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

Anti-Mouse CD200R Monoclonal Antibody

Catalogue#	Format	Size	Concentration	Isotype Control
CL8996AP	Purified	250µg	1.0 mg/ml	CLCR2A00
CL8996B	Biotin	100µg	0.1 mg/ml	CLCR2A15
CL8996F	FITC	100µg	0.1 mg/ml	CLCR2A01
CL8996PE	PE	50µg	0.1 mg/ml	CLCR2A04

Isotype: Rat IgG2a

DESCRIPTION:

Cedarlane's anti-mouse CD200R monoclonal antibody reacts with CD200R, a highly conserved type I membrane glycoprotein that is expressed on a variety of cell types from the myeloid/monocytic lineage, including macrophages, dendritic cells, basophils, mast cells and polarized Th2 cells. CD200R is very similar in structure to CD200, except that it has a larger cytoplasmic domain (67 aa).

CD200R is also referred to as CD200R1. Three homologues designated CD200R2 (CD200RLc), CD200R3 (CD200RLb) and CD200R4 (CD200RLa) have also been described, each containing a short (15aa) cytoplasmic tail lacking putative ITIM motifs. It is thought that CD200R1 acts as an inhibitory receptor in contrast to CD200R2-4, which appear to be activating receptors. CD200R1-4 show variable expression in different tissues.

CD200 is the ligand for CD200R, and CD200/CD200R interactions are thought to play an important role in autoimmune disease and transplant rejection.

This clone is suitable for use in flow cytometry.

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 and PE: Biotin/FITC/PE 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** 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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SPECIFICATIONS:

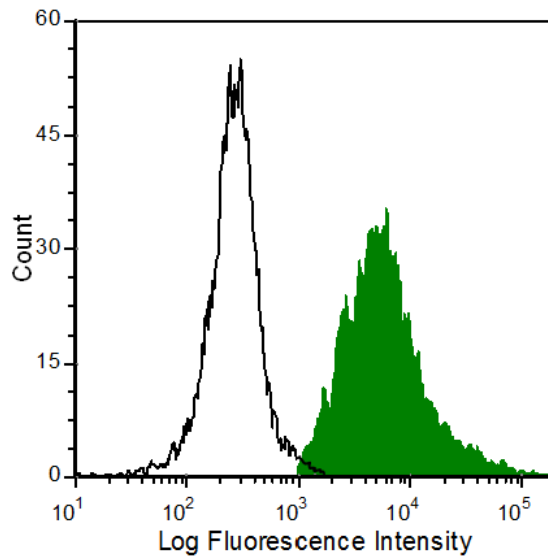
Clone: OX-110

Hybridoma Production:

Immunization: Immunogen: Soluble recombinant mouse CD200R
Donor: DA rat splenocytes

Fusion Partner: Y3.Ag.1.2.3 myeloma

Specificity: Mouse CD200R



Thioglycolate-elicited Balb/c mouse peritoneal macrophages were stained with anti-CD200R (clone: OX110) (filled histogram) or rat IgG1 isotype control (open histogram).

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) Rosenblum, M.D., *et al.* 2005. Characterization of CD200-Receptor expression in the murine epidermis. *J. Invest. Dermatol.* **125**: 1130-1138.
 - 2) Wright, G.J. *et al.* 2000. Lymphoid/neuronal cell surface OX2 glycoprotein recognizes a novel receptor on macrophages implicated in the control of their function. *Immunity*, **13**: 233-242.
 - 3) Gorczynski, R.M., *et al.* 2004. Structural and functional heterogeneity in the CD200R family of immunoregulatory molecules and their expression at the fetomaternal interface. *AJRI*, **52**: 147-163
 - 4) Wright, G.J., *et al.* 2003. Characterization of the CD200 receptor family in mice and humans and their interactions with CD200. *J. of Immunol.* **171**: 3034-3046.
 - 5) Deckert, M., *et al.* 2006. Regulation of microglial cell responses in murine *Toxoplasma* encephalitis by CD200/CD200 receptor interaction. *Acta. Neuropathol.*, **111**:548-558.
 - 6) Hatherly, D., *et al.* 2005. Recombinant CD200 protein does not bind activating proteins closely related to CD200 receptor. *J. of Immunol.* **175**: 2469-2474.
- Voulgaraki, D., *et al.* 2005. Multivalent recombinant proteins for probing functions of leucocyte surface proteins such as the CD200 receptor. *Immunology*, **115**: 337-346.

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