

## Monoclonal Antibody to CD88 / C5R1 - PE

<b>Alternate names:</b>	C5AR1, C5a anaphylatoxin chemotactic receptor, C5a-R, C5aR, Complement Component 5a Receptor 1
<b>Catalog No.:</b>	AM01270RP-N
<b>Quantity:</b>	100 Tests
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	CD88 is a 45kD G-protein coupled cell surface receptor, which is otherwise known as C5aR. The CD88 molecule functions as a receptor for the complement component C5a, which is 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.
<b>Uniprot ID:</b>	<a href="#">P30993</a>
<b>NCBI:</b>	<a href="#">10090</a>
<b>Host / Isotype:</b>	Rat / IgG2b
<b>Clone:</b>	20/70
<b>Immunogen:</b>	RBL-2H3 transfected cells expressing murine C5aR
<b>Format:</b>	<b>State:</b> Lyophilized purified IgG fraction. <b>Purification:</b> Affinity Chromatography on Protein G. <b>Buffer System:</b> PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. <b>Label:</b> PE – R. Phycoerythrin (RPE) <b>Reconstitution:</b> Restore with 1 ml distilled water.
<b>Applications:</b>	<b>Flow Cytometry:</b> Use 10 µl of neat-1/10 diluted antibody to label 10e6 cells in 100 µl. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises CD88. Clone 20/70 has been reported to block the binding of the C5a to murine CD88. We recommend the use of AM01270LE-N for this purpose. <b>Species:</b> Mouse. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted Prior to and Following Reconstitution at 2-8°C. <b>DO NOT FREEZE!</b> This product is photosensitive and should be protected from light. Shelf life: one year from despatch.

- General Readings:**
1. Soruri A, Kim S, Kiafard Z, Zwirner J. Characterization of C5aR expression on murine myeloid and lymphoid cells by the use of a novel monoclonal antibody. *Immunol Lett.* 2003 Jul 3;88(1):47-52. PubMed PMID: 12853161.
  2. Godau J, Heller T, Hawlisch H, Trappe M, Howells E, Best J, et al. C5a initiates the inflammatory cascade in immune complex peritonitis. *J Immunol.* 2004 Sep 1;173(5):3437-45. PubMed PMID: 15322209.
  3. Baelder R, Fuchs B, Bautsch W, Zwirner J, Köhl J, Hoymann HG, et al. Pharmacological targeting of anaphylatoxin receptors during the effector phase of allergic asthma suppresses airway hyperresponsiveness and airway inflammation. *J Immunol.* 2005 Jan 15;174(2):783-9. PubMed PMID: 15634899.

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**For research and in vitro use only. Not for diagnostic or therapeutic work.**

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