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CEDARLANE[®]
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Conveniently Delivering You Today's Innovations
for the Science of Tomorrow™

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

Catalogue#	Format	Size	Concentration	Isotype Control
CL7201A	Purified	0.5ml	NA	HM00
CL7201AP	Purified	250 μ g	1.0 mg/ml	HM00
CL7201NA	Purified	1.0ml	1.0 mg/ml	HM00
CL7201B/-3	Biotin	100 μ g/300 μ g	0.1 mg/ml	HM15
CL7201F/-3	FITC	100 μ g /300 μ g	0.1 mg/ml	CLCHM01
CL7201PE/-3	PE	50 μ g /300 μ 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 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 skin¹.

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:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (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% NaN₃ 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

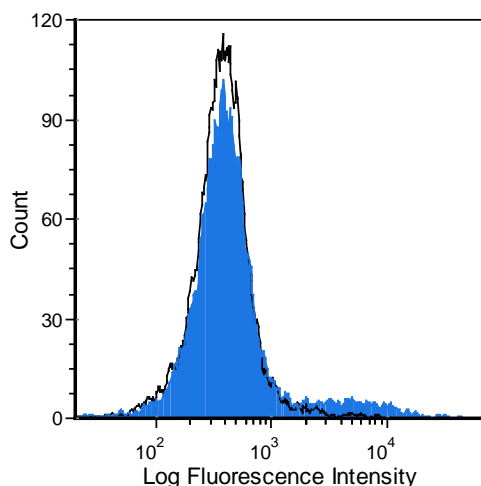
TEST RESULTS:

Mouse Strain: C3H/He

Cell Concentration : 1×10^6 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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6. Brouard, S., *et al.* (1999) J. of Immunol. 162, 3367-3377. T Cell repertoire alterations of vascularized xenografts.

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