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Produktinformation



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Diagnostik & molekulare Diagnostik



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Zuschläge

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

**Anti-Mouse CD4 (L3/T4)
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL012A	Ascites	0.5 ml	NA	CLCR2B00
CL012AP	Purified	250 µg	1.0 mg/ml	CLCR2B00
CL012NA	No Azide	1 mg	1.0 mg/ml	CLCR2B00
CL012LE	Low Endotoxin	500 µg	1.0 mg/ml	CLCR2B00
CL012B/-3	Biotin	100 µg / 300 µg	0.1 mg/ml	CLCR2B15
CL012F/-3	FITC	100 µg / 300 µg	0.1 mg/ml	CLCR2B01
CL012PE/-3	PE	50 µg / 300 µg	0.1 mg/ml	CLCR2B04
CL012PE-CY7	PE-Cy7	100 µg	0.1 mg/ml	N/A
CL012APC	APC	100 µg	0.1 mg/ml	CLCR2B05

Isotype: Rat IgG_{2b}

DESCRIPTION:

The CD4 (L3/T4) antigen is thought to be the murine equivalent of the human Leu3/OKT4 antigen. This T cell surface molecule appears to be expressed by the helper/inducer subset of murine T cells and by delayed hypersensitivity T cells but not by cytotoxic T cells or their precursors. CD4 (L3/T4) and CD8a (Ly 2) have been shown to be present on mutually exclusive T cells in the peripheral lymphoid organs but the thymus contains cells expressing both CD4 (L3/T4) and CD8a (Ly 2).

Cedarlane's anti-mouse CD4 (L3/T4) mAb binds to approximately 85% of mouse thymocytes, 20% splenocytes, 50% lymph node cells, and a small number of bone marrow cells. It detects a protein of approximately 52 kDa on SDS-PAGE "Western Blots" (from Con A blast cell membranes) and is therefore similar to a well characterized human Leu3/T4 antigen (4).

PRESENTATION:

Ascites: 0.5 ml Lyophilized. Reconstitute with distilled H₂O.

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.

LE: Purified Ig buffered in PBS, no preservative, 0.2µm sterile filtered. (Purified from cell culture supernatant via Protein G Chromatography)

Biotin, FITC, PE and PE-Cy7: Biotin/FITC/PE/PE-Cy7 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.

No Azide: Purified Ig buffered in PBS, no preservative, 0.2µm sterile filtered.

STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE **PE and PE-Cy7** conjugates. For long term storage (**Purified, LE, No Azide, Biotin, 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 191.1.2

Hybridoma Production:

Immunization: Murine thymocytes
Donor: (LOU x DA) F1 rats
Fusion Partner: Y3/Ag 1.2.3

Specificity: Mouse CD4 (L3/T4)

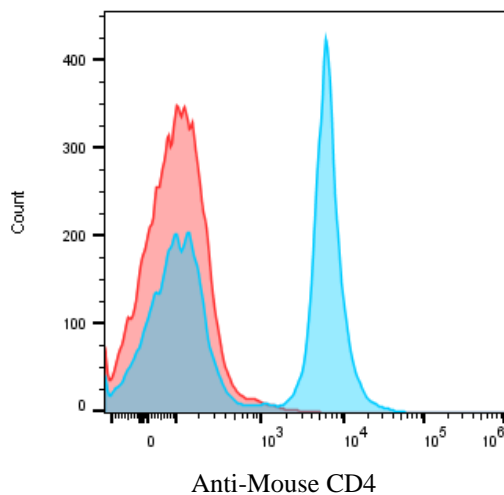
TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: C57/BL6
Cell Concentration: 1x10⁶ cells per test
Antibody Concentration Used: 0.5 µg/10⁶ cells

<u>Cell Source</u>	<u>Percentage of cells stained above control:</u>
Thymus	93.9%
Splenic T Cells*	57.8%

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



Cell Source: Splenic T cells

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) Cobbold S.P., Jayasuriya A., Nash A., Prospero T.D., & Waldmann H., (1984) Nature. Therapy with monoclonal antibodies by elimination of T cell subsets in vivo. 312, 5994, 548-551.
- 2) Cobbold S.P., Martin G., Lovat P.C., & Waldmann H., 8th International Conference on Lymphatic Tissues and Germinal Centres. Plenum Press (Ed. Klaus G.) in press (1984) Immunosuppression with monoclonal antibodies - rules for effective serotherapy.
- 3) Agel N.M., Clark M., Cobbold S.P. & Waldmann H. (1984) J. Immunol. Methods. Immunohistological Screening in the selection of monoclonal antibodies: the use of isotype specific antiglobulins. 69, 207-214.
- 4) Dialynas D.P., *et al.* (1983) J. of Immunol. Characterization of the murine T cell surface antigen designated L3/T4, identified by monoclonal antibody GK1.5. Similarity of L3/T4 to human Leu3/T4 molecule. U131U, 2445-2451.
- 5) Mueller, R. *et al.* (1997) J. of Immunol. 159: 1599-1603. IL-4 Expression by Grafts from Transgenic Mice Fails to Prevent Allograft Rejection.

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