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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 CD45RC Monoclonal Antibody

CL8997PE
CL8997PE-3
LOT: 9751

DESCRIPTION:

CD45 (L-CA) is a transmembrane phosphotyrosine phosphatase expressed on leukocytes. Cedarlane's anti-mouse CD45RC is against the exon C-dependent RC isoform and reacts strongly with B cells, and less intensely with most CD8+ T cells. It does not recognize CD4+ T cells. Also, myeloid cells do not express the RC isoform.

Applications for this clone include immunohistochemistry (acetone-fixed frozen sections), flow cytometry and immunoprecipitation

PRESENTATION:

50 µg (CL8997PE) or 300 µg (CL8997PE-3) PE conjugated Ig buffered in PBS, 0.02% 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.

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

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SPECIFICATIONS:

Clone: IBL-8

Hybridoma Production:

Immunization: Immunogen: Mouse Spleen Cells
Donor: Wistar spleen

Fusion Partner: Sp-2/0 Ag14

Specificity: Mouse CD45RC

Ig Class: : Rat $IgG_{1/k}$

Format: PE conjugated Ig buffered in PBS, 0.02% NaN_3 and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. (Affinity Purified IgG from culture supernatant)

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 1.0 µg of **CL8997PE or CL8997PE-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.

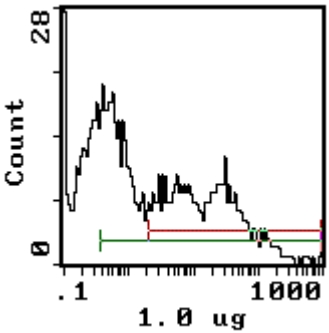
Media:

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:

Mouse Strain: BALB/c
Cell Concentration : $1x10^6$ cells per test
Antibody Concentration Used: 1.0 µg/10^6 cells
Isotypic Control: PE Rat IgG_1 (CLCR101)



Percentage of cells stained above control: 34.8%

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. Czompoly T, Labadi A, Balazs M, Nemeth P, and P Balogh. Use of cyclic peptide phage display library for the identification of a CD45RC epitope expressed on murine B cells and their precursors. *Biochemical and Biophysical Research Communications.* 2003 307: 791-796.

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