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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

TECHNICALLY *Speaking*

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

FITC Anti-Mouse CD19 Monoclonal Antibody

CL8914F
CL8914F-3
LOT: 21010208

DESCRIPTION:

Cedarlane's anti-mouse CD19 antigen monoclonal antibody reacts with CD19, a co-receptor protein in the B-cell co-receptor complex that includes CD21 (CR2) and CD81 (TAPA-1)^{2,3}. 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 cells². It will not detect plasma cells.

This antibody is suitable for use in flow cytometry.

PRESENTATION:

100 ug (CL8914F) or 300 ug (CL8914F-3) FITC conjugated Ig buffered in PBS, 0.02% sodium azide (NaN₃) 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. If the reagent is being diluted, it is recommended that only the quantity to be used within one week be diluted.

SPECIFICATIONS:

Clone: 6D5

Specificity: Mouse CD19

Ig Class: Rat IgG_{2a}

Antibody Concentration: 0.1 mg/ml

Continued Overleaf...

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

CEDARLANE®
LABORATORIES LIMITED



toll free: 1-800-268-5058
in North America

phone: (905) 878-8891 • fax: (905) 878-7800

5516 - 8th Line, R.R.#2, Hornby, Ontario, CANADA L0P 1E0

or visit our website for a list of our international distributors including contact information
website: www.cedarlanelabs.com • e-mail: info@cedarlanelabs.com

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 2×10^7 cells/ml in media A. Add 50 μ l 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 μ g of **CL8914F** or **CL8914F-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 μ l ice cold media B.
9. Transfer to suitable tubes for flow cytometric analysis containing 15 μ l 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 μ l of 2M sodium azide in 100 mls)
- B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 μ l of 2M sodium azide in 100 mls).

Results:

Tissue Distribution by Flow Cytometry Analysis:

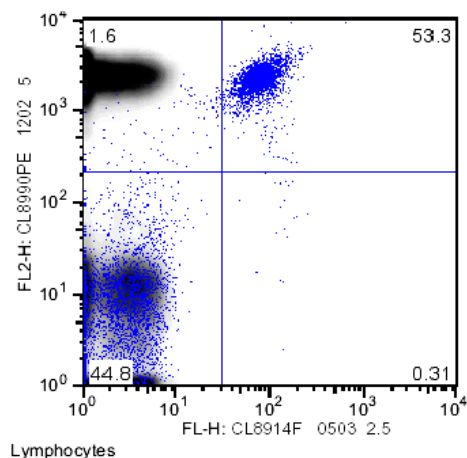
(Representative Dot Plot)

Mouse Strain Tested: C57/BL6

Cell Concentration : 1×10^6 cells per test

Antibody Concentration Used: 0.25 μ g/ 10^6 cells

Isotypic Control: FITC Rat IgG_{2a} (CLCR2A01)



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 (1986). Antibody to CD19 suppresses self-renewal of B-1 lymphocytes. *Euro. J. Immunol.* 26: 238
- 2) Krop, I., A.L. Shafer, D.T. Fearon, and M.S. Schlissel. 1996. The signaling activity of murine CD19 is regulated during B cell development. *J.Immunol.* 157: 48-56.
- 3) Fearon, D.T. 1993. The CD19/CR2/TAPA-1 complex, CD45 and signaling by the antigen receptor of B lymphocytes. *Curr.Opin.In Immunol.* 5: 341-348.

Laboratory Reagent For Research Use Only

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