SZABO SCANDIC

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- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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## Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


**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

TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

*Please contact CEDARLANE® for lot specific information.*

# FITC Anti-Rat RT1.A$^c$ Monoclonal Antibody

**CL027F**
**CL027F-5**
**LOT: 2731**

**DESCRIPTION:**

Cedarlane's anti-rat RT1.A$^c$ recognizes a polymorphic determinant of the MHC class I antigen in the rat ("c" and "n" haplotypes). CL027F is an excellent antibody for labelling cells of donor or host origin in bone marrow chimeras. (1,2)

**PRESENTATION:**

100 µg (CL027F) or 500 µg (CL027F-5) FITC conjugated Ig buffered in PBS, 0.02% $NaN_3$ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

**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. Avoid prolonged exposure to light.

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

CEDARLANE® LABORATORIES LIMITED

*toll free: 1-800-268-5058*
*in North America*

**phone: (905) 878-8891 • fax: (905) 878-7800**

**5516 - 8th Line, R.R.#2, Hornby, Ontario, CANADA L0P 1E0**

or visit our website for a list of our international distributors including contact information

**website: www.cedarlanelabs.com** • e-mail: info@cedarlanelabs.com

**SPECIFICATIONS:**

Clone: MRC OX-27

Hybridoma Production:

Immunization: Immunogen: Phytohaemagglutinin Blasts
Donor: BALB/c spleen

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

Specificity: Rat RT1.$A^c$ (rat MHC Class I polymorphic)

Ig Class: Mouse $IgG_{2a}$

Format: FITC conjugated Ig buffered in PBS, 0.02% $NaN_3$ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. (Purified from ascitic fluid via Protein G Chromatography)

Antibody Concentration: 0.1 mg/ml

**FLOW CYTOMETRY ANALYSIS:**

Method:

1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte®-Rat cell separation medium (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 $1 \times 10^6$ cells, representing 1 test).
4. To each tube, add 0.5-0.2 µg***** of **CL027F or CL027F-5** per $10^6$ cells.
5. Vortex the tubes to ensure thorough mixing of antibody and cells.
6. Incubate the tubes for 30 minutes at 4°C.
   (It is recommended that the tubes are protected from light, since most fluorochromes are light sensitive.)
7. Wash 2 times at 4°C.
8. Resuspend the cell pellet in 50 µl ice cold media B.
9. Transfer to suitable tubes for flow cytometric analysis containing 15 µl of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA.

Media:

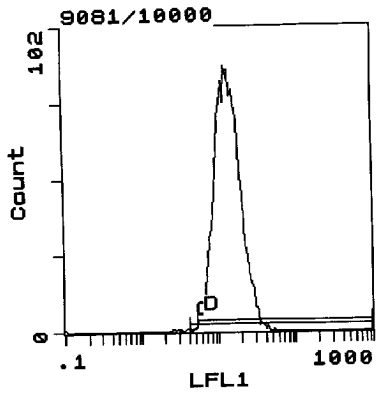
A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 µl of 2M sodium azide in 100 mls).
B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 µl of 2M sodium azide in 100 mls).

Results:

Tissue Distribution by Flow Cytometry Analysis:

Rat Strain: Brown Norway
Cell Concentration : $1x10^6$ cells per test
Antibody Concentration Used: 0.2 µg/$10^6$ cells
Isotypic Control: FITC Mouse $IgG_{2a}$

| Cell Source | Percentage of cells stained above control: |
|---|---|
| Thymus | 73.9% |
| Spleen | 99.0% |
| Lymph Node | 100% |




Cell Source: Spleen
Percentage of cells stained above control: 99.0%

**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: 0.5 µg/$10^6$ cells
Strains Tested: Wistar, Buffalo, Brown Norway, Fischer, ACI
Positive: Brown Norway
Negative: Wistar, Buffalo, Fischer, ACI

**REFERENCES:**

1) Butcher, G.W. (1987) 19: 3-21. Monoclonal antibodies specific for alloantigens of the rat. Rat Membrane Alloantigens News.

2) Jeffries, W.A. et al. (1985) J. Exp. Med. 162: 117-127. Authentic T Helper CD4 (W3/25) antigen on rat peritoneal macrophages.

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