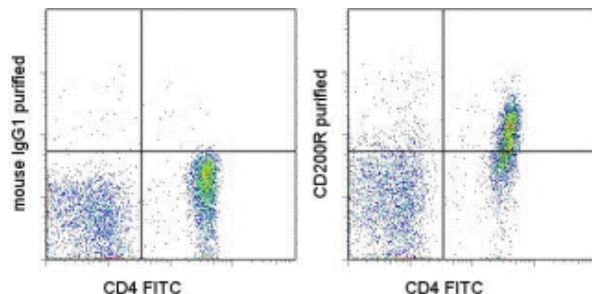


Anti-Human CD200 Receptor Purified

Catalog Number: 14-9201

RUO: For Research Use Only



Staining of normal human peripheral blood cells with Anti-Human CD4 FITC (cat. 11-0048) and 0.25 ug of Purified Mouse IgG1 kappa Isotype Control (cat. 14-4714) (left) or 0.25 ug of Anti-Human CD200 Receptor Purified (right) followed by Anti-Mouse IgG PE. Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD200 Receptor Purified

REF **Catalog Number:** 14-9201

Clone: OX108

Concentration: 0.5 mg/mL

Host/Isotype: Mouse IgG1

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C.



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 TNF α 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 tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 0.5 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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

11-0048 Anti-Human CD4 FITC (OKT4 (OKT-4))

14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.1)

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