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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
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Anti-Rat CD200 (OX-2) Monoclonal Antibody

Catalogue#	Format	Size	Concentration	Isotype Control
CL082A	Ascites	0.5 mL	N/A	CLCMG100
CL082AP	Purified	250µg	1.0 mg/ml	CLCMG100
CL082B/-5	Biotin	100µg/500µg	0.1 mg/ml	CLCMG115
CL082F/-5	FITC	100µg/500µg	0.1 mg/ml	CLCMG101
CL082PE/-4	PE	50µg/200µg	0.1 mg/ml	CLCMG104

Isotype: Mouse IgG1

DESCRIPTION:

Cedarlane's mouse anti-rat CD200 (OX-2) monoclonal antibody recognizes a monomorphic determinant present on rat thymocytes, brain, follicular dendritic cells in lymphoid organs, vascular endothelium, and at low levels on some smooth muscle and B lymphocytes. The purified brain and thymocyte OX-2 antigens are glycoproteins with apparent M.W. of 41 KDa and 47 KDa respectively. The amino acid composition of brain and thymocyte OX-2 antigen are very similar and are antigenically similar to those found on other tissues. The carbohydrate composition shows that this antigen is highly glycosylated (brain OX-2 - 24% and thymocyte OX-2 - 33% carbohydrate by weight).

The OX-2 antigen shows similarities to the Thy-1 antigen in its odd pattern of tissue distribution, carbohydrate composition and characteristic migration on SDS-PAGE. Also, the OX-2 antigens, like Thy-1 antigens, have homologies with immunoglobulin domains; the overall structure of OX-2 is similar to an Ig light chain or the T cell receptor β chain. Because of its distribution, it is thought to play a role in mediating recognition events at cell surfaces.

This clone can be used in flow cytometry, affinity chromatography, immunohistochemistry and in binding assays. It is also useful for labeling the follicular dendritic cells thought to be involved in the generation of B cell memory as it does not label the Ia-positive dendritic cells present in the T-dependent areas of lymphoid organs.

PRESENTATION:

Ascites: Lyophilized.
Purified: Purified IgG buffered in PBS and 0.02% NaN_3. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.
Biotin, FITC and **PE**: Biotin/FITC/PE conjugated IgG 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.

In CANADA: Toll Free: 1-800-268-5058
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STORAGE/STABILITY:

Store **Ascites** at -20°C. For all other formats, store at 4°C. DO NOT FREEZE **PE** conjugates. For long term storage (**Purified, Biotin** and **FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

SPECIFICATIONS:

Clone: OX-2

Hybridoma Production: Spleen cells from BALB/c mice immunized with rat thymocyte membrane glycoproteins were fused with mouse NS-1 myeloma cells.

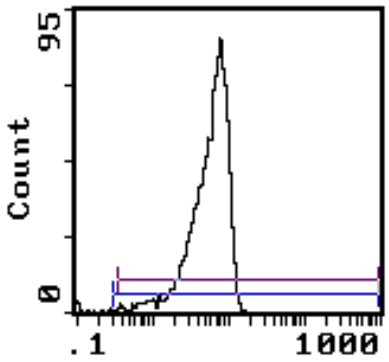
Specificity: Rat thymocytes, brain, follicular dendritic cells in lymphoid organs, vascular endothelium, and at low levels on some smooth muscle and B lymphocytes

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Rat Strain: Wistar
Cell Concentration: $1x10^6$ cells per test
Antibody Concentration Used: 0.5 µg/10^6 cells

Cell Source	Percentage of cells stained above control:
Thymus	98.7%
Spleen	35.7%
Lymph Node	39.9%



Anti-Rat CD200

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:

1) McMaster, Robert W. and Williams, Alan F. (1979) *Eur. J. Immunol. 9*:426-433. Identification of Ia glycoproteins in rat thymus and purification from rat spleen.
2) Barclay, A. Neil. (1981) *Immunology 44*:727-736. Different reticular elements in rat lymphoid tissues identified by localization of Ia, Thy-1 and MRC OX-2 antigens.
3) Barclay, A. Neil and Ward, Harry A. (1982) *Eur. J. Immunol. 129*:447-458. Purification and Chemical Characterization of Membrane Glycoproteins from Rat Thymocytes and Brain, Recognized by Monoclonal Antibody MRC OX-2.
4) Clark, Melanie J., Gagnon, Jean, Williams, Alan F. and Barclay, A. Neil. (1985) *EMBO Journal 4*:113-118. MRC OX-2 antigen: a lymphoid/neuronal membrane glycoprotein with a structure like a single immunoglobulin light chain.
5) Barclay, A. Neil. (1981) *Immunology 42*:593-600. The localization of populations of lymphocytes defined by monoclonal antibodies in rat lymphoid tissues.

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