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Speaking

CEDARLANE[®]
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Conveniently Delivering You Today's Innovations
for the Science of Tomorrow™

**Anti-Mouse CD200 (OX2)
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL8995AP	Purified	250µg	1.0 mg/ml	CLCR2A00
CL8995B	Biotin	100µg	0.1 mg/ml	CLCR2A15
CL8995F	FITC	100µg	0.1 mg/ml	CLCR2A01
CL8995PE	PE	50µg	0.1 mg/ml	CLCR2A04
CL8995AF4	Alexa Fluor [®] 488	100 µg	0.1 mg/ml	N/A

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

Isotype: Rat IgG2a

DESCRIPTION:

Cedarlane's anti-mouse CD200 monoclonal antibody reacts with CD200 (OX2), a highly conserved type I membrane glycoprotein that is expressed on a variety of cell types including thymocytes, some T cells, endothelial and follicular dendritic cells, and brain tissue (neurons). CD200 consists of 2 immunoglobulin (Ig) domains, a C-terminus transmembrane domain and a small cytoplasmic domain (19 aa) which lacks signaling motifs.

CD200 is the ligand for CD200 receptor (CD200R), which is very similar in structure to CD200 except that it has a larger cytoplasmic domain (67 aa), and its expression is restricted to myeloid-derived antigen presenting cells (APC's) and certain populations of T cells. Blocking of CD200/CD200R interactions decreases myeloid cell inhibitory thresholds which results in enhanced immune activation.

This clone is suitable for use in flow cytometry, immunohistochemistry (frozen sections) and ELISA.

PRESENTATION:

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.

STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE **PE and AF488** 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.

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registered company.

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SPECIFICATIONS:

Clone: OX-90

Hybridoma Production:

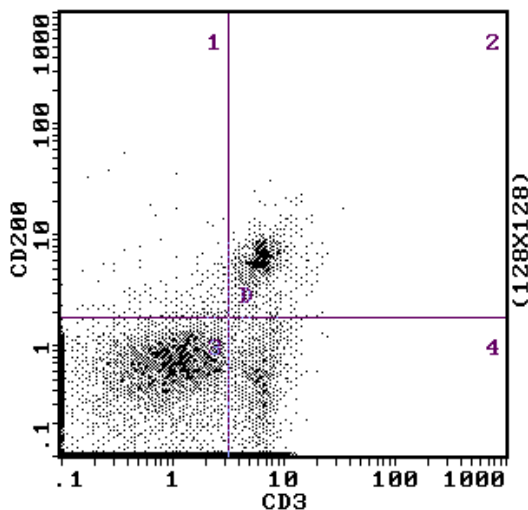
Immunization: Immunogen: mouse CD200-rat CD4 fusion protein
Donor: Rat spleen
Fusion Partner: Y3 myeloma

Specificity: Mouse CD200 (OX2)

TEST RESULTS:

Mouse Strain: Balb/c

Cell Concentration: 1×10^6 cells per test



Mouse CD200

Cell Source: Mouse spleen stained with CD200 (CL8995AP-PE) and CD3 (CL7202F)

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) Hoek, R. M., *et al.* (2000). Down-regulation of the macrophage lineage through interaction with OX2 (CD200). *Science*, **290**: 1768-1771.
- 2) Cameron, C.M., *et al.* (2004). Myxoma virus M141R expresses a viral CD200 (vOX-2) that is responsible for down-regulation of macrophage and T-cell activation in vivo. *J. of Virol.* **79**(10): 6052-6067.
- 3) Gorczynski, R., *et al.* (2004). CD200 is a ligand for all members of the CD200R family of immunoregulatory molecules. *J. of Immunol.* **172**: 7744-7749
- 4) Rosenblum, M.D., *et al.* (2004). CD200 is a novel p53-target gene involved in apoptosis-associated immune tolerance. *Blood*, **103**(7): 2691-2698.
- 5) Zhang, S., *et al.* (2004). Molecular mechanisms of CD200 inhibition of mast cell activation. *J. of Immunol.* **173**: 6786-6793.
- 6) Wright, G.J. *et al.* (2001). The unusual distribution of the neuronal/lymphoid cell surface CD200 (OX2) glycoprotein is conserved in humans. *Immunology* **102** 173-179.

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