



# SZABO SCANDIC

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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 CD19 Monoclonal Antibody

CL8914PE  
CL8914PE-3  
LOT: 13966040608

### DESCRIPTION:

Cedarlane's anti-mouse CD19 antigen monoclonal antibody is a pan B cell marker. It will not detect plasma cells.

This antibody is suitable for use in flow cytometry.

### PRESENTATION:

50 µg (CL8914PE) or 300 µg (CL8914PE-3) PE conjugated Ig buffered in PBS, 0.1% NaN<sub>3</sub> 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. 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<sub>2a</sub>

Antibody Concentration: 0.1 mg/ml

*Continued Overleaf...*

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

**CEDARLANE®**  
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website: [www.cedarlanelabs.com](http://www.cedarlanelabs.com) • e-mail: [info@cedarlanelabs.com](mailto: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<sup>®</sup>-M cell separation medium (CL5030).
2. Wash 2 times.
3. Resuspend the cells to a concentration of  $2 \times 10^7$  cells/ml in media A. Add 50  $\mu$ l of this suspension to each tube (each tube will then contain  $1 \times 10^6$  cells, representing 1 test).
4. To each tube, add  $\sim 1 \mu$ g\* of **CL8914PE or CL8914PE-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  $\mu$ l ice cold media B.
9. Transfer to suitable tubes for flow cytometric analysis containing 15  $\mu$ 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  $\mu$ l of 2M sodium azide in 100 mls)
- B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100  $\mu$ l of 2M sodium azide in 100 mls).

### Results:

#### Tissue Distribution by Flow Cytometry Analysis:

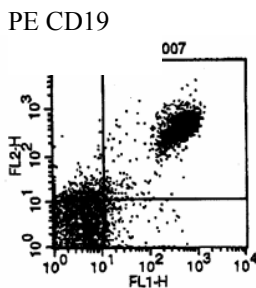
##### **(Representative Dot Plot)**

Mouse Strain: C57

Cell Concentration :  $1 \times 10^6$  cells per test

Antibody Concentration Used: 1.0  $\mu$ g/ $10^6$  cells

Isotypic Control: PE Rat IgG2a (CLCR2A04)



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.**

### **REFERENCES:**

- 1) Krop, I et al (1996). Antibody to CD19 suppresses self-renewal of B-1 lymphocytes. *Eur. J. Immunol.* 26:238
- 2) Fearon, D.T.(1993). The CD19/CR2/TAP A-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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