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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 CD72.1 (Lyb2.1) Monoclonal Antibody

CL8972F
CL8972F-3
LOT: 02010705

DESCRIPTION:

This monoclonal antibody reacts with the CD72 alloantigen CD72.1, a B-cell surface protein that is encoded by the *Cd72*^{a} allele. CD72.1 is expressed on cells of the B cell lineage, except plasma cells[3]. 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:

100 µg (CL8972F) or 300 µg (CL8972F-3) FITC 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. 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. Check label for expiry date.

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

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SPECIFICATIONS:

Clone: CT-72.1

Specificity: Mouse CD72.1

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 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 ~0.25 µg***** of **CL8972F** or **CL8972F-3** per 1×10^6 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).

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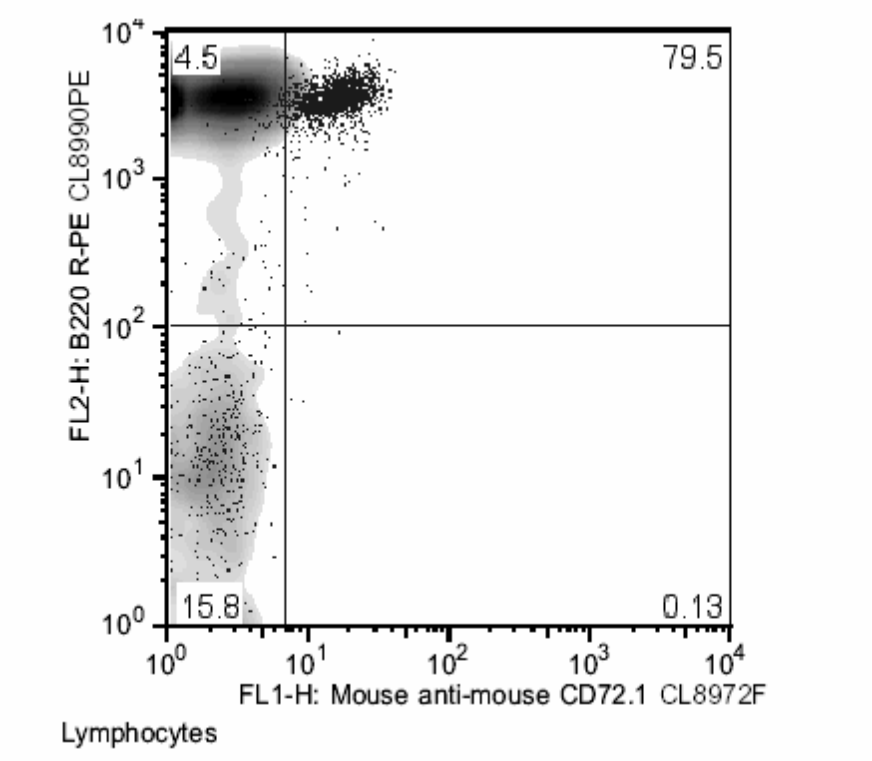
Results:

Tissue Distribution by Flow Cytometry Analysis:
(Representative Dot Plot)

Mouse Strain Tested: DBA/2
Cell Concentration : $1x10^6$ cells per test
Antibody Concentration Used: 0.25 µg/10^6 cells
Isotypic Control: FITC Mouse IgG_{2a} (CLCMG2A01)



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.**

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REFERENCES:

1. 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.

2. Luo, W., de Velde, H.V., Hoegen, I.V., Parnes, J.R. and Thielemans, K. 1992 Ly-1 (CD5), a membrane glycoprotein of mouse T lymphocytes and a subset of B cells, is a natural ligand of the B cell surface protein Lyb-2 (CD72). *J. Immunol*. 148:1630-1634.

3. Ying, H., J.I. Healy, C.C. Goodnow, and J.R. Parnes. 1998. Regulation of mouse CD72 gene expression during B lymphocyte development. *J. Immunol*. 161: 4760-4767.

FOR RESEARCH USE ONLY

NWB 07/28/04