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.

Biotin Anti-Mouse CD4 Monoclonal Antibody

CL013B
CL013B-3
LOT:

DESCRIPTION:

Cedarlane's CT-CD4 monolconal antibody (mAb) recognizes mouse CD4 (L3T4) which is expressed on the majority of thymocytes and on the MHC class II restricted subset of mature T cells including Th cells[1,2]. Mouse CD4 has also been reported to be present on multipotential hematopoietic stem cells, bone marrow myeloid precursors, and intrathymic precursors[2,3]. As a coreceptor in the TCR complex, CD4 is involved in T cell activation through interaction with MHC class II on APC's and in signal transduction via protein tyrosine kinase lck[1].

This antibody is suitable for use in flow cytometry and is reported to work in immunohistochemistry on acetone fixed frozen sections.

PRESENTATION:

100 µg (CL013B) or 300 µg (CL013B-3) biotin œnjugated Ig buffered in PBS, 0.1% 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. For long term storage, aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles. Check label for expiry date.

SPECIFICATIONS:

Clone: CT-CD4

Specificity: Mouse CD4

Ig Class: Rat IgG_{2a}

Antibody Concentration: 0.1 mg/ml

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

CEDARLANE® LABORATORIES LIMITED

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

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

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

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:

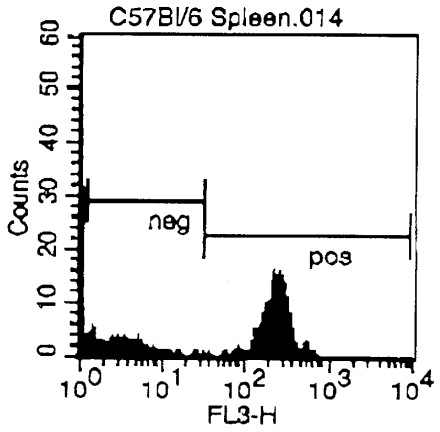
1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte®-M cell separation medium (CL5030).
2. Wash 2 times.
3. Resuspend the cells to a concentration of $2x10^7$ cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain 1×10^6 cells, representing 1 test).
4. To each tube, add ~1.0-0.5 µg of **CL013B or CL013B-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.
7. Wash 2 times at 4°C.
8. Add 100 µl of **CLCSA1004** (Streptavidin-PE) at a 1:20 dilution.
9. Incubate tubes at 4°C for 30 - 60 minutes (It is recommended that tubes are protected from light since most fluorochromes are light sensitive).
10. Wash 2 times at 4°C.
11. Resuspend the cell pellet in 50 µl ice cold media B.
12. 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 Histogram)
Mouse Strain: BALB/c
Cell Concentration : $1x10^6$ cells per test
Antibody Concentration Used: 0.5 µg/10^6 cells
Isotypic Control: Biotin Rat IgG_{2a} (CLCR2A15)



LFL2
Cell Source: Spleen
Percentage of cells stained above control: 18.38%

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. Bierer, B.E. et al. 1989. Annu. Rev. Immunol. 7: 579-599.
2. Fredrickson, G.G. et al. 1989. J. Exp. Med. 169: 1473-1478.
3. Wu, L. et al. 1991. Nature 349: 71-74.Dialynas, D.P. et al 1983 J. Immunol. 131:2445-2451.
4. Palathumpat, V. et al. 1992 J. Immunol. 148:3319-3326.
5. Gross, J. A. et al. 1992 J. Immunol. 149:380-388.
6. Darby, C.R. et al. 1993 J. Immunol. 159:125-129.
7. Darby, C.R. et al. 1992 Transplantation 54:483-490.
8. Cobbold, S.P. et al. 1984 Nature 312:548-551.
9. Agel, N.M. et al 1984 J. Immunol. Methods 69:207-214.

FOR RESEARCH USE ONLY

JV 9/23/05