



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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**Anti-Rat Dendritic Cell (CD103)  
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
<b>CL083A</b>	Ascites	0.5 ml	N/A	CLCMG100
<b>CL083AP</b>	Purified	250 µg	1.0 mg/ml	CLCMG100
<b>CL083F</b>	FITC	100 µg	0.1 mg/ml	CLCMG101
<b>CL083F-5</b>	Bulk FITC	500 µg	0.1 mg/ml	CLCMG101

Isotype: Mouse IgG1

**DESCRIPTION:**

Cedarlane's OX-62 monoclonal antibody (generally referred to as CD103) was raised against density gradient-enriched rat veiled (dendritic) cells obtained from lymph. The antigen recognized by CL083 is expressed at low to moderate levels by a subset of spleen, thymus and bone marrow dendritic cells.

The CL083 antigen has the biochemical characteristics of an integrin (CL083 recognizes the  $\alpha$ -like subunit) as determined by SDS-PAGE. This monoclonal antibody is useful for cell purification, delineating lineage relationships among cells with dendritic morphology and for molecular studies.

The CL083 clone has been use in flow cytometry, immunohistochemistry, immunoprecipitation and cell surface radioiodination.

**PRESENTATION:**

**Purified:** Purified IgG buffered in PBS and 0.02% NaN<sub>3</sub>. (Purified from ascitic fluid via Protein G Chromatography).

**FITC conjugate 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.

**STORAGE/STABILITY:**

For all formats, store at 4°C. For long term storage (**Ascites, Purified, FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

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## **SPECIFICATIONS:**

Clone: MRC OX-62

Hybridoma Production: Spleen cells from BALB/c mice immunized with rat PVG density gradient-enriched veiled cells (obtained from the cannulated thoracic duct of mesenteric lymphadenectomized rats) were fused with NSO myeloma cells.

Specificity: Rat lymphoid and non lymphoid dendritic cells

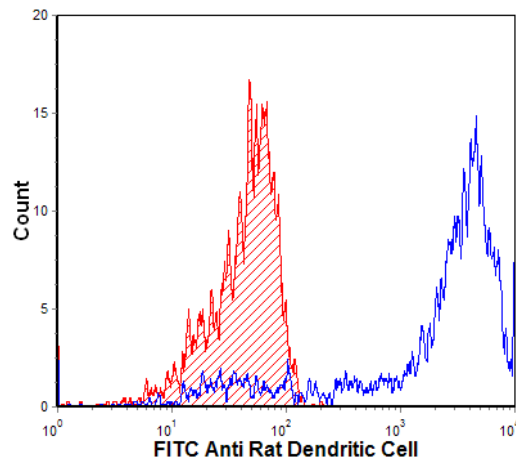
## **TEST RESULTS:**

Tissue Distribution by Flow Cytometry Analysis:

Rat Strain: Wistar

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

Antibody Concentration Used:  $2.0 \mu\text{g}/10^6$  cells



Cell Source: Wistar rat dendritic cells from thymus

Percentage of cells stained above control: 82.8%

**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. Brenan, M. and Puklavec, M. (1992) The MRC OX-62 Antigen: A Useful Marker in the Purification of Rat Veiled Cells with the Biochemical Properties of an Integrin. *J. Exp. Med. Vol. 175*, 1457-1465.
2. Chen-Woan, M., Delaney, C.P., Fornier, V., Wakizaka, Y., Murase, N., Fung, J., Starzl, T.E. and Demetris, A.J. (1995) A new protocol for the propagation of dendritic cells from rat bone marrow using recombinant GM-CSF, and their quantification using the mAb OX-62. *J. Immunol. Methods 178*, 157-171.
3. Josien, R., Heslan, M., Soulillou, J.-P. and Cuturi M.-C. (1997) Rat Spleen Dendritic Cells Express Natural Killer Cell Receptor Protein 1 (NKR-P1) and Have Cytotoxicity Activity to Select Targets via a  $\text{Ca}^{2+}$ -dependant Mechanisms. *J. Exp. Med. Vol. 186*, 467-472.
4. Talmor, M., Mirza, A., Turley, S., Mellman, I., Hoffman L.A. and Steinman, R.M. (1998) Generation of large numbers of immature and mature dendritic cells from rat bone marrow cultures. *Eur. J. Immunol. 28*, 811-817.

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