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Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Zuschläge

- Mindermengenzuschlag
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Technically
Speaking

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

Purified Anti Mouse CD5 (Ly-1) Monoclonal Antibody

Catalogue#	Format	Size	Concentration	Isotype Control
CL8904AP	Purified	250µg	1.0 mg/ml	CLCR2A00
CL8904B	Biotin	100µg	0.1 mg/ml	CLCR2A15
CL8904F	FITC	100µg	0.1 mg/ml	CLCR2A01
CL8904PE	PE	50µg	0.1 mg/ml	CLCR2A04

Ig Class: Rat IgG_{2ak}

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 B1aB 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 clone (53-7.3) has been reported to work in Immunohistochemistry on acetone fixed frozen sections and zinc fixed paraffin sections, Immunoprecipitation and 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 (**Ascites, Purified, Biotin, FITC and NA**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

Continued Overleaf.....

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www.cedarlanelabs.com

An ISO 9001:2000 and ISO 13485:2003
registered company.

In CANADA: **Toll Free: 1-800-268-5058**

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SPECIFICATIONS:

Clone: 53-7.3

Hybridoma Production:

Immunization:

Immunogen: Mouse thymus or spleen
Donor: Balb/c mouse thymus or spleen

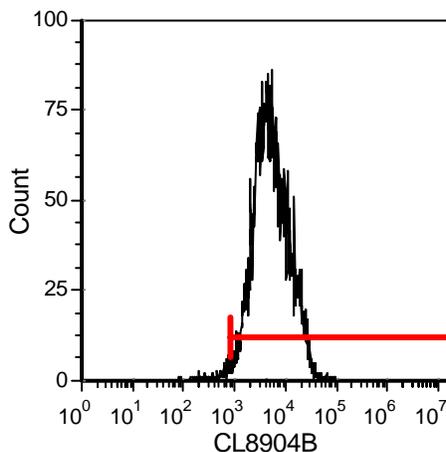
Specificity: Mouse/Human CD5 transmembrane glycoprotein

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Cell Concentration: 1×10^6 cells per test
Antibody Concentration Used: $0.5 \mu\text{g}/10^6$ cells
Secondary Antibody Used: Streptavidin-FITC (CLCSA1001) 1:500 dil.

<u>Cell Source</u>	<u>Percentage of cell stained above control:</u>
Thymus	98.38%
Spleen	39.19%
Bone Marrow	3.66%



Cell Source: Thymus

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 Lym - 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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