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TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

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

CL8940PE
CL8940PE-3
LOT: 0704

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 ELISA[11].

PRESENTATION:

50 µg (CL8940PE) or 300 µg (CL8940PE-3) PE conjugated Ig lyophilized from a buffer containing PBS with 1% bovine serum albumin and 0.09% sodium azide (NaN_3) as a preservative. Reconstitute with PBS to a concentration of 0.1 mg/ml.

STORAGE/STABILITY:

Store at 4°C. **DO NOT FREEZE**. Avoid prolonged exposure to light. If the reagent is to be diluted, it is recommended that only the quantity to be used within one week be diluted. Check label for expiry date.

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

CEDARLANE®
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SPECIFICATIONS:

Clone: CI:A3-1

Specificity: Mouse Macrophage (F4/80)

Ig Class: Rat IgG_{2b}

Antibody Concentration: 0.1 mg/ml

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 $2x10^7$ cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain $1x10^6$ cells, representing 1 test).
4. To each tube, add ~0.5 µg* of **CL8940PE** or **CL8940PE-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. (It is recommended that the tubes are protected from light since most fluorochromes are light sensitive).
7. Wash 2 times at 4°C.
8. Resuspend the cell pellet in 50 µl ice cold media B.
9. Transfer to suitable tubes for flow cytometric analysis containing 15 µl of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA.

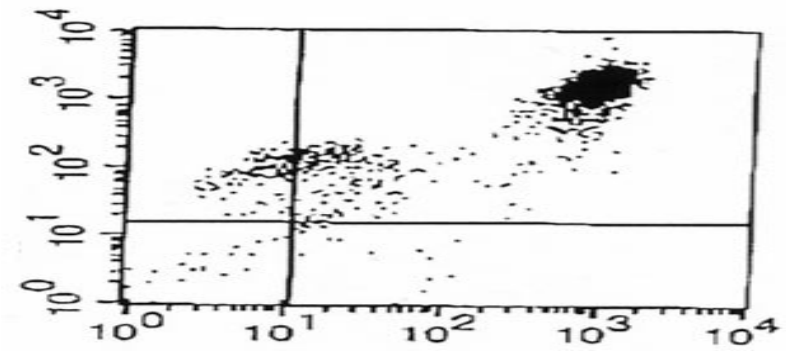
Media:

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

Results:

Tissue Distribution by Flow Cytometry Analysis:
(Representative dot plot)

Mouse Strain: BALB/c
Cell Concentration : $1x10^6$ cells per test
Antibody Concentration Used: 0.5 µg/10^6 cells
Isotypic Control: PE Rat IgG_{2b} (CLCR2B04)



PE Rat anti-Mouse F4/80- 5ì l

FITC Rat anti-Mouse CD11b- 5 ì l

Cell Source: Peritoneal Macrophages

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:

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