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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.

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An ISO 9001:2000 and ISO 13485:2003
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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

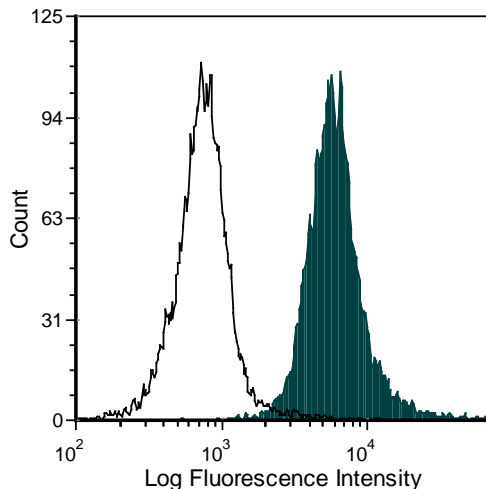
TEST RESULTS:

Rat Strain: Fischer

Cell Concentration: 1x10⁶ cells per test

Antibody Concentration Used: 1.0 µg/10⁶ cells

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



Fischer rat splenocytes were stained with anti-RT1.A (clone: OX-18) (filled histogram) or mouse IgG1, □ isotype control (open histogram).

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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