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Diagnostik & molekulare Diagnostik



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Technically
Speaking

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

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

Catalogue#	Format	Size	Concentration	Isotype Control
CL083A	Ascites	0.5 ml	N/A	CLCMG100
CL083AP	Purified	250 µg	1.0 mg/ml	CLCMG100
CL083F	FITC	100 µg	0.1 mg/ml	CLCMG101
CL083F-5	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 α -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% NaN₃. (Purified from ascitic fluid via Protein G Chromatography).

FITC conjugate 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.

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

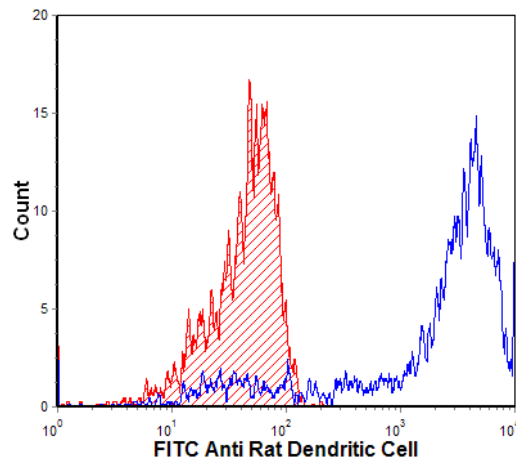
TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Rat Strain: Wistar

Cell Concentration : 1×10^6 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:

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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 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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