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TECHNICALLY *Speaking*

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

Biotin Anti-Mouse Macrophage (F4/80) Monoclonal Antibody

CL8940B
CL8940B-3
LOT: 0702

DESCRIPTION:

Cedarlane's anti-mouse F4/80 monoclonal antibody reacts with the mouse macrophage F4/80 antigen, which is a 160 kD plasma membrane component on mouse mononuclear phagocytes. The F4/80 antigen is found on most macrophages and on macrophage precursors from M-CFC onward. Expression of this antigen is increased upon maturation. F4/80 is found in low levels on activated macrophages and eosinophils. Dendritic leukocytes may be negative or express F4/80 in low levels.

Applications include flow cytometry^{7,8,9,11}. This clone is also reported to work in immunohistochemistry, both frozen and paraffin sections^{5,12}, and ELISA¹¹.

PRESENTATION:

100 µg (CL8940B) or 300µg (CL8940B-3) Biotin conjugated Ig buffered in PBS, 0.09% sodium azide (NaN₃) and 1% BSA.

STORAGE/STABILITY:

Store at 4°C. For long term storage, aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles. Check label for expiry date.

SPECIFICATIONS:

Clone: C1:A3-1

Specificity: Mouse Macrophage

Ig Class: Rat IgG_{2b}

Antibody Concentration: 0.1 mg/ml

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For more information or to place an order please contact...

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LABORATORIES LIMITED



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FLOW CYTOMETRY ANALYSIS:

Method:

1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte[®]-M cell separation medium (CL5030).
2. Wash 2 times.
3. Resuspend the cells to a concentration of 2×10^7 cells/ml in media A. Add 50 μ l of this suspension to each tube (each tube will then contain 1×10^6 cells, representing 1 test).
4. To each tube, add $\sim 0.5 \mu\text{g}^*$ of **CL8940B** or **CL8940B-3** per 10^6 cells.
5. Vortex the tubes to ensure thorough mixing of antibody and cells.
6. Incubate the tubes for 30 minutes at 4°C.
7. Wash 2 times at 4°C.
8. Add 100 μ l of detecting reagent **CLCSA1004** (Streptavidin-PE) at a 1:50 dilution.
9. Incubate tubes at 4°C for 30 - 60 minutes (It is recommended that tubes are protected from light since most fluorochromes are light sensitive).
10. Wash 2 times at 4°C.
11. Resuspend the cell pellet in 50 μ l ice cold media B.
12. Transfer to suitable tubes for flow cytometric analysis containing 15 μ l of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA.

Media:

- A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 μ l of 2M sodium azide in 100 mls).
- B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 μ l of 2M sodium azide in 100 mls).

Results:

Tissue Distribution by Flow Cytometry Analysis:

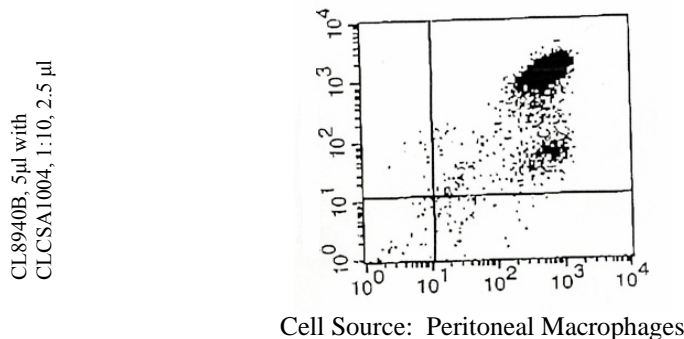
(Representative Histogram)

Mouse Strain: BALB/c

Cell Concentration: 1×10^6 cells per test

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

Isotypic Control: Biotin Rat IgG_{2b} (CLCR2B15)



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.**

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