

CD200 Antibody, Mouse MAb



Sino Biological Inc.
Biological Solution Specialist

Catalog Number: 10886-MM17

General Information	
Immunogen:	Recombinant Human CD200 Protein (Catalog#10886-H08H)
Specificity:	Human CD200
Clone ID:	17
Ig Type:	Mouse IgG1
Applications:	ELISA, FCM
Formulation:	0.2 µm filtered solution in PBS
Storage:	< -20 °C

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human CD200 (rh CD200; Catalog#10886-H08H; NP_005935.4; Met1-Gly232). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.

Specificity

Human CD200

Storage

This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. **Preservative-Free.**

Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. **Avoid repeated freeze-thaw cycles.**

Background

CD200 (OX-2) is a cell surface glycoprotein that imparts immune privileges by suppressing alloimmune and autoimmune responses through its receptor, CD200R, expressed primarily on myeloid cells. Signals delivered through the CD200:CD200R axis have been shown to play an important role in the regulation of anti-tumor immunity, and overexpression of CD200 has been reported in a number of malignancies, including CLL, as well as on cancer stem cells. The role of CD200-CD200R signaling in immune regulation of the central nervous system has become a popular field of research in recent years. Many studies have shown that there is a close correlation between CD200-CD200R, microglia activation, and Parkinson's disease (PD). The ability of CD200 to suppress myeloid cell activation is critical for maintaining normal tissue homeostasis but may also enhance the survival of migratory neoplastic cells. CD200 and CD200R associate via their respective N-terminal Ig-like domains. CD200 has been characterized as an important immunoregulatory molecule, increased expression of which can lead to decreased transplant rejection, autoimmunity, and allergic disease. Elevated CD200 expression has been reported to be associated with poor prognosis in a number of human malignancies. In addition, CD200 also plays an important role in prevention of graft rejection, autoimmune diseases and spontaneous abortion.

Reference

Minas K, *et al.* (2006) Is the CD200/CD200 receptor interaction more than just a myeloid cell inhibitory signal? *Crit Rev Immunol.* 26(3): 213-30.
Wang XJ, *et al.* (2007) CD200-CD200R regulation of microglia activation in the pathogenesis of Parkinson's disease. *J Neuroimmune Pharmacol.* 2(3): 259-64.
Wong KK, *et al.* (2010) The role of CD200 in immunity to B cell lymphoma. *J Leukoc Biol.* 88(2): 361-72.

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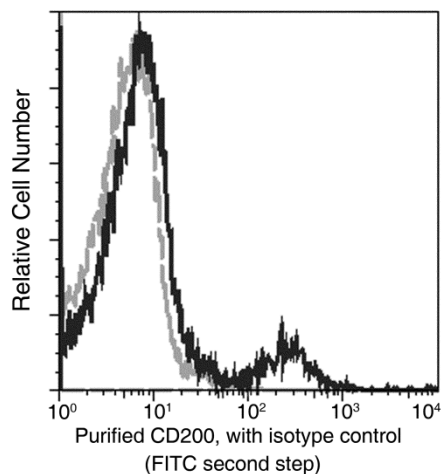
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Applications

Flow Cytometry –

FCM: 0.5-2 µg/Test



Flow cytometric analysis of Human CD200 expression on human whole blood lymphocytes. Cells were stained with purified anti-Human CD200, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of viable lymphocytes.

Flow cytometry was performed on a BD FACSCalibur flow cytometry system.

Please refer to www.sinobiological.com/Flow-Cytometry-FACS-Protocols-a-750.html for technical protocols.

Direct ELISA – This antibody can be used at 0.5-1 µg/ml with the appropriate secondary reagents to detect Human CD200 / OX2.