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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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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-Rat RT1.A
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL007A	Ascites	0.5ml	NA	CLCMG100
CL007AP	Purified	250µg	1.0 mg/ml	CLCMG100
CL007AP-2	Purified	500µg	1.0 mg/ml	CLCMG100
CL007NA	Purified	1.0ml	1.0 mg/ml	CLCMG100
CL007B	Biotin	100µg	0.1 mg/ml	CLCMG115
CL007B-5	Biotin	500µg	0.1 mg/ml	CLCMG115
CL007F	FITC	100µg	0.1 mg/ml	CLCMG101
CL007F-5	FITC	500µg	0.1 mg/ml	CLCMG101

Isotype: Mouse IgG1

DESCRIPTION:

Cedarlane's anti-rat RT1.A monoclonal antibody recognizes a monomorphic determinant of rat Class I MHC antigen (RT1.A) and thus reacts with all rat strains tested including AO(RT1^u), DA (RT1^a), LEW (RT1^l) and PVG (RT1^c). However, quantitative measurements suggest that only a subfraction of the total Class I molecules are recognized (2). CL007F labels all peripheral lymphocytes but only a subfraction of thymocytes. It may be that the weakly labeled cells do in fact express some OX-18 antigenic determinants but there is clearly a major quantitative difference amongst thymocytes. This monoclonal used in tissue sections preferentially labels lymphoid cells in the medulla of the thymus including those cells with the marker phenotype of mature T lymphocytes. (2).

PRESENTATION:

Ascites: Lyophilized, **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 and **FITC:** Biotin/FITC 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:

Store **Ascites** at -20°C. For all other formats, store at 4°C. For long term storage (**Purified, Biotin FITC** and **No Azide**), 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.

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

SPECIFICATIONS:

Clone: MRC OX-18

Hybridoma Production:

Immunization: Immunogen: rat spleen membrane glycoproteins
depleted of Ia-A antigens
Donor: BALB/c spleen

Fusion Partner: X63 Ag8.653

Specificity: Rat RT1.A

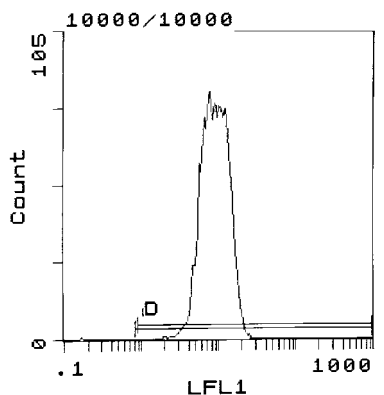
TEST RESULTS:

Rat Strain: Buffalo/Wister Rat

Cell Concentration: 1×10^6 cells per test

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

<u>Cell Source</u>	<u>Percentage of cells stained above control:</u>
Thymus	32.0%
Spleen	99.8%
Lymph Node	99.8%



CL007F
Cell Source: Spleen

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. Kearny, J.F., Radbruch, A., Leisegang, B., and K. Rajewsky. (1979) A New Mouse Myeloma Cell Line That has lost Immunoglobulin Expression but Permits the Construction of Antibody-Secreting Hybrid Cell Lines. *J. Immunol.* 123, 1548-1550.
2. Fukumoto, T., McMaster, W.R. and A.F Williams. (1982) Mouse monoclonal antibodies against rat major histocompatibility antigens. Two Ia antigens and expression of Ia and Class I antigens in rat thymus. *Eur. J. Immunol.* 12, 237-243.
3. Barclay, A.N. (1981) Different reticular elements in rat lymphoid tissue identified by localization of Ia, Thy-1 and MRC OX-2 antigens. *Immunology.* 42, 593-600.

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