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TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

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

CL8940F
CL8940F-3
LOT:

DESCRIPTION:

Cedarlane's anti-mouse F4/80 monoclonal antibody reacts with the mouse macrophage F4/80 antigen, which is a 160kD 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.

PRESENTATION:

100 µg (CL8940F) or 300 µg (CL8940F-3) FITC conjugated Ig buffered in PBS, 0.1% NaN_3 and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

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 and prolonged exposure to light. If the reagent is being diluted, it is recommended that only the quantity to be used within one week be diluted.

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

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website: www.cedarlanelabs.com • e-mail: info@cedarlanelabs.com

SPECIFICATIONS:

Clone: C1: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 1×10^6 cells, representing 1 test).
4. To each tube, add 1.0 µg***** of **CL8940F or CL8940F-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.

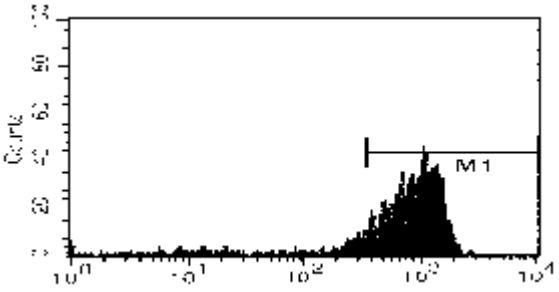
Media:

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:

Mouse Strain: BALB/c
Cell Concentration : $1x10^6$ cells per test
Antibody Concentration Used: 1.0 µg/10^6 cells
Isotypic Control: FITC Rat IgG_{2b}



Cell Source: Peritoneal Macrophage
Percentage of cells stained above control: 84.0%

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. Handbook of Experimental Immunology, Ed. Weir, D.M. (Chapter 43).

2. Szu-Hee Lee, Starky, P.M., Gordon, S. "Quantitative Analysis of Total Macrophage Content in Adult Mouse Tissues", J. Exp. Med. (1985), Volume 161 pp 475-489.

3. Hume, D.A., Perry, V.H., Gordon, S. "The Mononuclear Phagocyte System of the Mouse Defined by Immunohistochemical Localizations of Antigen F4/80: Macrophages Associated with Epithelia", The Anatomical Record (1984), Volume 210, pp 503-512.

4. Eur. J. Immunol. (1981), Volume 11, pp 805-815.

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