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# TECHNICALLY *Speaking*

Place your order with CEDARLANE® or your local distributor.

*Please contact CEDARLANE® for lot specific information.*

## **FITC Anti-Mouse $\gamma\delta$ TCR Monoclonal Antibody**

**CL7201F**  
**CL7201F-3**  
**LOT: 7131**

### **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 $\delta$  7. The  $\gamma\delta$  T cell receptors are present on murine CD4<sup>-</sup>CD8<sup>-</sup> thymocytes, peripheral T cells, intestinal CD8<sup>+</sup> intraepithelial lymphocytes and Thy 1<sup>+</sup> dendritic epidermal cells in the skin <sup>1</sup>.

Use of this antibody in conjunction with an anti-CD3 monoclonal antibody (Cedarlane's anti-CD3 $\epsilon$  Monoclonal Antibody CL7202F) 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 sections<sup>6</sup>.

### **PRESENTATION:**

100  $\mu$ g (CL7201F) or 300  $\mu$ g (CL7201F-3) FITC conjugated Ig buffered in PBS, 0.02% NaN<sub>3</sub> 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. Avoid prolonged exposure to light.

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

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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  $\gamma\delta$  T cell receptor

Ig Class: Hamster IgG

Format: FITC conjugated Ig buffered in PBS, 0.02% NaN<sub>3</sub> 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<sup>®</sup>-M cell separation medium (CL5030).
2. Wash 2 times.
3. Resuspend the cells to a concentration of  $2 \times 10^7$  cells/ml in media A. Add 50  $\mu$ l of this suspension to each tube (each tube will then contain  $1 \times 10^6$  cells, representing 1 test).
4. To each tube, add 1.0  $\mu$ g\* of **CL7201F** or **CL7201F-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 fluorochemicals are light sensitive.)
7. Wash 2 times at 4°C.
8. Resuspend the cell pellet in 50  $\mu$ l ice cold media B.
9. Transfer to suitable tubes for flow cytometric analysis containing 15  $\mu$ l 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 :  $1 \times 10^6$  cells per tests

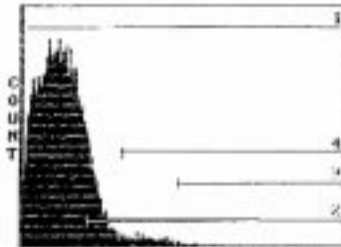
Antibody Concentration Used:  $1.0 \mu\text{g}/10^6$  cells

Isotypic Control: FITC Hamster IgG

Cell SourcePercentage of cells stained above control:

Thymus	3.7%
Splenic T Cells*	3.9 %

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



LFL1

Cell Source: Splenic T Cells

Percentage of cells stained above control: 3.9%

**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 :  $1 \times 10^6$  cells per tests

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:**

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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 $\gamma$  protein is expressed on fetal thymocytes as a disulphide - linked heterodimer. Nature (Lond.) 325:720.
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