



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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### Anti-Rat CD43 Monoclonal Antibody

Catalogue#	Format	Size	Concentration	Isotype Control
CL002A	Ascites	0.5ml	NA	CLCMG100
CL002AP	Purified	250µg	1.0 mg/ml	CLCMG100
CL002AP-2	Purified	500µg	1.0 mg/ml	CLCMG100
CL002NA	Purified	1.0ml	1.0 mg/ml	CLCMG100
CL002B	Biotin	100µg	0.1 mg/ml	CLCMG115
CL002B-5	Biotin	500µg	0.1 mg/ml	CLCMG115
CL002F	FITC	100µg	0.1 mg/ml	CLCMG101
CL002F-5	FITC	500µg	0.1 mg/ml	CLCMG101
CL002PE	PE	50µg	0.1 mg/ml	CLCMG104
CL002PE-4	PE	200µg	0.1 mg/ml	CLCMG104

Isotype: Mouse IgG<sub>1</sub>

#### **DESCRIPTION:**

Cedarlane's anti-rat CD43 monoclonal antibody recognizes a monomorphic determinant expressed on rat thymocytes, polymorphonuclear cells, plasma cells and stem cells, but not B lymphocytes or pre-B cells (1,3). The antigen is a heavily glycosylated glycoprotein of apparent molecular weight 95 kDa and has a high content of O-linked carbohydrate structures (3). This major glycoprotein of thymocytes and T lymphocytes is referred to by several names including leukocyte sialoglycoprotein and leukosialin. The carbohydrate structures of leukosialin account for approximately 60% of its weight (2). On thymocytes, this glycoprotein is the main target for binding of peanut lectin (4). This antibody is useful for labelling T but not B lymphocytes and in studies on stem cells since pre-B cells are not labelled while the multipotential stem cell is. It may also be used in analysis of NK cells (5) and in molecular studies of the sialoglycoprotein which it recognizes.

#### **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** : 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. **DO NOT FREEZE PE**. For long term storage (**Purified, Biotin, FITC, No Azide**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

*Continued Overleaf....*

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## **SPECIFICATIONS:**

Clone: W3/13 HLK

Hybridoma Production:

Immunization: Immunogen: Rat thymocyte membrane

Immunocyte Donor: BALB/c spleen

Fusion Partner: NS1/1

Specificity: Rat CD43

## **TEST RESULTS:**

Tissue Distribution by Flow Cytometry Analysis:

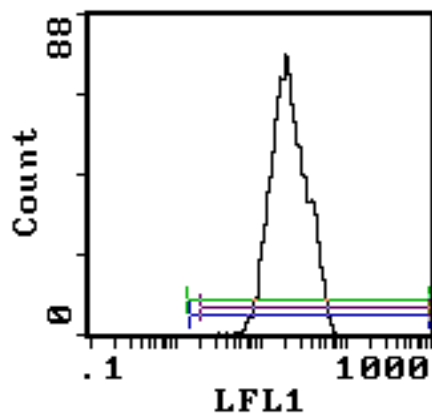
Rat Strain: Wister Rat

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

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

Secondary Antibody: FITC Goat Anti-Mouse IgG (CLCC30001)

<u>Cell Source</u>	<u>Percentage of cells stained above control:</u>
Thymus	100%
Spleen	33%
Lymph Node	58.9%



CL002AP  
Cell Source: Thymus

**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:**

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2. Dyer, M.J.S. and S.V. Hunt. (1981) J.Exp.Med. 154, 1164-1177. Characterization by surface W3/13 antigen and radiosensitivity.
3. Brown, W.R.A., Barclay, A.N., Sunderland, C.A. and A.F. Williams. (1981) Nature. 289, 456-460. Identification of glycoprotein-like molecule at the cell surface of rat thymocytes.
4. Brown, W.R.A. and A.F. Williams. (1982) Immunology. 46, 713-726. Lymphocyte cell surface glycoproteins which bind to soybean and peanut lectins.
5. Cantrell, D.A. Robins, R.A. Brooks, C.G. and R.W. Baldwin. (1982) Immunology. 45, 97-103.
6. Killeen, N., Barclay, A.N., Willis, A.C. and A.F. Williams. (1987) The EMBO J., vol.6, #13, 4029-4034. The sequence of rat leukosialin (W3/13 antigen) reveals a molecule with O-linked glycosylation of one third of its extracellular amino acids.

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