

Technically
Speaking

CEDARLANE®
www.cedarlanelabs.com



Conveniently Delivering You Today's Innovations
for the Science of Tomorrow™

**Anti-Human CD64
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL7664AP	Purified	250 µg	1.0 mg/ml	CLCMG100
CL7664LE	Low Endotoxin	500 µg	1.0 mg/ml	CLCMG100
CL7664APC	APC	100 µg	0.1 mg/ml	CLCMG105
CL7664B	Biotin	100 µg	0.1 mg/ml	CLCMG115
CL7664F	FITC	100 µg	0.1 mg/ml	CLCMG101
CL7664PE	PE	50 µg	0.1 mg/ml	CLCMG104
CL7664PC7	PE-Cy7	100 µg	0.1 mg/ml	N/A
CL7664AF4	Alexa Fluor®488	100 µg	0.1 mg/ml	N/A

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

Isotype: Mouse IgG1, κ

DESCRIPTION:

Fc-gamma receptor 1 (CD64) is an IgG receptor expressed by monocytes and myeloid cell lines. It is a marker of inflammation. It is involved in cancer and many chronic diseases (arthritis, multiple sclerosis, diabetic ulcers), but also in antibody-dependent cell-mediated cytotoxicity (ADCC), sepsis, auto-immune disorders and periodic fever, aphthous stomatitis, pharyngitis, and cervical adenitis (PFAPA) syndrome. The 10.1 antibody clone blocks the Ig binding to the FcR1 receptor.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.

APC, Biotin, FITC, PE, PE-Cy7 and AF488: APC/Biotin/FITC/PE/PE-Cy7/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.

Low Endotoxin: Purified IgG buffered in PBS, no preservative, 0.2µm sterile filtered (Purified via Protein G Chromatography). Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE APC, PE, PE-Cy7 and AF488 conjugates. For long term storage (Purified, LE, Biotin and FITC), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

Visit our website for your local distributor.

CEDARLANE®



www.cedarlanelabs.com

An ISO 9001:2000 and ISO 13485:2003
registered company.

In CANADA: Toll Free: 1-800-268-5058

4410 Paletta Court, Burlington, ON L7L 5R2 ph: (289) 288-0001, fax: (289) 288-0020
e-mail: general@cedarlanelabs.com

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

APPLICATIONS:

This antibody is suitable for use in Flow Cytometry, Immunohistochemistry with frozen sections, Immunofluorescence, Immunoprecipitation, and Blocking/Neutralizing studies.

SPECIFICATIONS:

Clone: 10.1

Hybridoma Production:

Immunization:

Immunogen: Rheumatoid synovial fluid cells and fibronectin purified human monocytes.

Donor: BALB/c mice

Fusion Partner: Mouse myeloma cell line Sp2/0-Ag14

Specificity: This antibody is specific for human CD64.

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Cell Concentration: 1×10^6 cells per tests

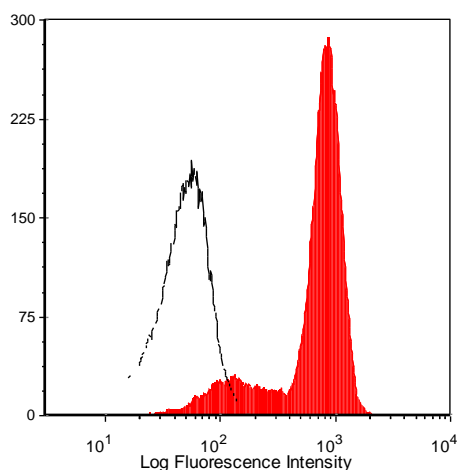
Antibody Concentration Used: $0.5 \mu\text{g}/10^6$ cells

Cell Source:

Human Peripheral Blood Monocytes

Percentage of cells stained above control:

82.5 %



Human peripheral blood monocytes were stained with anti-CD64 (clone: 10.1) (filled histogram) or Mouse IgG1 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. Schleinitz et al. 2008. Arthritis Rheum. 58(10):3216-23.
2. Blom AB, et al. 2003. Arthritis Rheum. 48(4):1002-14.
3. Hober D, et al. 2002. J. Gen. Virol. 83:2169-76.
4. Carter DL, et al. 1999. Cytometry. 37(1):41-50.
5. Jayaram et al. 1989. Clin Exp Immunol. 75(3):414-20.
6. Dougherty et al. 1987. Eur J Immunol. 17(10):1453-9.

FOR RESEARCH USE ONLY

® is a registered trademark of Cedarlane