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Anti-Mouse MAC-3 Monoclonal Antibody

Catalogue#	Format	Size	Concentration	Isotype Control
CL8943AP/-3	Purified	100 µg/300 µg	1.0 mg/ml	CLCR100
CL8943B/-3	Biotin	100 µg/300 µg	0.1 mg/ml	CLCR115
CL8943F/-3	FITC	100 µg/300 µg	0.1 mg/ml	CLCR101
CL8943PE/-3	PE	50 µg/300 µg	0.1 mg/ml	CLCR104
CL8943AF4	Alexa Fluor®488	100 µg	0.1 mg/ml	N/A

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

Isotype: Rat IgG_{1k}

DESCRIPTION:

Cedarlane's anti-mouse MAC-3 monoclonal antibody recognizes the MAC-3 antigen which is found on macrophages and some nonlymphoid tissues, but not on lymphocytes. It is a glycoprotein showing a broad band in SDS-PAGE, and is synthesized by macrophages (average molecular weight 92-110,000 daltons, depending on the origin of macrophages).

It reacts with peritoneal exudate macrophages where the exudate is provoked by thioglycollate, protease peptone, L. monocytogenes, lipopolysaccharide and concanavalin A. It does not react with thymocytes, spleen, lymph node or bone marrow cells in immunofluorescent flow cytometry.

MAC-3 is a general marker for macrophages and can be used to distinguish these cells from lymphocytes. Its Mw (110,000 Da) and cell distribution differentiate MAC-3 from MAC-2 and MAC-1 antigens.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN_3. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.
Biotin, FITC, PE and AF488: Biotin/FITC/PE/AF488 conjugated IgG buffered in PBS, 0.02% NaN_3 and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE **PE and AF488** conjugates. For long term storage (**Purified, Biotin, FITC, No Azide**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

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

Clone: M3/84

Hybridoma Production:

Immunization: Immunogen: Immunoadsorbent purified mouse macrophage glycoprotein fraction.
Donor: Rat spleen

Fusion Partner: NS-1

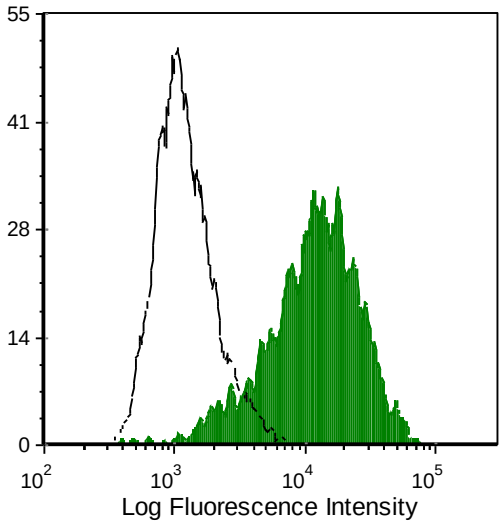
Specificity: Mouse MAC-3

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: C57BL/6
Cell Concentration: 1 x 10^6 cells per tests
Antibody Concentration Used: 1.0 µg/10^6 cells

Cell Source	Percentage of cells stained above control:
Thioglycollate-elicited peritoneal exudates	69.4%



Thioglycolate-elicited C57BL/6 mouse peritoneal macrophages were stained with anti-Mac-3 (clone: M3/84) (filled histogram) or rat IgG1 isotype control (open histogram).

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

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

REFERENCES:

1. Springer, T.A. (1981). Monoclonal Antibody Analysis of Complex Biological Systems. *J. Bio/. Chem*. 256:3833-3839.
2. Knisley, K.A. and Weitlauf, H.M. (1993). Compartmentalized reactivity of M3/38 (anti-Mac-2) and M3/84 (anti-Mac-3) in the uterus of pregnant mice. *Journal of Reproduction and Fertility*. 97:521-527
3. Ho, M.K. and Springer, T.A. (1983). Tissue distribution, Structural Characterization, and Biosynthesis of Mac-3, a Macrophage Surface Glycoprotein Exhibiting Molecular Weight Heterogeneity. *Journal of Biological Chemistry*. 258:636-642.

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