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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

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for the Science of Tomorrow™

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

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

Isotype: Rat IgG_{2b}

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% NaN₃. (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% NaN₃ 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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In CANADA: Toll Free: 1-800-268-5058

4410 Paletta Court, Burlington, ON L7L 5R2 ph: (289) 288-0001, fax: (289) 288-0020
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In the USA: Toll Free: 1-800-721-1644

1210 Turrentine Street, Burlington, NC 27215 ph: (336) 513-5135, fax: (336) 513-5138
e-mail: service@cedarlanelabs.com

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_{2b}

Format: FITC conjugated Ig buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

TEST RESULTS:

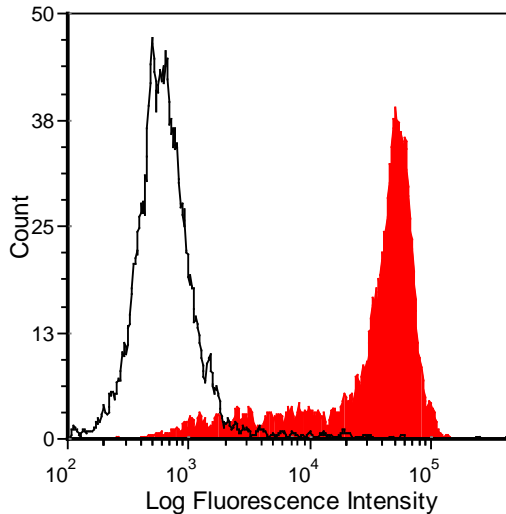
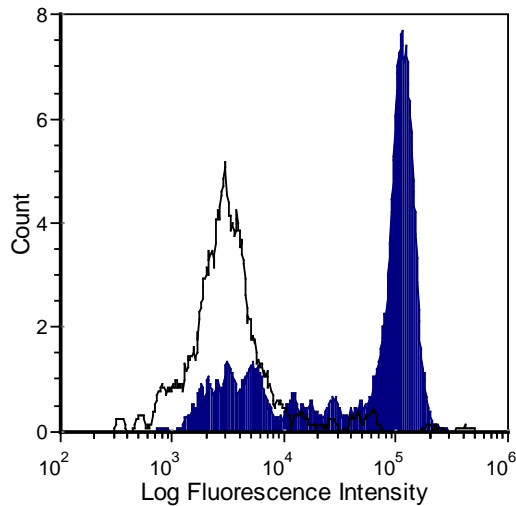
Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: C57BL/6

Cell Source: Bone Marrow

Cell Concentration: 1x10⁶ cells per test

Antibody Concentration Used: 1 µg/10⁶ 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_{2b} 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:

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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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