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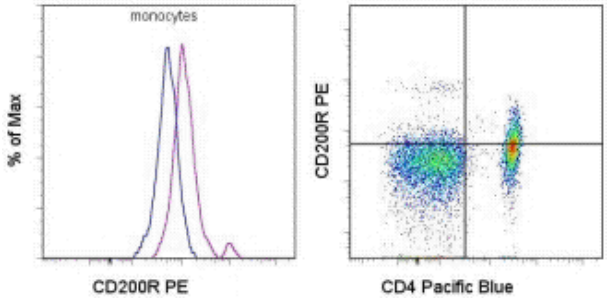
Anti-Human CD200 Receptor PE

Catalog Number: 12-9201
RUO: For Research Use Only



Staining of normal human peripheral blood cells with Anti-Human CD4 eFluor® 450 (cat. 48-0048) and Mouse IgG1 K Isotype Control PE (cat. 12-4714) (blue histogram) or Anti-Human CD200 Receptor PE (purple histogram). Cells in the monocyte (left) or lymphocyte (right) gates were used for analysis.

Product Information

Contents: Anti-Human CD200 Receptor PE
REF Catalog Number: 12-9201
Clone: OX108
Concentration: 5 uL (0.25 ug)/test
Host/Isotype: Mouse IgG1
Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.
LOT Batch Code: Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

Description

The monoclonal antibody OX108 recognizes human CD200R also known as OX2. CD200R is an inhibitory receptor with a similar structure as its ligand, CD200, yet lacks an ITIM domain typically found in inhibitory receptors. Instead the CD200R cytoplasmic domain contains a novel phosphotyrosine binding domain, NPXY, which after binding SHIP inhibits ERK, JNK and MAPK p38 pathways. In activated macrophages signaling results in inhibition of TNFα secretion. Isoforms of CD200R have been identified and are thought to play a major role in differentiation, especially in regards to tolerogenic DCs.

Expression is restricted to hematopoietic cells: myeloid cells (monocytes, macrophages, DCs, neutrophils, mast cells and basophils) and a subset of T lymphocytes as well as langerhans (LC) cells and dendritic epidermal T cells. The epitope of OX108 is thought to be near the binding site of CD200.

Applications Reported

This OX108 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This OX108 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µl (0.25 µg)/per test. A test is defined as the amount (µg)/test of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

References

Letarte M, Voulgaraki D, Hatherley D, Foster-Cuevas M, Saunders NJ, Barclay AN. Analysis of leukocyte membrane protein interactions using protein microarrays. BMC Biochem. 2005 Mar 1;6:2. (OX108 PubMed)

Foster-Cuevas M, Wright GJ, Puklavec MJ, Brown MH, Barclay AN.Human herpesvirus 8 K14 protein mimics CD200 in down-regulating macrophage activation through CD200 receptor. J Virol. 2004 Jul;78(14):7667-76. (OX108, FC, PubMed)

Wright GJ, Cherwinski H, Foster-Cuevas M, Brooke G, Puklavec MJ, Bigler M, Song Y, Jenmalm M, Gorman D, McClanahan T, Liu MR, Brown MH, Sedgwick JD, Phillips JH, Barclay AN. Characterization of the CD200 receptor family in mice and humans and their interactions with CD200. J Immunol. 2003 Sep 15;171(6):3034-46.

Related Products

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.1)
17-9200 Anti-Human CD200 APC (OX104)

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