



# SZABO SCANDIC

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## Produktinformation



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Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



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

Catalogue#	Format	Size	Concentration	Isotype Control
<b>CL7201A</b>	Purified	0.5ml	NA	HM00
<b>CL7201AP</b>	Purified	250 $\mu$ g	1.0 mg/ml	HM00
<b>CL7201NA</b>	Purified	1.0ml	1.0 mg/ml	HM00
<b>CL7201B/-3</b>	Biotin	100 $\mu$ g/300 $\mu$ g	0.1 mg/ml	HM15
<b>CL7201F/-3</b>	FITC	100 $\mu$ g /300 $\mu$ g	0.1 mg/ml	CLCHM01
<b>CL7201PE/-3</b>	PE	50 $\mu$ g /300 $\mu$ g	0.1 mg/ml	HM04

Isotype: Hamster IgG

#### **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 $\delta$ <sup>7</sup>. 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 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 sections<sup>6</sup>.

#### **PRESENTATION:**

**Purified:** Purified IgG buffered in PBS and 0.02% NaN<sub>3</sub>. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.

**Biotin, FITC and PE:** Biotin/FITC/PE conjugated IgG 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:**

For all formats, store at 4°C. DO NOT FREEZE **PE** conjugates. For long term storage (**Purified, Biotin** and **FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

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## **SPECIFICATIONS:**

Clone: GL-3

### Hybridoma Production:

Immunization: Immunogen: C57BL/6J intraepithelial lymphocytes  
Donor: American Hamster

Fusion Partner: Murine myeloma cell line SP2/0

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

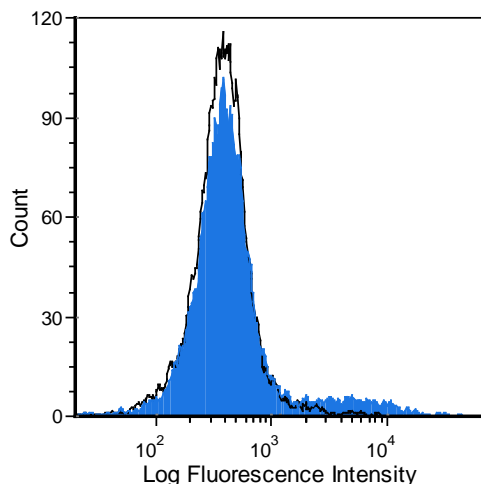
## **TEST RESULTS:**

Mouse Strain: C3H/He

Cell Concentration :  $1 \times 10^6$  cells per tests

<u>Cell Source</u>	<u>Percentage of cells stained above control:</u>
Thymus	10.20%
Splenic T Cells*	21.6%

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



C3H/He mouse splenic T-cells were stained with anti-gamma/delta TCR (clone: GL3) (filled histogram) or Armenian hamster IgG isotype control (open histogram).

**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.**

## **REFERENCES:**

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2. Brown,W.R.A., Barclay,A.N., Sunderland,C.A. and A.F. Williams. (1981) Nature. 289, 1164-1177. Identification of a glycoprotein-like molecule at the cell surface of rat thymocytes.
3. Standring,R. and A.F. Williams. (1978) Biochim.Biophys. Acta. 508, 85-96. Glycoproteins and antigens of membranes prepared from rat thymocytes after lysis by shearing or with the detergent Tween-40.
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