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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
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Technically
Speaking

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

**Anti-Mouse $\alpha\beta$ TCR
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL7200A	Acities	0.50ml	1.0 mg/ml	CLCHM00
CL7200AP	Purified	250 μ g	1.0 mg/ml	CLCHM01
CL7200APC	APC	0.1mg	0.1 mg/ml	CLCHM05
CL7200B/-3	Biotin	100 μ g/300 μ g	0.1 mg/ml	CLCHM15
CL7200F/-3	FITC	100 μ g/300 μ g	0.1 mg/ml	CLCHM01
CL7200PE	PE	50 μ g	50 μ g /0.5ml	CLCHM04
CL7200PE-3	PE	300 μ g	300 μ g/0.5ml	CLCHM04
CL7200AF4	Alexa Fluor [®] 488	100 μ g	0.1 mg/ml	N/A

Alexa Fluor[®] is a registered trademark of Life Technologies Corporation.

Isotype: Armenian Hamster IgG

DESCRIPTION:

Cedarlane's anti-mouse $\alpha\beta$ T cell receptor monoclonal antibody reacts with the surface of all $\alpha\beta$ TCR bearing cells and does not react with receptors on $\gamma\delta$ TCR positive T cells. This monoclonal antibody when used in an immobilized form was able to activate all $\alpha\beta$ TCR bearing T cell hybridomas tested to produce IL-2 (1).

Use of this antibody in conjunction with an anti-CD3 ϵ monoclonal antibody (Cedarlane's anti-CD3 ϵ mAb CL7202AP) allows for accurate measurements of the mutually exclusive sub-populations of $\alpha\beta$ TCR and $\gamma\delta$ TCR bearing T cells.

This clone has been reported to work in flow cytometry⁴, immunoprecipitation¹, immunohistochemistry (frozen sections)⁶ and Western Blotting⁵.

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, PE, APC and AF488: Biotin/FITC/PE/APC/AF488 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, APC and AF488 conjugates. For long term storage (**Purified, Biotin, 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: H57-597

Hybridoma Production:

Immunization: Immunogen: Affinity purified D0 -11.10 TCR

Donor: Armenian Hamster

Fusion Partner: Mouse myeloma variant P3X63Ag.653

Specificity: Mouse $\alpha\beta$ T Cell Receptor

Presentation: Purified Ig buffered in PBS with the addition of 0.02% NaN_3 (Purified from Ascitic fluid via Protein G Affinity Chromatography)

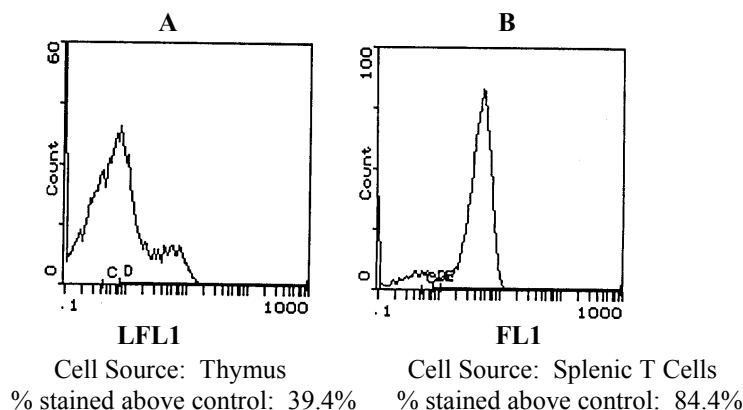
Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: BALB/c

Cell Concentration: 1×10^6 cells per test

Antibody Concentration Used: $0.2 \mu\text{g}/10^6$ cells

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



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**

Strain Distribution by Flow Cytometry Analysis:

Procedure: as above

Cell Concentration: 1×10^6 cells per test

Antibody Concentration used: $0.5 \mu\text{g}/10^6$ cells

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

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

Negative: None

REFERENCES:

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2. Goodman, T., Lefrancois, L. 1989. Intraepithelial Lymphocytes. *J. of Exp. Med.* **170**: 1569-1581.
3. Gross, J. A., E. Callas and J. P. Allison. 1992. Identification and Distribution of the Costimulatory Receptor CD28 in the Mouse. *J. of Immunol.* **149**: 380-388.
4. Palathumpat, V. *et al.* 1992. Treatment of BCL₁ Leukemia by Transplantation of Low Density Fractions of Allogeneic Bone Marrow and Spleen Cells. *J. of Immunol.* **148**: 3319-3326.
5. Paliwal, V. *et al.* 1997. Recombinant Soluble $\alpha\beta$ TCR Receptors Protect T Cells from Immune Suppression. *J. of Immunol.* **159**: 1718-1727
6. Skarstein, K. *et al.* 1994. Oligoclonality of T cells in salivary glands of autoimmune MRL/*lpr* mice. *Immunology.* **81**:497-501.

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