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

**Anti-Rat RT1.B
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL010A	Ascites	0.5ml	NA	CLCMG100
CL010AP	Purified	250µg	1.0 mg/ml	CLCMG100
CL010AP-2	Purified	500µg	1.0 mg/ml	CLCMG100
CL010NA	Purified	1.0ml	1.0mg/ml	CLCMG100
CL010B	Biotin	100µg	0.1 mg/ml	CLCMG115
CL010B-5	Biotin	500µg	0.1mg/ml	CLCMG115
CL010F	FITC	100µg	0.1 mg/ml	CLCMG101
CL010F-5	FITC	500µg	0.1mg/ml	CLCMG101
CL010PE	PE	50µg	0.1 mg/ml	CLCMG104
CL010PE-4	PE	200µg	0.1mg/ml	CLCMG104

Isotype: Mouse IgG₁

DESCRIPTION:

Cedarlane's anti-rat RT1.B monoclonal antibody recognizes Ia from all rat strains tested. It labels a monomorphic determinant of the rat Ia antigen present on the majority of peripheral B lymphocytes, dendritic cells, some macrophages, and certain epithelial cells (2,3,4) but not peripheral T lymphocytes. (4) This antibody also cross reacts with murine Ia antigens (particularly with k and s haplotypes). Analysis of recombinant strains shows that the determinant maps to the I-A region of the mouse MHC (1,2) and correlates with mouse Ia specificity 17 or 18. Thus, the determinant recognized by CL010PE is polymorphic in the mouse. This antibody may be useful for recognizing the rat Ia antigen and can be coupled to Sepharose 4B for purification of rat Ia antigen by antibody affinity chromatography (1).

PRESENTATION:

Ascites: Lyophilized, reconstitute in 0.5 ml of de-ionized water.

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.

STORAGE/STABILITY:

Store Ascited at -20°C. For all other formats, store at 4°C. DO NOT FREEZE PE conjugates. For long term storage (Ascites, Purified, Biotin and 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.

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-6

Hybridoma Production:

Immunization: Immunogen: rat thymocyte membrane glycoprotein

Donor: BALB/c spleen

Fusion Partner: P3-NS1-1-AG4 (NS1/1)

Specificity Rat RT1.B (Rat Ia-non-polymorphic)

Strains Tested: Fischer, Wistar, Buffalo

Positive: Fischer, Wistar, Buffalo

Negative: None

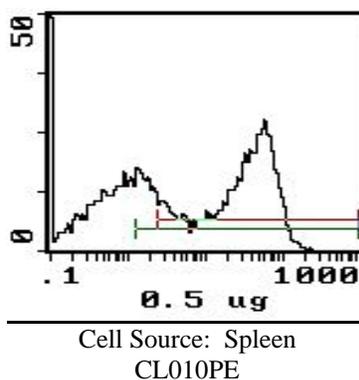
TEST RESULTS:

Rat Strain: Fischer

Cell Concentration : 1×10^6 cells per test

Antibody Concentration Used: $0.5 \mu\text{g}/10^6$ cells

<u>Cell Source</u>	<u>Percentage of cells stained above control:</u>
Thymus	55.2%
Spleen	30.9%
Lymph Node	17.7%



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) McMaster, W.R. and A.F. Williams. (1979) Identification of Ia glycoproteins in rat thymus and purification from rat spleen. Eur. J. Immunol. 9, 426-433.
- 2) Barclay, A.N. (1981) The localization of populations of lymphocytes defined by monoclonal antibodies in rat lymphoid tissues. Immunology. 42, 593-600.
- 3) Barclay, A.N. and G. Mayrhofer. (1981) Bone Marrow origin of Ia-positive cells in the medulla of rat thymus. J. Exp. Med. 153, 1666-1671.
- 4) Barclay, A.N. (1981) Different reticular elements in rat lymphoid tissue identified by localization of Ia, Thy-1 and MRC OX-2 antigens. Immunology. 44, 727-736.

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