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TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

Biotin Anti-Mouse CD72.1 Monoclonal Antibody

CL8972B
CL8972B-3
LOT:

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.[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:

100 µg (**CL8972B**) or 300 µg (**CL8972B-3**) Biotin 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. 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.

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 using 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 ~0.25 µg***** of **CL8972B or CL8972B-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. Add 100 µl of detection reagent **CLCSA1001** (Streptavidin-FITC) at 1:50 dilution.
9. Incubate the tubes at 4°C for 30-60 minutes.
   (It is recommended that the tubes are protected from light since most fluorochromes are light sensitive).
10. Wash 2 times at 4°C in media B.
11. Resuspend the cell pellet in 50 µl ice cold media B.
12. 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).

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. Regulation of mouse CD72 gene expression during B lymphocyte development. *J. Immunol*. 161: 4760-4767.

FOR RESEARCH USE ONLY

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