



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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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
<b>CL007A</b>	Ascites	0.5ml	NA	CLCMG100
<b>CL007AP</b>	Purified	250µg	1.0 mg/ml	CLCMG100
<b>CL007AP-2</b>	Purified	500µg	1.0 mg/ml	CLCMG100
<b>CL007NA</b>	Purified	1.0ml	1.0 mg/ml	CLCMG100
<b>CL007B</b>	Biotin	100µg	0.1 mg/ml	CLCMG115
<b>CL007B-5</b>	Biotin	500µg	0.1 mg/ml	CLCMG115
<b>CL007F</b>	FITC	100µg	0.1 mg/ml	CLCMG101
<b>CL007F-5</b>	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<sup>u</sup>), DA (RT1<sup>a</sup>), LEW (RT1<sup>l</sup>) and PVG (RT1<sup>c</sup>). 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% NaN<sub>3</sub>. (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% NaN<sub>3</sub> 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.

Visit our website for your local distributor.

**CEDARLANE**<sup>®</sup>



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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

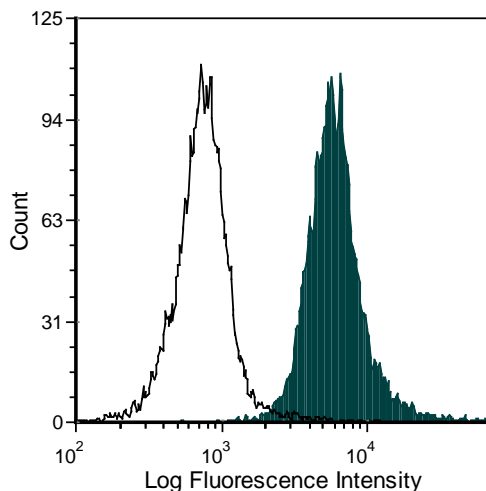
Cell Concentration:  $1 \times 10^6$  cells per test

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

Cell Source

Percentage of cells stained above control:

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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