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TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

PE-Cy5 Anti-Mouse αβTCR Monoclonal Antibody

CL7200TC
LOT:

DESCRIPTION:

Cedarlane's anti-mouse αβ T cell receptor mAb reacts with the surface of all αβ TCR bearing cells and does not react with receptors on γδ TCR positive T cells. When used in an immobilized form, this antibody was able to activate all αβ TCR bearing T cell hybridomas tested to produce IL-2 (1).

Use of this antibody in conjunction with an anti-CD3ε mAb (Cedarlane's anti-CD3ε mAb CL7202F) allows for accurate measurements of the mutually exclusive sub-populations of αβ TCR and γδ TCR bearing T cells.

PRESENTATION:

100 µg PE-Cy5 conjugated 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. **DO NOT FREEZE**. Avoid prolonged exposure to light. Check label for expiry date.

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

CEDARLANE® LABORATORIES LIMITED

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

SPECIFICATIONS:

Clone: H57-597

Specificity: Mouse αβTCR

Ig Class: Hamster IgG

Molar Ratio: 1

PE-Cy5 Excitation: 488 nm

PE-Cy5 Emmission: 667 nm

Notes: PE-Cy5 conjugates require a 650 nm long pass filter in the FL3 channel.

FL2-FL3 compensation will be in the range of 1%.

Antibody Concentration: 0.2 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 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 µg***** of **CL7200TC** 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.
   (It is recommended that the tubes are protected from light, since most flurochromes 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:

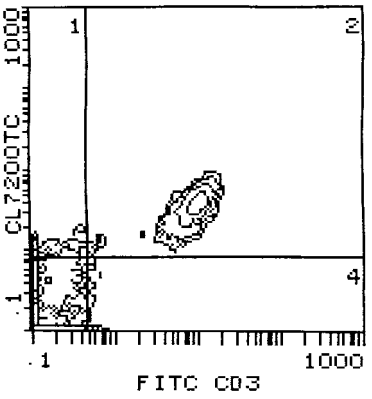
A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 µl of 2M sodium azide in 100 mls).
B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 µl of 2M sodium azide in 100 mls).

Results:

Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: BALB/c
Cell Concentration : $1x10^6$ cells per tests
Antibody Concentration Used: 1.0 µg/10^6 cells
Isotypic Control: PE-Cy5 Hamster IgG

Cell Source	Percentage of cells stained above control:
Spleen	35.4%



Cell Source: Spleen
Percentage of cells stained above control: 35.4%

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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2. Goodman, T., Lefrancois, L. 1989. Intraepithelial Lymphocytes. J. of Exp. Med. 170: 1569-1581.

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