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Datasheet for ABIN1672888

CD200 ELISA Kit

1 Image

Overview

Quantity:	96 tests
Target:	CD200
Binding Specificity:	AA 31-232
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human CD200
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: Q31-G232
Specificity:	Expression system for standard: NSO Immunogen sequence: Q31-G232
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity: <10pg/mL

Material not included: Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g NaCl

Target Details

Target: CD200

Alternative Name: CD200 ([CD200 Products](#))

Background: Protein Function: Costimulates T-cell proliferation. May regulate myeloid cell activity in a variety of tissues.

Background: OX-2 membrane glycoprotein, also known as CD200 is a human protein encoded by the CD200 gene. This gene is mapped to 3q13.2. The protein encoded by this gene is a type-1 membrane glycoprotein, which contains two immunoglobulin domains, and thus belongs to the immunoglobulin superfamily. Studies of the related genes in mouse and rat suggest that this gene may regulate myeloid cell activity and delivers an inhibitory signal for the macrophage lineage in diverse tissues. It is suggested that CD200-CD200R signaling plays a central role in macrophage fusion and osteoclast formation.

Synonyms: OX-2 membrane glycoprotein,CD200,CD200,MOX1, MOX2,My033,

Full Gene Name: OX-2 membrane glycoprotein

Cellular Localisation: Cell membrane, Single-pass type I membrane protein.

Gene ID: 4345

UniProt: [P41217](#)

Application Details

Application Notes: Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.

Comment: Sequence similarities: Contains 1 Ig-like C2-type (immunoglobulin-like) domain.

Plate: Pre-coated

Protocol: human CD200 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CD200 has been precoated onto 96-well plates. Standards(NSO, Q31-G232) and test samples are added to the wells, a

Application Details

biotinylated detection polyclonal antibody from goat specific for CD200 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human CD200 amount of sample captured in plate.

Assay Procedure: Aliquot 0.1 mL per well of the 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL human CD200 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum and plasma (heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human CD200 standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 120, Standard deviation: 6.12, CV(%): 5.1
- Sample 2: n=16, Mean(pg/ml): 635, Standard deviation: 34.29, CV(%): 5.4
- Sample 3: n=16, Mean(pg/ml): 1149, Standard deviation: 70.09, CV(%): 6.1,
- Sample 1: n=24, Mean(pg/ml): 130, Standard deviation: 8.06, CV(%): 6.2
- Sample 2: n=24, Mean(pg/ml): 623, Standard deviation: 35.51, CV(%): 5.7
- Sample 3: n=24, Mean(pg/ml): 1208, Standard deviation: 90.6, CV(%): 7.5

Restrictions: For Research Use only

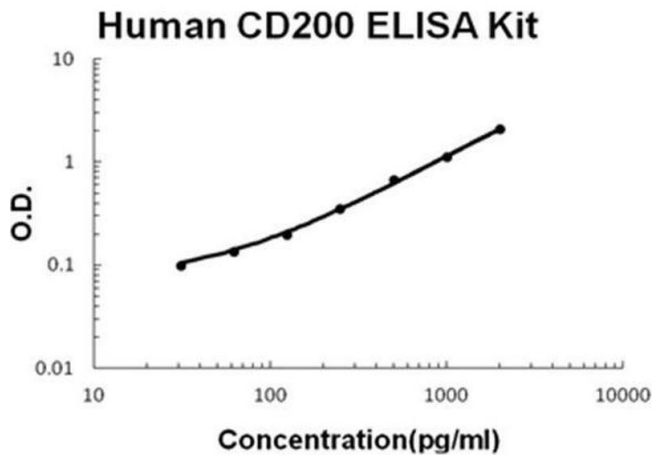
Handling

Handling Advice: Avoid multiple freeze-thaw cycles.

Storage: -20 °C, 4 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles

Expiry Date: 12 months



ELISA

Image 1. Human CD200 PicoKine ELISA Kit standard curve