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**Anti-Mouse C5a Receptor (CD88)  
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
<b>CL7588AP</b>	Purified	250ug	1.0 mg/ml	CLCR2B00
<b>CL7588B</b>	Biotin	100ug	0.1 mg/ml	CLCR2B15
<b>CL7588F</b>	FITC	100ug	0.1 mg/ml	CLCR2B01
<b>CL7588LE</b>	LE	500ug	1.0 mg/ml	CLCR2B00
<b>CL7588NA</b>	Purified	1.0mg	1.0mg/ml	CLCR2B00
<b>CL7588PE</b>	PE	50ug	0.1 mg/ml	CLCR2B04

Isotype: Rat IgG<sub>2b</sub>

**DESCRIPTION:**

This monoclonal antibody detects the mouse C5a receptor (also known as CD88) found on peritoneal monocytes/macrophages, alveolar macrophages, neutrophils and peripheral blood myeloid cells. This clone (20/70) abrogated neutrophil recruitment in the mouse peritoneum *in vivo*, blocked binding of FITC rC5a to murine C5aR and inhibited migration of transfectants (C5aR-RBL-2H3) in response to rC5a. Metal-induced apoptosis in transfected NIH3T3 cells was reduced with this antibody. Ligands for C5aR include the RP S19 dimer and C5a/C5a des Arg. Mouse C5a receptor has seven transmembrane segments and shares ~65% homology with human.

Applications for this clone include flow cytometry, immunofluorescence and receptor blockage *in vitro* and *in vivo*. This antibody is not suitable for use in immunohistochemistry.

**PRESENTATION:**

**Purified:** Purified IgG buffered in PBS and 0.02% NaN<sub>3</sub>. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.

**Biotin, FITC and PE:** Biotin/FITC/PE conjugated IgG buffered in PBS, 0.02% NaN<sub>3</sub> and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

**LE:** No preservative added. filtered through 0.2µm filter.

**No Azide:** Purified Ig buffered in PBS, no preservative, 0.2µm sterile filtered.

**STORAGE/STABILITY:**

For all formats, store at 4°C. DO NOT FREEZE **PE** conjugates. For long term storage (**Purified, Biotin, FITC, LE** and **No Azide**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

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## **SPECIFICATIONS:**

Clone: 20/70

### Hybridoma Production:

Immunization:

Immunogen: RBL-2H3 (rat basophilic leukemia) transfected cells expressing murine C5aR on the cell surface

Donor: Lou/c rat spleen cells

Fusion Partner: Myeloma X63-Ag8.653

Specificity: Mouse C5a Receptor (CD88)

Ig Class: Rat IgG<sub>2b</sub>

Format: FITC conjugated Ig buffered in PBS, 0.02% NaN<sub>3</sub> and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

## **TEST RESULTS:**

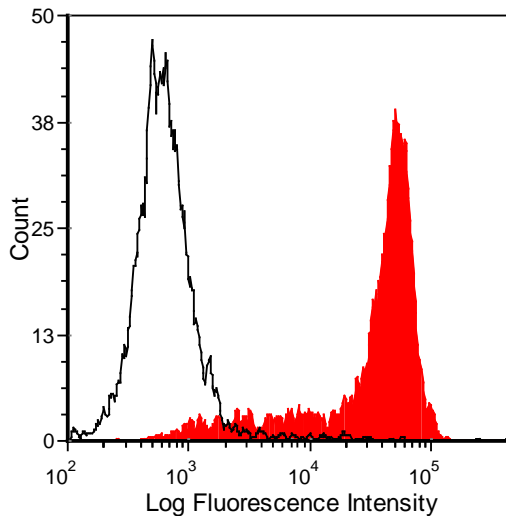
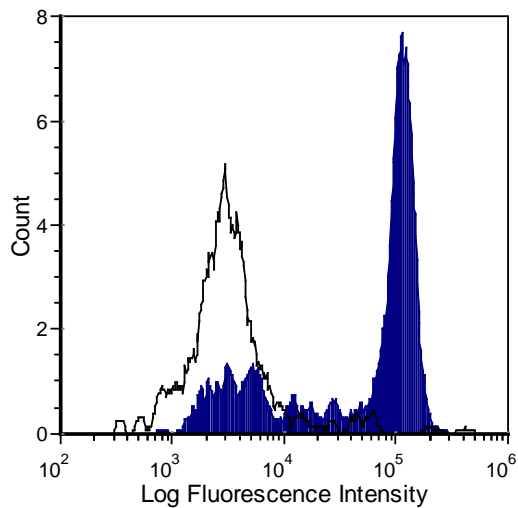
### Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: C57BL/6

Cell Source: Bone Marrow

Cell Concentration: 1x10<sup>6</sup> cells per test

Antibody Concentration Used: 1 µg/10<sup>6</sup> cells



Balb/c peritoneal macrophages (left) or bone marrow (Gr-1 gate) (right) were stained with anti-C5a receptor (CD88) (clone: 20/70) (filled histogram) or mouse IgG<sub>2b</sub> isotype control (open histogram).

**N.B. Appropriate control samples should always be included in any labeling studies.**

**\* For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

## **REFERENCES:**

1. Soruri, A., *et al.* Characterization of C5aR expression on murine myeloid and lymphoid cells by the use of a novel monoclonal antibody. *Immunology Letters*, **88**:47-52, 2003.
2. Shushakova, N., *et al.* C5a anaphylatoxin is a major regulator of activating versus inhibitory FcγRs in immune complex-induced lung disease. *J. Clin. Invest.* **110**:1823-1830, 2002.
3. Godau, J., *et al.* C5a initiates the inflammatory cascade in immune complex peritonitis. *J. of Immunol.* **173**:3437-3445, 2004.
4. Nishiura, H., *et al.* S19 ribosomal protein dimer augments metal-induced apoptosis in a mouse fibroblastic cell line by ligation of the C5a receptor. *J. of Cell. Biochem.* **94**:540-553, 2005.
5. Lee, H., *et al.* Human C5aR knock-in mice facilitate the production and assessment of anti-inflammatory monoclonal antibodies. *Nature Biotechnology*. 24(10):1279-84, 2006.

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