactic recep expressed on cells of the myeloid lineage.	
	When C5aR is preincubated with C5a, Mouse anti Human CD does not bind to the receptor, as the binding site of P12/1 is lo region (<u>Werfel <i>et al.</i> 1996</u> and <u>Weinman <i>et al.</i> 2003</u>)	-
Flow Cytometry	Use 10ul of the suggested working dilution to label 5 x 10^5 cel	ls in 100ul.
References	 Werfel, T. <i>et al.</i> (1996) CD88 antibodies specifically bind to and CD14+ cells and react with a desmosomal antigen in hum <u>1729-35.</u> Opperman, M. <i>et al.</i> (1995) Antibodies from the myeloid par receptor and anatagonize C5a biological activity. In: Schlossm Typing V. OUP: 955-6. Pollok-Kopp B <i>et al.</i> (2007) Dynamics of protein kinase C-m the complement C5a receptor on serine 334. J Biol Chem. 282 4. Werfel, T. <i>et al.</i> (1995) Binding of anti-C5a receptor (C5aR) clinically normal human skin. In: Schlossman, S.F. (ed.) Leuco 5. Oppermann, M. (1995) Cluster report: (C5a receptor). In: Sch 	nan skin. <u>J Immunol. 157:</u> nel that react with the C5a nan, S.F. (ed.) Leucocyte nediated phosphorylation of <u>2 (7): 4345-53.</u> antibodies to cells of pcyte Typing V. OUP: 957-9.

	 Leucocyte Typing V. OUP: 953-4. 6. Hüttenrauch, F. <i>et al.</i> (2005) G protein-coupled receptor kinases promote phosphorylation and beta-arrestin-mediated internalization of CCR5 homo- and heterooligomers. J Biol Chem. 280: 37503-15. 7. Huber-Lang, M. <i>et al.</i> (2005) Changes in the novel orphan, C5a receptor (C5L2), during experimental sepsis and sepsis in humans. J Immunol. 174 (2): 1104-10. 8. Morris, A.C. <i>et al.</i> (2011) C5a-mediated neutrophil dysfunction is RhoA-dependent and predicts infection in critically ill patients. Biood. 117: 5178-88. 9. Visser T <i>et al.</i> (2012) Homology in systemic neutrophil response induced by human experimental endotoxemia and by trauma. Shock. 37 (2): 145-51. 10. Nitta, H. <i>et al.</i> (2013) Enhancement of human cancer cell motility and invasiveness by anaphylatoxin C5a via aberrantly expressed C5a receptor (CD88). Clin Cancer Res. 19 (8): 2004-13. 11. Patzelt, J. <i>et al.</i> (2015) Expression of anaphylatoxin receptors on platelets in patients with coronary heart disease. Atherosclerosis. 238 (2): 289-95. 12. Unnewehr H <i>et al.</i> (2011) Isolated blunt chest injury leads to transient activation of circulating neutrophils. Eur J Trauma Emerg Surg. 37 (2): 177-84. 14. Presicce, P. <i>et al.</i> (2015) Neutrophil recruitment and activation in decidua with intra-amniotic IL-1beta in the preterm rhesus macaque. Biol Reprod. 92 (2): 56. 15. Zannetti, C. <i>et al.</i> (2003) Up-regulation of C5a receptor expression and function on human monocyte derived dendritic cells by prostaglandin E2. Immunol. 147 (1): 356-67. 16. Werfel, T. <i>et al.</i> (2020) Staphylococcal Panton–Valentine Leucocidin and Gamma Haemolysin Target and Lyse Mature Bone Marrow Leucocytes. Toxins. 12 (11): 725.
Further Reading	 Oppermann, M. <i>et al.</i> (1993) Probing the human receptor for C5a anaphylatoxin with site-directed antibodies. Identification of a potential ligand binding site on the NH2-terminal domain. J Immunol. 151 (7): 3785-94. Oppermann, M. & Götze, O. (1994) Plasma clearance of the human C5a anaphylatoxin by binding to leucocyte C5a receptors. Immunology. 82 (4): 516-21.
Storage	Store at +4°C or at -20°C if preferred.
	This product should be stored undiluted.
	Storage in frost-free freezers is not recommended. 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	Material Safety Datasheet documentation #10040 available at:

Information	https://www.bio-rad-antibodies.com/SDS/MCA2059 10040		
Regulatory	For research purposes only		

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	RPE		
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>			
Goat Anti Mouse IgG (STAR76)	RPE		
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>		
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,		
	<u>DyLight®650</u> , <u>DyLight®680</u> , <u>DyLight®800</u> ,		
	FITC, HRP		
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>		
Goat Anti Mouse IgG (STAR77)	HRP		
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP		
Rabbit Anti Mouse IgG (STAR13)	HRP		
Recommended Negative Controls			

MOUSE IgG2a NEGATIVE CONTROL (MCA929)

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
	Email: antibody_sales_us@bio-ra	ad.com	Email: antibody_sales_uk@bio-r	ad.com	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 'M366113:200529'

Printed on 21 Feb 2024

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