



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- 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](https://www.linkedin.com/company/szaboscandic) 

Technically
Speaking

CEDARLANE[®]
www.cedarlanelabs.com



Conveniently Delivering You Today's Innovations
for the Science of Tomorrow™

**Anti-Rat CD8a
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL004A	Ascites	0.5ml	N/A	CLCMG2A00
CL004AP/-2	Purified	250µg/500µg	1.0 mg/ml	CLCMG2A00
CL004AP-S	Purified	50µg	1.0 mg/ml	CLCMG2A00
CL004B/-5	Biotin	100µg/500µg	0.1 mg/ml	CLCMG2A15
CL004F/-5	FITC	100µg/500µg	0.1 mg/ml	CLCMG2A01
CL004NA	No Azide	1mg	1.0 mg/ml	CLCMG2A00
CL004PE/-4	PE	50µg/200µg	0.1 mg/ml	CLCMG2A04
CL004TC	PE-Cy5	100µg	0.1 mg/ml	CLCMG106
CL004AF4	Alexa Fluor [®] 488	100µg	0.1 mg/ml	N/A

Alexa Fluor[®] is a registered trademark of Life Technologies Corporation.

Isotype Control: Mouse IgG₁

DESCRIPTION:

Cedarlane's anti-rat T cytotoxic/suppressor cell monoclonal antibody recognizes a determinant on the majority of thymocytes (90-95%), a subset of peripheral T cells, the majority of NK cells, and the granular intraepithelial leukocytes in the small intestine (1,2,3,4). The antigen recognized is a complex of surface glycoproteins of Mr 34, 39, and 76 kDa and is the rat homologue of the human CD8 and the mouse Ly 2.3 antigen (5,8). CL004 labels all peripheral T cells that are unlabeled by the CL003 (W3/25) monoclonal antibody. It labels a T cell subset which mediates the suppression of antibody formation (1) and the cytotoxic cell precursor (2). CL004 and CL003 can be used together to fractionate T cells by sorting in FACS or by rosette depletion (1,2) or can be used together to study subsets of T cells in the rat which mediate lethal graft versus host disease (7). This antibody is one of the 3 monoclonal antibodies which labels T lymphocyte populations in the rat, these being CL002AP (W3/13) which labels all T cells, as well as CL003 (W3/25) and CL004 (MRC OX-8) which label non-overlapping T cell populations. These monoclonal antibodies used in concert are being employed extensively to investigate cellular aspects of the immune response in rats and prove to be useful as markers for functionally distinct subpopulations of lymphocytes. This clone is reported to work with frozen and paraffin sections (9).

PRESENTATION:

Ascites: 0.5ml 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, FITC, PE and AF488: Biotin/FITC/PE/AF488 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.

Visit our website for your local distributor.

CEDARLANE[®]



www.cedarlanelabs.com

An ISO 9001:2000 and ISO 13485:2003
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

STORAGE/STABILITY:

Stable at 4°C. DO NOT FREEZE PE and AF488 conjugates For long term storage, aliquot and freeze unused portions at -20°C in volumes appropriate for single usage. Avoid repeated freeze thaw cycles.

SPECIFICATIONS:

Clone: MRC OX-8

Hybridoma Production:

Immunization:

Immunogen: High molecular weight rat thymocyte glycoproteins

Donor: BALB/c spleen

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

Specificity: Rat CD8a

Strain Distributions:

Strains Tested: Wistar, Buffalo, Brown Norway, Fischer 344

Positive: Wistar, Buffalo, Brown Norway, Fischer 344

Negative: none

FLOW CYTOMETRIC ANALYSIS:

Rat Strain: Wistar

Cell Concentration: 1×10^6 cells per test

Antibody Concentration: $0.1 \mu\text{g}/10^6$ cells

Cell source

Thymus

Spleen

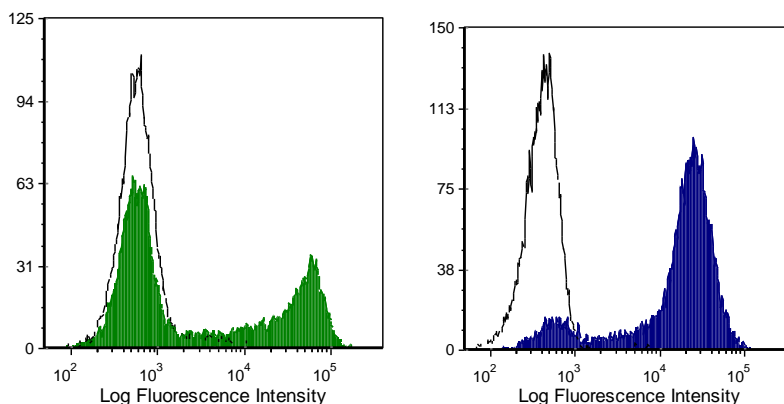
Lymph Node

Percent staining

92.6%

11.8%

23.6%



Wistar rat splenic T-cells (left) or thymocytes (right) were stained with anti-CD8a (clone: OX-8) (filled histogram) or mouse IgG1, κ isotype control (open histogram).

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.

REFERENCES:

1. Brideau, R.J., Carter, P.B., McMaster, W.R., Mason, D.W. and A.F. Williams. (1980) Eur. J. of Immunol. 10, 609-615. Two subsets of rat T lymphocytes defined with monoclonal antibodies.
2. Dallman, M.J., Mason, D.W. and M. Webb. (1982) Eur. J. Immunol. 12, 511-518. The role of host and donor cells in the rejection of skin allografts by T cell deprived rats infected with syngenic T cells.
3. Cantrell, D.A., Robins, R.A., Brooks, C.G. and R.W. Baldwin. (1982) Immunology. 45, 97-103. Phenotype of rat natural killer cells defined by monoclonal antibodies marking rat lymphocyte subsets.
4. Lyscom, N. and M.J. Brueton. (1982) Immunology. 45, 775-783. Intraepithelial lamina propria and Peyer's patch lymphocytes of the rat small intestine: isolation and characterization in terms of immunoglobulin markers and receptors for monoclonal antibodies.
5. Johnson, P., Gagnon, J., Barclay, A.N. and A.F. Williams. (1985) EMBO J. 4, 2539-2545. Purification, chain separation and sequence of the MRC OX-8 antigen, a marker of rat cytotoxic T lymphocytes.
6. Barclay, A.N. (1981) Immunology, 42, 593-600. The localization of populations of lymphocytes defined by monoclonal antibodies in rat lymphoid tissues.
7. Mason, D.W. (1981) Transplantation, 32, 22-226. Subsets of T cells in rat mediating lethal graft vs. host disease.
8. Thomas, M.L. and J.R. Green. (1983) Eur. J. Immunol. 13, 855-858. Molecular nature of the W3/25 and MRC OX-8 marker antigens for rat T lymphocytes; comparisons with mouse and human antigens.
9. Whiteland, J.L. et al (1995). Immunohistochemical detection of T cell subsets and other leukocytes in paraffin embedded rat and mouse tissues with monoclonal antibodies. J. Histochem. Cytochem. 43: 313-320.

Laboratory Reagent for Research Use Only

® is a registered trademark of Cedarlane