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TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

PE Anti-Mouse γδ TCR Monoclonal Antibody

CL7201PE
CL7201PE-3
LOT: 7153

DESCRIPTION:

Cedarlane's anti-mouse γδ T cell receptor monoclonal antibody reacts with the surface on all γδ TCR bearing cells and does not react with receptors on αβ TCR positive cells. It is thought that this clone may be specific for a determinant present on Cδ [7]. The γδ T cell receptors are present on murine $CD4^-CD8^-$ thymocytes, peripheral T cells, intestinal $CD8^+$ intraepithelial lymphocytes and Thy 1^+ dendritic epidermal cells in the skin [1].

Use of this antibody in conjunction with an anti-CD3 monoclonal antibody (Cedarlane's anti-CD3ε Monoclonal Antibody CL7202F) allows for accurate measurements of the mutually exclusive sub-populations of γδ TCR and αβ TCR bearing T cells. Cedarlane's anti mouse γδ TCR monoclonal antibody has also been used successfully for the characterization of murine intraepithelial lymphocytes.

PRESENTATION:

50 µg (CL7201PE) or 300 µg (CL7201PE-3) PE conjugated 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. **DO NOT FREEZE**. Avoid prolonged exposure to light.

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

CEDARLANE® LABORATORIES LIMITED

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SPECIFICATIONS:

Clone: GL-3

Hybridoma Production:

Immunization: Immunogen:C57BL/6 intraepithelial lymphocytes
Donor: Armenian Hamster.

Fusion Partner: Murine myeloma cell line SP2/0

Specificity: Mouse γδ T cell receptor

Ig Class: Hamster IgG

Format: R-PE conjugated 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. (Purified from ascitic fluid via Protein G Chromatography)

Antibody Concentration: 0.1 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 0.5ug-1.0 µg***** of **CL7201PE** or **CL7201PE-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.
   (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).

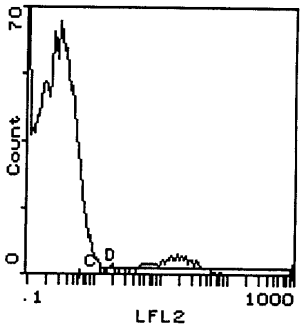
Results:

Tissue Distribution by Flow Cytometry Analysis:

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

Cell Source	Percentage of cells stained above control:
Thymus	3.2%
Splenic T cells*	4.4%

* (T cells isolated with CL101- Cedarlane's Mouse T Cell Recovery Column Kit)



Cell Source: Splenic T-cells
Percentage of cells stained above control: 4.4%

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:

1. Brenner et al. 1986. Indentification of a putative Second T Cell receptor. Nature (Lond.) 322:145.
2. Cron. R & et al. 1988. A functional subpopulation of peripheral murine T lymphocytes which express a novel T Cell Structure. J. Immunol. 141:1074.
3. Nakawishii, N.K. et al. 1987. Tγ protein is expressed on fetal thymocytes as a disulphide - linked heterodimer. Nature (Lond.) 325:720.
4. Sowder et al. 1988. A large subpopulation of avian T cells express a homologue of the mammalian Tγ/δ receptor. J. Exp. Med. 167:315.
5. Goodman, T & L. Lefrancois. 1988. Expression of the γδ TCR on intestinal $CD8^+$ intraepithelial lymphocytes. Nature (Lond.) 333:855.
6. Skarstein, K. et al. 1994. Oligoclonality of T cells in salivary glands of autoimmune MRL/*lpr* mice. Immunology. **81**:497-501.
7. Goodman, T & L. Lefrancois. 1989. Intraepithelial Lymphocytes. J. Exp. Med. Vol. 170:1569-1581.

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