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TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

PE-Cy5 Anti-Mouse CD19 Monoclonal Antibody

CL8914TC
LOT: 11060308

DESCRIPTION:

This monoclonal antibody reacts with CD19, a co-receptor protein in the B-cell co-receptor complex that includes CD21 (CR2) and CD81 (TAPA-1) [1,2].
CD19 is an important B cell development marker appearing in early B-cell progenitor cells that is known to be important in the activation of mature cells.

This antibody is suitable for use in flow cytometry.

PRESENTATION:

100 µg of PE-Cy5 conjugated Ig buffered in PBS, 0.1% NaN_3 and a stabilizing agent.

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: 6D5

Specificity: Mouse CD19

Ig Class: Rat IgG_{2a}

PE-Cy5 Excitation: 488 nm
PE-Cy5 Emission: 670 nm

Notes: PE-Cy5 conjugates require a 650 nm long pass filter in the FL3 channel.

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

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or visit our website for a list of our international distributors including contact information
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FL2-FL3 compensation will be in the range of 1%.

Antibody Concentration: 0.1 mg/ml

FLOW CYTOMETRY ANALYSIS:

Method:

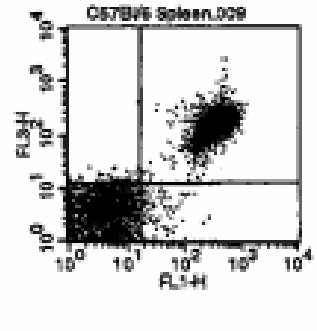
1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte®-M cell separation medium (CL5030).
2. Wash 2 times.
3. Resuspend the cells to a concentration of $2x10^7$ cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain $1x10^6$ cells, representing 1 test).
4. To each tube, add 1 µg***** of **CL8914TC** 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 dot-plot)
Mouse Strain: C57BL/6
Cell Concentration: $1x10^6$ cells per test
Antibody Concentration Used: 1 µg/10^6 cells



PE-Cy5 CD19

FITC B220
Cell Source: Spleen

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) Krop, I. et al (1996). The signaling activity of murine CD19 is regulated during B cell development. *Journal of Immunology.* **157**: 48-56.
2) Fearon, D. T. (1993). The CD19/CR2/TAPA-1 complex, CD45 and signaling by the antigen receptor of B lymphocytes. *Current Opinion In Immunology.* **5**: 341-348