

Datasheet: MCA2457EL

Description:	RAT ANTI MOUSE CD88:Low Endotoxin
Specificity:	CD88
Other names:	C5aR
Format:	Low Endotoxin
Product Type:	Monoclonal Antibody
Clone:	20/70
Isotype:	IgG2b
Quantity:	0.5 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. 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	■			1/50 - 1/200
Immunohistology - Frozen		■		
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation			■	
Western Blotting			■	
Functional Assays	■			

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	Mouse
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Carrier Free	Yes
Endotoxin Level	<0.01 EU/ug
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen	RBL-2H3 transfected cells expressing murine C5aR.
External Database Links	<p>UniProt: P30993 Related reagents</p> <p>Entrez Gene: 12273 C5ar1 Related reagents</p>
Synonyms	C5ar, C5r1
Fusion Partners	Cells from immunised Lou/c were fused with cells of the X63-Ag8.653 myeloma cell line.
Specificity	<p>Rat anti Mouse CD88 antibody, clone 2070 recognizes murine CD88, also known as C5a anaphylatoxin chemotactic receptor 1 (C5aR1), a member of the G-protein coupled receptor 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.</p> <p>Clone 20/70 has been reported to block the binding of the C5a to murine CD88, (Soruri <i>et al.</i> 2003).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. 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. Immunol Lett. 88 (1): 47-52. 2. Godau, J. <i>et al.</i> (2004) C5a initiates the inflammatory cascade in immune complex peritonitis. J Immunol. 173 (5): 3437-45. 3. 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 Immunol. 174 (2): 783-9. 4. Rittirsch, D. <i>et al.</i> (2008) Functional roles for C5a receptors in sepsis. Nat Med. 14: 551-7. 5. Shushakova, N. (2002) C5a anaphylatoxin is a major regulator of activating versus inhibitory FcγR in immune complex-induced lung disease. J Clin Invest. 110: 1823-30. 6. 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. 7. Karsten, C.M. <i>et al.</i> (2015) Monitoring and cell-specific deletion of C5aR1 using a novel floxed GFP-C5aR1 reporter knock-in mouse. J Immunol. 194 (4): 1841-55. 8. Uenoyama, A. <i>et al.</i> (2016) Effects of C-xylopyranoside derivative on epithelial regeneration in an in vitro 3D oral mucosa model. Biosci Biotechnol Biochem. 11: 1-12. 9. Wang R <i>et al.</i> (2016) C5L2, the Second C5a Anaphylatoxin Receptor Suppresses Lipopolysaccharide-induced Acute Lung Injury. Am J Respir Cell Mol Biol. Jun 10. [Epub ahead of print] 10. Ender F <i>et al.</i> (2017) Differential regulation of C5a receptor 1 in innate immune cells during the allergic asthma effector phase. PLoS One. 12 (2): e0172446. 11. Fusakio, M.E. <i>et al.</i> (2011) C5a regulates NKT and NK cell functions in sepsis. J Immunol. 187 (11): 5805-12.
Storage	<p>Store at -20°C only.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before</p>

use.

Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10162 available at: 10162: https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®649 , DyLight®800
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin

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