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Datasheet for ABIN1684663

CD200 Protein (CD200) (C-Term, Extracellular Domain)

Overview

Quantity:	100 µg
Target:	CD200
Protein Characteristics:	C-Term, Extracellular Domain
Origin:	Mouse
Source:	HEK-293T Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Specificity:	Optimized DNA sequence encoding extracellular domain of Mouse CD200 including a C-terminal 6His tag was expressed in HEK293 cells.
Characteristics:	Recombinant Mouse CD200 is a monomer protein consisting of 13 amino acid residue subunits, due to glycosylation migrates as an approximately 40-45kDa protein on SDS-PAGE.
Purity:	> 98 %, as determined by SDS-PAGE and HPLC
Sterility:	0.2 µm filtered
Endotoxin Level:	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/µg(1EU/µg).

Target Details

Target:	CD200
Alternative Name:	CD200 (CD200 Products)

Target Details

Background: CD7 is a 40-kD member of the Ig gene superfamily that is expressed on a major subset of human peripheral T lymphocytes and NK cells. CD7 can complex with CD3 and CD45 molecules, and CD7 signaling involves both protein kinase C and protein tyrosine kinase. CD7 has been shown to be a functional signal-transducing molecule on resting NK cells. Although the function of CD7 is unknown, studies suggest that CD7 may be involved in T and NK cell activation and/or adhesion. In TCRbeta T cells, cross-linking of CD7 leads to rapid increases in intracellular calcium concentrations, induces CD7 cytoplasmic domain association with phosphatidylinositol-3-kinase, synergizes with submitogenic amounts of CD3 mAbs to induce T cell activation, modulates T cell adhesion, and increases T cell IL-2 production and IL-2 receptor expression. In TCR T cells, cross-linking of CD7 leads to cell activation and induction of TNF- α , TNF- β , and granulocyte-macrophage CSF mRNA.

UniProt: [O54901](#)

Application Details

Comment: The activity was tested by the ability of immobilized recombinant mouse CD200 (1 μ g/mL, 100 μ L/well) to bind mouse CD200R1 with a linear range of 1-200 ng/mL

Restrictions: For Research Use only

Handling

Buffer: PBS solution, pH7.2

Handling Advice: Avoid repeated freeze/thaw cycles.

Storage: -20 °C

Storage Comment: The lyophilized antibody is stable for at least 1 year from date of receipt at -20 °C. Upon reconstitution, this antibody can be stored in working aliquots at -8 °C for one month, or at -20 °C for six months without detectable loss of activity.

Expiry Date: 12 months