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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Technically
Speaking

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

**Anti Mouse CD5 (Ly-1)
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL8964AP	Purified	250µg	1.0 mg/ml	CLCR2B00
CL8964B	Biotin	100µg	0.1 mg/ml	CLCR2B15
CL8964F	FITC	100µg	0.1 mg/ml	CLCR2B01
CL8964PE	PE	50µg	0.1 mg/ml	CLCR2B04

Ig Class: Rat IgG_{2b}

DESCRIPTION:

Cedarlane's anti-mouse CD5 (Ly-1) Monoclonal Antibody is specific for the mouse CD5 antigen. This transmembrane glycoprotein is a T-cell associated marker that is also expressed by two B-cell neoplasms, lymphocytic leukemia and mantle cell lymphoma. CD5 is expressed on all T cells early in development, a subset of B cells described as B1a B cells, 95% of thymocytes and 72% of peripheral blood lymphocytes. CD5 has a molecular weight of 67KDa and belongs to the cysteine-rich macrophage scavenger receptor family of proteins.

The CD5 receptor is physically associated with the antigen receptor complex in both T and B cells and modulates intracellular signals initiated by both TCR and BCR. CD5 is also a counter receptor for CD72.

This antibody is suitable for use in flow cytometry.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography). For maximal recovery of contents, please quick-spin vial before opening.

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.

Continued Overleaf.....

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registered company.

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SPECIFICATIONS:

Clone: YTS 121.5.2

Immunogen: CBA Mouse thymocytes

Specificity: Mouse CD5 transmembrane glycoprotein

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Strain: ATH

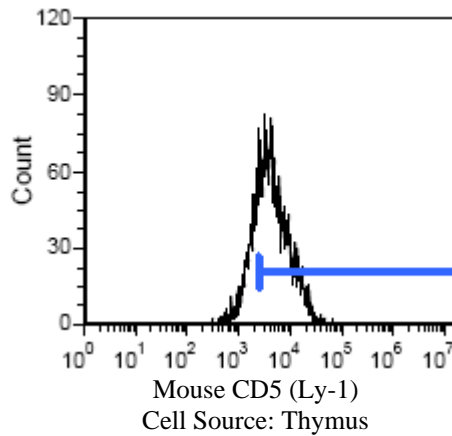
Cell Concentration: 1×10^6 cells per test

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

Cell Source

Percentage of cell stained above control:

Thymus	75.4%
Spleen	13.7%
Lymph Node	46.0%



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:

1. Raman C et al. 1998. Regulation of Casein Kinase 2 by Direct Interaction with Cell Surface Receptor CD5. *The Journal of Biological Chemistry*. July 24, 273 (30):19183-19189.
2. Ledbetter J.A et al. 1980. T Cell Subsets Defined By Expression of Lyt – 1,2,3 AND Thy-1 Antigens. *The Journal of Experimental Medicine*. August, 152:280-295.
3. Ewijk W et al. 1981. Fluorescence Analysis and Anatomic Distribution of Mouse T Lymphocyte Subsets Defined By Monoclonal Antibodies To The Antigens THY-1, LYT-1, LYT-2, and T-200. *The Journal of Immunology*. December, 127 (6):2594-2604.

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