SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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

TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

PE Anti-Mouse CD40 Monoclonal Antibody

CL8939PE
CL8939PE-3
LOT: 03020406

DESCRIPTION:

Cedarlane's anti-mouse monoclonal antibody (clone 3/23) reacts with CD40 which is expressed on B lymphocytes and on a subset of both $CD4^+$ and $CD8^+$ T cells in the adult (but not neonatal) spleen[1]. The level of CD40 on B cells is enhanced following activation by LPS[1]. The interactions of CD40 with its ligand CD40L are responsible for generating humoral responses, germinal center formation, and generating B cell memory[2]. Stimulating cells with immobilized 3/23 mAb increases expression of CD86 (B7.2) on B cells[1,3]. Though the 3/23 mAb itself is a weak mitogen, it produces a synergistic proliferative B cell response with IL-4 or with mitogenic antibodies against surface Ig[1,3]. Costimulation with 3/23 mAb and IL-4 rescues B cells from apoptosis induced by hypercross-linking of sIgM or sIgD[3].

The 3/23 clone is suitable for use in flow cytometry. This clone is reported to be suitable for use in immunohistochemistry of acetone fixed frozen tissue sections[2].

PRESENTATION:

50 µg (CL8939PE) or 300 µg (CL8939PE-3) R-PE 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.

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

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: 3/23

Specificity: Mouse CD40

Ig Class: Rat IgG_{2a}

Immunogen: mouse CD40-human IgG1 fusion protein[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 preparation 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 ~0.25 µg***** of **CL8939PE or CL8939PE-3** per $1x10^6$ 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).

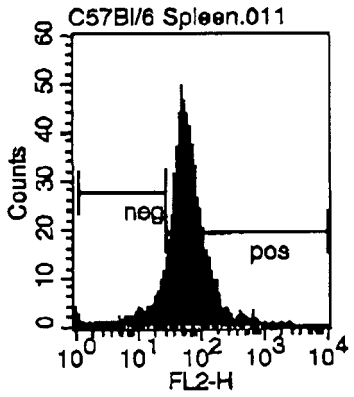
Continued Overleaf...

Results:

Tissue Distribution by Flow Cytometry Analysis:
(**Representative Histogram)**

Mouse Strain: C57Bl/6
Cell Concentration: $1x10^6$ cells per test
Antibody Concentration Used: 0.25 ug
Isotype Control: PE Rat IgG2a (CLCR2A04)

Cell Source: CD45R $(B220)^+$ gated spleen cells



Percentage of cells stained above control: 90.7%

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. Hasbold, J., C. Johnson-Leger, C.J. Atkins, E.A. Clark, and G.G.B. Klaus. 1994. Properties of mouse CD40: cellular distribution of CD40 and B cell activation by monoclonal anti-mouse CD40 antibodies. *Eur. J. Immunol*. **24**:1835-1842.

Continued Overleaf...

2. Foy, T.M., J.D. Laman, J.A. Ledbetter, A. Aruffo, E. Claassen, and R.J. Noelle. 1994. Gp39-CD40 interactions are essential for germinal center formation and the development of B cell memory. *J. Exp. Med*. **180**: 157-163.

3. Parry, S.L., J. Hasbold, M. Holman, and G.G.B. Klaus. 1994. Hypercross-linking surface IgM or IgD receptors on mature B cells induces apoptosis that is reversed by co-stimulation with IL-4 and anti-CD40. *J. Immunol.* **152:** 2821-2829.

FOR RESEARCH USE ONLY

® is a Registered Trademark of Cedarlane Laboratories Limited.

CH 02/02/05