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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

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- Trockeneiszuschlag
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Purified Anti-Rat CD25 (IL-2R) Monoclonal Antibody

CL039AP
CL039AP-2
LOT: 1039218A

DESCRIPTION:

Cedarlane's anti-rat CD25 (IL-2R) monoclonal antibody recognizes the smaller (alpha subunit) 55kD chain of the IL-2 receptor found on activated rat T cells, thymic dendritic cells but not resting lymphocytes (1). CL039AP binds to the rat interleukin-2 receptor designated CD25 and has proven to be an important marker for activated T cells. (2)

This clone is reported to work with frozen and paraffin sections (3).

PRESENTATION:

250 µg (**CL039AP**) or 500 µg (**CL039AP-2**) purified Ig buffered in PBS and 0.02% NaN_3.
For maximal recovery of contents, please quick-spin vial before opening.

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-39

Hybridoma Production:

Immunization: Immunogen: T blasts from a mixed lymphocyte reaction between purified CD4 positive T cells and irradiated spleens.
Donor: BALB/c spleen

Fusion Partner: NSO/1

Specificity: Rat CD25 (IL-2 Receptor)

Ig Class: Mouse IgG_1

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

In CANADA: Toll Free: 1-800-268-5058
4410 Paletta Court, Burlington, ON L7L 5R2 ph: (289) 288-0001, fax: (289) 288-0020
e-mail: general@cedarlanelabs.com

In the USA: Toll Free: 1-800-721-1644
1210 Turrentine Street, Burlington, NC 27215 ph: (336) 513-5135, fax: (336) 513-5138
e-mail: service@cedarlanelabs.com

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 1.0µg***** of **CL039AP or CL039AP-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 **CLCC30204** (PE Goat anti-mouse IgG (H+L)) at 1:20 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:

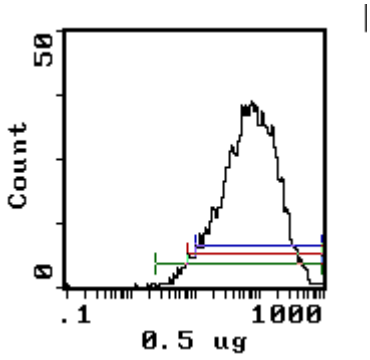
A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 µl of 2M sodium azide in 100 mls).
B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 µl of 2M sodium azide in 100 mls).

Results:

Tissue Distribution by Flow Cytometry Analysis:

Rat Strain: Wistar
Cell Concentration : $1x10^6$ cells per test
Antibody Concentration Used: 1.0 µg/10^6 cells
Isotypic Control: Mouse IgG_1, kappa

Cell Source	Percentage of cells stained above control:
Thymus - unactivated	2.51%
Con-A activated thymocytes	93.98%



LFL2
Cell Source: Con-A Activated Thymocytes
Percentage of cells stained above control: 93.98%

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) Paterson, D.J., Jeffries, W.A., Green, J.R., Brandon, M.R., Corthesy, P., Puklavec, M. and A.F. Williams. (1987) Mol. Immunol. 24:1281-1290. Antigens of Activated Rat T Lymphocytes Including a Molecule of 50,000 Mr Detected Only on CD4 Positive T Blasts.

2) Barclay, A.N. (1981) Immunology. 42:593-600 The Localization of populations of lymphocytes defined with monoclonal antibodies in rat lymphoid tissues.

3) Whiteland, J.L et al (1995). Immunohistochemical detection of T cell subsets and other leukocytes in paraffin embedded rat and mouse tissues with monoclonal antibodies .J. Histochem. Cytochem. 43: 313-320.

FOR RESEARCH USE ONLY

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