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TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

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PE Anti-Mouse CD72.1 (Lyb2.1) Monoclonal Antibody

CL8972PE
CL8972PE-3
LOT:

DESCRIPTION:

Cedarlane's anti-mouse CD71 monoclonal antibody reacts with the CD72 alloantigen CD72.1, a B-cell surface protein that is encoded by the Cd72a allele. CD72.1 is expressed on cells of the B cell lineage, except plasma cells[1]. Mouse strains expressing CD72.1 include C57L/-, C58/-, DBA/1, DBA/2, and SWR/J.

This antibody is suitable for use in flow cytometry.

PRESENTATION:

50 µg (CL8972PE) or 300 µg (CL8972PE-3) R-PE conjugated 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: CT-72.1

Specificity: Mouse CD71

Ig Class: Mouse IgG_{2a}

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

Continued overleaf…

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Lympholyte®-M cell separation medium (Ccl5030).
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 ~0.25 µg***** of **CL8971PE or CL8971PE-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.

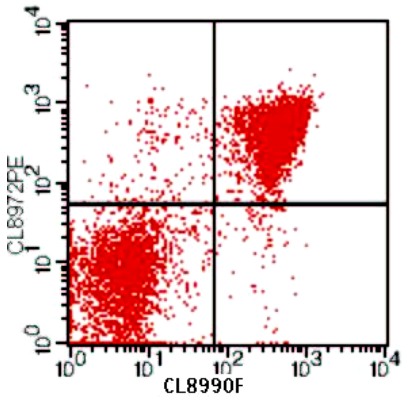
Media:

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 Histogram)

Cell Concentration : $1x10^6$ cells per test
Antibody Concentration Used: 0.25 µg/10^6 cells
Isotypic Control: PE Mouse IgG_{2a} (CLCMG2A04)
Strain Tested: DBA mouse



Cell Source: Mouse Spleen Lymphocytes
Percentage of cells stained above control: 63.3 %

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. Ying, H., J. I. Healy, C.C. Goodnow, and J.R. Parnes. 1998. Regulationof mouse CD72 gene expression during B lymphocyte development. J Immunol. 161: 4760-4767
2. Robinson, W.H., Tutt Landolfi, M.M., Schafer, H. and Parnes, J.R. 1993 Biochemical identity of the mouse ly-19.2 and ly-32.2 alloantigens with the B cell differention antigen Lyb-2/CD72. J. Immunol. 151:4764-4772.
3. Luo, W., de Velde, H.V., Hoegen, I.V., Parnes, J.R. and Thielemans, K. 1992 Ly-1 (CD5), a membrane glycoprotien of mouse TT lympholytes and a subset of B cells, is a natural ig and of the B cell surface protein Lyb-2 (CD72). J immunol. 148:1630-1634.

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