SZABO SCANDIC

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# Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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siehe unsere Liefer- und Versandbedingungen

## Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
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# TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

*Please contact CEDARLANE® for lot specific information.*

## Purified Anti-Rat RT1.B$^{u}$ Monoclonal Antibody

**CL008AP**
**CL008AP-2**
**LOT: 0821**

**DESCRIPTION:**

Cedarlane's purified anti-rat RT1.B$^{u}$ monoclonal antibody recognizes a polymorphic determinant on rat Ia present on Lewis, Wistar, and AO rat strains (although it is apparently expressed in lower amounts in AO rats) but not BN, DA, or PVG/c strains (1,2). This antibody also cross-reacts with mouse strains (MHC haplotypes b and s ) and analysis of recombinant mouse strains shows that the determinant maps to the I-A region and correlates with mouse Ia specificity 9 (1). CL008AP recognizes Ia antigens on approximately 18% of thymocytes but does not significantly label the majority of peripheral T lymphocytes (1,3,4). Thus, CL008AP is particularly useful for distinguishing Ia positive cells from different rat strains and has been used in the recognition of cells of donor origin in bone marrow reconstituted radiation chimeras (3,4).

**PRESENTATION:**

250 µg (CL008AP) or 500 µg (CL008AP-2) purified Ig buffered in PBS and 0.02% $NaN_3$

**STORAGE/STABILITY:**

Store at 4°C. For long term storage, aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

For more information or to place an order please contact...

CEDARLANE® LABORATORIES LIMITED

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*in North America*

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**SPECIFICATIONS:**

Clone: MRC OX-3

Hybridoma Production:

Immunization: Immunogen: Rat thymocyte membrane glycoprotein
Donor: BALB/c spleen

Fusion Partner: P3-NS1-1-Ag4 (NS1/1)

Specificity: Rat RT1.$B^u$ ( Rat Ia-polymorphic)

Ig Class: Mouse $IgG_1$

Format: Purified Ig buffered in PBS and 0.02% NaN3. (Purified from ascitic fluid via Protein G Chromatography)

Antibody Concentration: 1.0 mg/ml

**FLOW CYTOMETRY ANALYSIS:**

Method:

1. Prepare cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte®-Rat cell separation media (CL5040).
2. Wash 2 times.
3. Resuspend the cells to a concentration of $2x10^7$ cells/ml in media A Add 50 µl of this suspension to each tube(each tube will then contain $1x10^6$ cells, representing 1 test).
4. To each tube add 0.02-0.05 µg* of **CL008AP or CL008AP-2**.
5. Vortex the tubes to ensure thorough mixing of antibody and cells.
6. Incubate the tubes for 30 minutes at 4°C.
7. Wash 2 times at 4°C.
8. Add 100 µl of secondary antibody **CLCC30201** (FITC goat anti-mouse IgG (H+L)) at 1:500 dilution.
9. Incubate tubes at 4°C for 30-60 minutes.
   (It is recommended that the tubes are protected from light since most fluorochromes are light sensitive).
10. Wash 2 times at 4°C in Media B.
11. Resuspend the cell pellet in 50 µl ice cold Media B.
12. Transfer to suitable tubes for flow cytometric analysis containing 15 µl of propidium iodide at 0.5 mg/ml in phosphate buffered saline. (This stains dead cells by intercalating DNA).

Media:

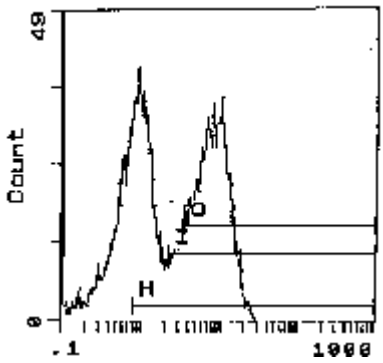
A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 µl of 2 M sodium azide in 100 mls).
B. Phosphate buffered saline (pH 7.2) + 0.5% bovine serum albumin + sodium azide (100 µl of 2 M sodium azide in 100 mls).

Results:

Tissue Distribution by Flow Cytometry Ana.lysis:

Rat Strain: Fischer
Cell Concentration: $1x10^6$ cells
Antibody Concentration Used: 0.02 µg/$10^6$ cells,
spleen @ 0.05 µg/$10^6$ cells
Isotypic Control: Mouse $IgG_1,\kappa$

| Cell Source | Percentage of cells stained above control |
|---|---|
| Thymus | 19.5% |
| Spleen | 43.2% |
| Lymph Node | 11.5% |




LFL1
Cell Source: Spleen
Percentage of cells stained above control: 43.2%

**N.B. Appropriate control samples should always be included in any labelling studies.**
*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

Strain Distribution by Flow Cytometry Analysis:

Procedure: see page 2
Cell Concentration: $1x10^6$ cells per test
Antibody Concentration Used: 0.05 µg/$10^6$ cells
Strains Tested: Wistar, Buffalo, Brown Norway, ACI, Fischer 344, Lewis
Positive: Wistar, Buffalo, Fischer 344, Lewis
Negative: Brown Norway, ACI

**REFERENCES:**

1. McMaster, W.R. and A.F. Williams. (1979) Eur. J. Immunol. 9, 426-433. Identification of Ia glycoproteins in rat thymus and purification from rat spleen.
2. McMaster, W.R. and A.F. Williams. (1979) Immunol. Rev. 47, 117-137. Monoclonal Antibodies to Ia antigens from Rat Thymus: Cross Reactions with mouse and human and use in purification of rat IA glycoproteins.
3. Barclay, A.N. and G. Mayrhofer. (1981) J. Exp. Med. 153, 1666-1671. Bone Marrow origin of Ia-positive cells in the medulla of rat thymus.
4. Barclay, A.N. (1981) Immunology. 44, 727-736. Different reticular elements in rat lymphoid tissue identified by localization of Ia, Thy 1 and MRC OX-2 antigens.

**FOR LABORATORY RESEARCH ONLY**