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TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

Purified Anti-Rat αβ TCR Monoclonal Antibody

CL057AP
CL057AP-2
LOT: 5721

DESCRIPTION:

Cedarlane's anti-rat αβ T cell receptor monoclonal antibody detects a T cell-specific heterodimeric 40 and 46 kD cell surface protein that is expressed on the vast majority, but not all, peripheral rat T cells. CL057AP induces blastoid transformation and IL-2R expression in T-cells when cross linked on an artificial surface. It also induces cell proliferation when exogenous IL-2 is added.

Applications: Immunoprecipitation, flow cytometry, immunohistochemical staining on frozen sections.

PRESENTATION:

250 µg (**CL057AP**) or 500 µg (**CL057AP-2**) purified Ig buffered in PBS, 0.02% 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 repeated freeze/thaw cycles.

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

CEDARLANE® LABORATORIES LIMITED

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or visit our website for a list of our international distributors including contact information

website: www.cedarlanelabs.com • e-mail: info@cedarlanelabs.com

SPECIFICATIONS:

Clone: R73

Hybridoma Production:

Immunization: Immunogen: Rat T Blasts
Donor: BALB/c Spleen

Fusion Partner: X63-Ag 8.653

Specificity: Rat αβ TCR

Ig Class: Mouse IgG_1

Format: Purified Ig buffered in PBS, 0.02% NaN_3 (Purified from BioReactor Supernatant via Protein G Affinity 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 0.2 - 0.5 µg***** of **CL057AP or CL057AP-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).

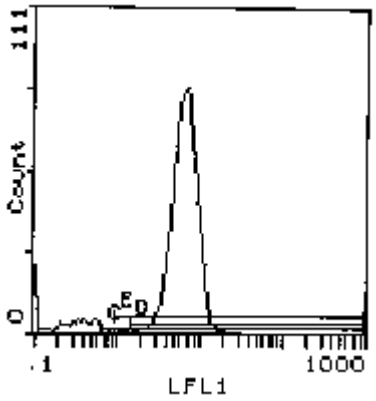
Results:

Tissue Distribution by Flow Cytometry Analysis:

Rat Strain: Fischer
Cell Concentration : $1x10^6$ cells per test
Antibody Concentration Used: 0.2 µg/10^6 cells
Isotypic Control: Mouse IgG_1

Cell Source	Percentage of cells stained above control:
Thymus	61.1%
Splenic T Cells*	88.8%

*(T cells isolated with CL102 - Cedarlane's Rat T Cell Recovery Column Kit)



Cell Source: Splenic T-cells
Percentage of cells stained above control: 88.8%

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.**

Strain Distribution by Flow Cytometry Analysis:

Procedure: see page 2
Cell Concentration : $1x10^6$ cells per test
Antibody Concentration Used: 0.2 µg/10^6 cells
Strains Tested: Buffalo, Wistar, Fischer 344, Brown Norway
Positive: Buffalo, Wistar, Fischer 344, Brown Norway
Negative: none

REFERENCES:

1. Hunig, T., Wallny, H.J., Hartley, J.K., Lawetzky, A., and Tiefenthaler, G. (1989). A Monoclonal Antibody to a Constant Determinant of the Rat T-Cell Antigen Receptor that Induces T-Cell Activation. J. Exp. Med. 169:73-86.

FOR RESEARCH USE ONLY

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