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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

TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

Purified Anti-Rat CD44 Monoclonal Antibody

CL044AP
CL044AP-2
LOT: 4423

DESCRIPTION:

Cedarlane's anti-rat CD44 (OX-49) monoclonal antibody recognizes rat CD44 (Pgp-1), also called CD44H. This antigen is expressed on most leukocytes (except a sub population of B cells) and increases upon activation. The OX-49 antibody binds extracellularly to the standard (S) form on rat leukocytes, but it is not known if they bind to the N-terminal region. It has also been reported that the antibody may bind to melanoma cell lines that express CD44V (splice variant form).

This antibody is suitable for immunoprecipitation, flow cytometry, Western Blotting and immunohistochemisty on frozen and paraffin sections.

PRESENTATION:

250 µg (CL044AP) or 500 µg (CL044AP-2) purified Ig buffered in PBS and 0.02% NaN_3.

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.

SPECIFICATIONS:

Clone: MRC OX-49

Hybidoma Production:

Immunization: Immunogen: T cell blasts
Donor: BALB/c spleen

Fusion Partner: myeloma cell line NSO/1

Specificity: Rat CD44

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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

Ig Class: Mouse IgG_{2a}

Format: Purified Ig buffered in PBS and 0.02% NaN_3 (Purified from supernatant via Protein G Chromatography).

Antibody Concentration: 1.0 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®-Rat cell separation medium (CL5040).
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 1.0-0.5µg***** of **CL044AP or CL044AP-2**.
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 secondary antibody **CLCC30201** (FITC Goat anti-mouse IgG (H+L)) at 1:500 dilution.
9. Incubate the tubes at 4°C for 30-60 minutes.
   (It is recommended that the tubes are protected from light since most fluorochromes are light sensitive).
10. Wash 2 times at 4°C in media B.
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:

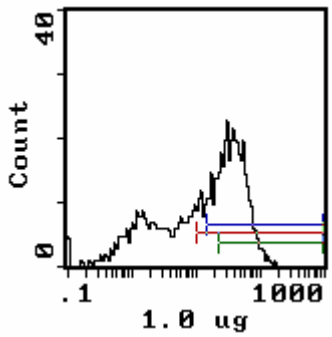
A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 µl of 2M sodium azide in 100 mls).
B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 µl of 2M sodium azide in 100 mls).

Results:

Tissue Distribution by Flow Cytometry Analysis:

Rat Strain: Fisher 344
Cell Concentration: 1 x 10^6 cells per test
Antibody Concentration Used: 1.0 µg/10^6 cells
Isotypic Control: Purified Mouse IgG_{2a} (CLCMG2A00)

Cell Source	Percentage of cells stained above control:
Thymus	82.1%
Spleen	53.5%
Lymph Node	87.1%



Cell Source: Spleen
Percentage of cells stained above control: 53.5%

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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:

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JCr 04/18/06