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TECHNICALLY *Speaking*

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

Biotin Anti-Mouse $\gamma\delta$ TCR Monoclonal Antibody

CL7201B
CL7201B-3
LOT: 7143

DESCRIPTION:

Cedarlane's anti-mouse $\gamma\delta$ T cell receptor monoclonal antibody reacts with the surface on all $\gamma\delta$ TCR bearing cells and does not react with receptors on $\alpha\beta$ TCR positive cells. It is thought that this clone may be specific for a determinant present on C δ ⁷. The $\gamma\delta$ 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-CD3 ϵ Monoclonal Antibody CL7202AP) allows for accurate measurements of the mutually exclusive sub-populations of $\gamma\delta$ TCR and $\alpha\beta$ TCR bearing T cells. Cedarlane's anti mouse $\gamma\delta$ TCR monoclonal antibody has also been used successfully for the characterization of murine intraepithelial lymphocytes.

This clone is reported to work with frozen sections⁶.

PRESENTATION:

100 μ g (CL7201B) or 300 μ g (CL7201B-3) Biotin conjugated Ig buffered in PBS, 0.02% NaN₃ 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 freeze/thaw cycles.

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

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SPECIFICATIONS:

Clone: GL-3

Hybridoma Production:

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

Fusion Partner: Murine myeloma cell line SP2/0

Specificity: Mouse $\gamma\delta$ T cell receptor

Ig Class: Hamster IgG

Format: Biotin 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 2×10^7 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 **CL7201B** or **CL7201B-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 .
7. Wash 2 times at 4°C .
8. Add 100 μl of secondary antibody **CLCSA1004** (Streptavidin-PE) at a 1:50 dilution
9. Incubate tubes at 4°C for 30-60 minutes (It is recommended that tubes are protected from light since most fluorochromes are light sensitive).
10. Wash 2 times at 4°C .
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:

Mouse Strain: CBA/J

Cell Concentration : 1×10^6 cells per test

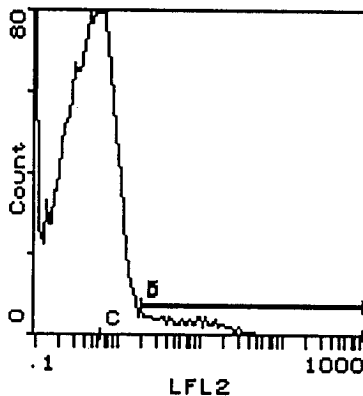
Antibody Concentration Used: $1.0 \mu\text{g}/10^6$ cells

Isotypic Control: Biotin Hamster IgG

Cell SourcePercentage of cells stained above control:

Thymus	3.3%
Splenic T Cells*	3.7%

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



Cell Source: Splenic T Cells

Percentage of cells stained above control: 3.7%

N.B. Appropriate control samples should always be included in any labeling 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 : 1×10^6 cells per test

Antibody Concentration Used: $1.0 \mu\text{g}/10^6$ cells

Strains Tested: C57BL/6, CBA/J, BALB/c, AKR, C3H/He

Positive: C57BL/6, CBA/J, BALB/c, AKR, C3H/He

Negative: none

REFERENCES:

1. Brenner et al. 1986. Identification 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. T γ 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 T γ δ receptor. J. Exp. Med. 167:315.
5. Goodman, T & L. Lefrancois. 1988. Expression of the $\gamma\delta$ 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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