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TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

PE Hamster anti-Mouse CD11c Monoclonal Antibody

CL8923PE
CL8923PE-3
LOT: 287573A

DESCRIPTION:

This monoclonal antibody reacts with mouse CD11c, a 150 kDa glycoprotein which associates with CD18 to form a heterodimer of CD11c/CD18[1]. CD11c is expressed mainly on splenic dendritic cells, NK cells, granulocytes, monocytes, macrophages, T cells and a subset of B cells[1].

This antibody is suitable for use in flow cytometry.

PRESENTATION:

50 µg or 300 µg of PE labeled Ig buffered in PBS, 0.1% sodium azide (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. DO NOT FREEZE. Avoid 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. Check label for expiry date.

SPECIFICATIONS:

Clone: N418

Specificity: Mouse CD11c

Isotype: Hamster IgG

Antibody Concentration: 0.1 mg/ml

Continued Overleaf…..

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

CEDARLANE® 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 $2x10^7$ 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 ~ 0.275 µg* of **CL8923PE (or CL8923PE-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. 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.

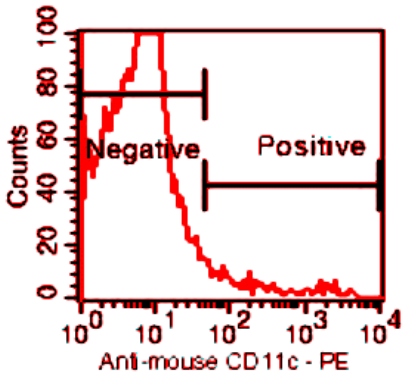
Media:

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 Histogram**)

Mouse Strain: C57/BL6
Cell Concentration : $1x10^6$ cells per test
Antibody Concentration Used: 0.275 µg/10^6 cells
Isotypic Control:PE Hamster IgG (Armenian hamster)



CD11c
Cell Source: Spleen
Percentage of cells stained above control: 4.7%

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.**

Continued Overleaf……

REFERENCES:

1) Metlay, J.P., *et al.* (1990) The distinct leukocyte integrins of mouse spleen dendritic cells as identified with new hamster monoclonal antibodies. *J.Exp.Med*. 171: 1753-1771.

2) Huleatt, J.W., and L. LeFrancois. (1995) Antigen-driven induction of CD11c on intestinal intraepithelial lymphocytes and CD8+ Tcells *in vivo*. *J. Immunol* 154: 5684-5693.

3) Maraskovsky, E.K., *et al.* (1996) Dramatic increase in the numbers of functional mature Dendritic cells in FLT3 ligand-treated mice: multiple dendritic cell subpopulations identified. *J.Exp.Med*. 184: 1953-1962.

4) Pulendran, B, *et al.* (1997) Developmental pathways of dendritic cells *in vivo*. Distinct function, phenotype, and localization of dendritic cell subsets in FLT3 ligand-treated mice. *J Immunol*. 159: 2222-2231.

5) Barclay, A.N., *et al.* (1997) The Leukocyte Antigen Facts Book, 2nd Ed. Academic Press, SanDiego, CA, pp. 161-162.