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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 ELISA¹¹.

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 (NaN₃) 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...

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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 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 **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 μ l ice cold media B.
9. 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:

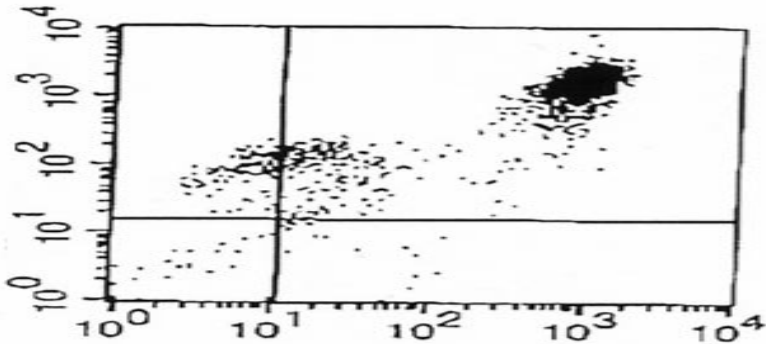
(Representative dot plot)

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: PE Rat IgG_{2b} (CLCR2B04)



PE Rat anti-Mouse F4/80- 5i1

FITC Rat anti-Mouse CD11b- 5i1

Cell Source: Peritoneal Macrophages

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. 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. Austyn, J. M., Gordon, S.. (1981) F4/80, a monoclonal antibody directed specifically against the mouse macrophage. *Eur. J. Immuno.* 11: 805-815.
5. Whiteland, J.L et al (1995). Immunohistochemical detection of T cell subsets and other leukocytes in paraffin embedded rat and mouse tissues with monoclonal antibodies. *J. Histochem. Cytochem.* 43: 313-320.
6. McKnight, A. J., et al. (1996). Molecular cloning of F4/80, a murine macrophage-restricted cell surface glycoprotein with homology to the G-protein-linked transmembrane 7 hormone receptor family. *J. Biol. Chem.* 271(1): 486-489.
7. Li, X. Q., et al. (1998). Immunohistochemical detection of testicular macrophage during the period of postnatal maturation in the mouse. *Int. J. Androl.* 21(6): 370-376.
8. Leenen, P., et al. (1998). Heterogeneity of mouse spleen Dendritic cells: in vivo phagocytic activity, expression of macrophage markers, and subpopulation turnover. *Jour. of Immuno.* 160: 2166-2173.

9. Berard, J., et al. (1997). Abnormal regulation of retinoic acid receptor β_2 Expression and compromised allograft rejection in transgenic mice expressing antisense sequences to retinoic acid receptor β_1 and β_3 . *Jour. of Immuno.* 159: 2586-2598.
10. Gordon, S. et al. (1992). Macrophages in tissue and in vitro. *Current opinion in immunology.* 4: 25-32.
11. Leenen, P. et al. (1986). Murine macrophage cell lines can be ordered in a linear differentiation sequence. *Differentiation.* 32:157-164.
12. Gordon, S. et al. (1992). Antigen markers of macrophage differentiation in murine tissues. *Current topics in microbio. and immuno.* 181: 1-37.

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