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for the Science of Tomorrow™

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

Catalogue#	Format	Size	Concentration	Isotype Control
CL7688AP	Purified	250µg	1.0 mg/ml	CLCR2A00
CL7688B	Biotin	100µg	0.1 mg/ml	CLCR2A15
CL7688F	FITC	100µg	0.1 mg/ml	CLCR2A01
CL7688PE	PE	50µg	0.1 mg/ml	CLCR2A04
CL7688AF4	Alexa Fluor [®] 488	100 µg	0.1 mg/ml	N/A
CL7688AF6	Alexa Fluor [®] 647	100 µg	0.1 mg/ml	N/A

Alexa Fluor[®] is a registered trademark of Life Technologies Corporation.

Isotype: Rat IgG_{2a}

DESCRIPTION:

This monoclonal antibody detects an epitope on the N terminus (aa 1-15) of the human C5a receptor (also known as CD88) found on human myeloid cells including granulocytes and monocytes/macrophages. It does not bind to tubular epithelial cells *in situ* under normal or inflammatory conditions. C5aR binds to C5a, a 74 aa peptide cleaved from complement protein C5. C5a receptor has seven transmembrane segments and is a member of the rhodopsin subfamily of G protein coupled receptors.

Applications for this clone include flow cytometry, immunohistochemistry (frozen sections) and receptor blockage assays (unpublished results).

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, PE, AF488 and AF647: Biotin/FITC/PE/AF488 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.

STORAGE/STABILITY:

Store at 4°C. DO NOT FREEZE **PE, AF488 and AF647** conjugates. For long term storage (**Purified, Biotin and FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

Continued Overleaf.....

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SPECIFICATIONS:

Clone: 8D6

Hybridoma Production:

Immunization:

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

Donor: Lou/c rat spleen cells

Specificity: Human C5a Receptor (CD88)

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Cell Source: Human Peripheral Blood

Cell Concentration: 1×10^6 cells per test

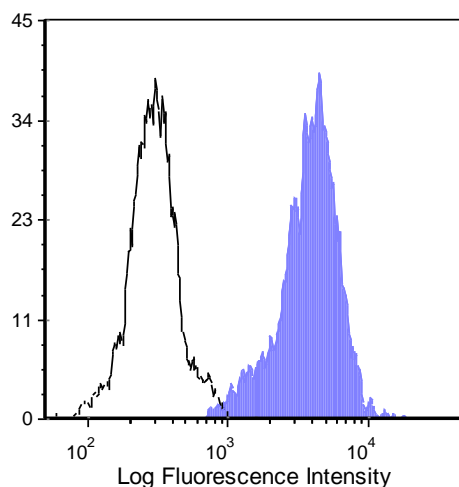
Antibody Concentration Used: $1.0 \mu\text{g}/10^6$ cells

Cell Source

Human Granulocytes

Percentage of cells stained above control:

75 %



Human granulocytes were stained with anti-C5a receptor (CD88) (clone: 8D6) (filled histogram) or rat IgG2a 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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