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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Technically
Speaking

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	0.5ml	NA	CLCR2B00
CL012AP	Purified	250ug	1.0 mg/ml	CLCR2B00
CL012NA	Purified	1mg	1.0 mg/ml	CLCR2B00
CL012B	Biotin	100ug	0.1 mg/ml	CLCR2B15
CL012B-3	Biotin	300ug	0.1 mg/ml	CLCR2B15
CL012F	FITC	100ug	0.1 mg/ml	CLCR2B01
CL012F-3	FITC	300ug	0.1 mg/ml	CLCR2B01
CL012PE	PE	50ug	0.1 mg/ml	CLCR2B04
CL012PE-3	PE	300ug	0.1 mg/ml	CLCR2B04

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).

Applications: flow cytometry.

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.

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

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registered company.

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

4410 Paletta Court, Burlington, ON L7L 5R2 ph: (289) 288-0001, fax: (289) 288-0020
e-mail: general@cedarlanelabs.com

In the USA: Toll Free: 1-800-721-1644

1210 Turrentine Street, Burlington, NC 27215 ph: (336) 513-5135, fax: (336) 513-5138
e-mail: service@cedarlanelabs.com

STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE PE conjugates. For long term storage (**Purified, Biotin, FITC, No Azide**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

SPECIFICATIONS:

Clone: YTS 191.1.2

Hybridoma Production:

Immunization: Immunogen: 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: 0.1 µg/10⁶ cells

Cell Source

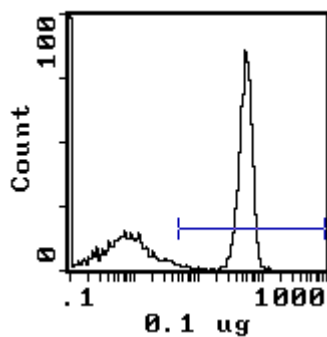
Thymus

Splenic T Cells*

Percentage of cells stained above control:

95.7%

56.7%



Cell Source: Thymus

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

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.**

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