SONY

Product Data Sheet

PE/Cyanine7 anti-mouse CD200 (OX2)

Catalog # / Size: 1219085 / 25 µg
1219090 / 100 µg

Clone: OX-90

Isotype: Rat IgG2a, κ

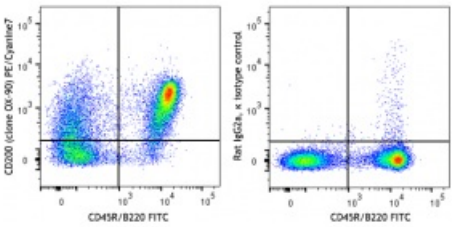
Immunogen: Soluble fusion protein of the extracellular region of mouse OX-2 antigen with domains 3 and 4 of rat CD4 fusion protein.

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2 mg/mL



C57BL/6 mouse splenocytes were stained with CD45R/B220 FITC and CD200 (clone OX-90) PE/Cyanine7 (left), or rat IgG2a, ? isotype control (right).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is =0.25 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Description: CD200 (OX-2 antigen) is a type-1 membrane glycoprotein containing two extracellular Ig-like domains. CD200 a highly conserved type I membrane glycoprotein that is expressed on a variety of cell types including thymocytes, some T cells, endothelial and follicular dendritc cells, B cells, and brain tissue (neurons); but not on NK cells, granulocytes, monocytes, or macrophages. CD200 costimulates T cell proliferation. It may regulate myeloid cell activity in a variety of tissues. CD200 is the ligand for CD200 receptor (CD200R). The CD200 Receptor is restricted to myeloid cells, and it is believed that its engagement with CD200 results in inhibition and/or downregulation of myeloid cell activity. Blocking of CD200/CD200R interactions decreases myeloid cell inhibitory thresholds which results in enhanced immune activation.

Antigen References:

1. Hoek RM, *et al.* 2000. *Science* 290:1768.
2. Gorczynski R, *et al.* 2004. *J. of Immunol.* 172:7744.
3. Gorczynski L, *et al.* 1999. *J. Immunol.* 162:774.
4. Rosenblum MD, *et al.* 2004. *Blood* 103:2691.
5. Zhang S, *et al.* 2004. *J. of Immunol.* 173:6786.
6. Barclay AN, *et al.* 2002. *Trends Immunol.* 23:285.

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