Datasheet for ABIN1889445

Sialoadhesin/CD169 ELISA Kit

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Overview

Quantity:	96 tests
Target:	Sialoadhesin/CD169 (SIGLEC1)
Binding Specificity:	AA 20-1639
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	156-10.000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse CD169/SIGLEC-1
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: T20-R1639
Specificity:	Expression system for standard: NSO Immunogen sequence: T20-R1639
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:	Sialoadhesin/CD169 (SIGLEC1)
Alternative Name:	SIGLEC1 (SIGLEC1 Products)
Background:	Protein Function: Acts as an endocytic receptor mediating clathrin dependent endocytosis. Macrophage-restricted adhesion molecule that mediates sialic-acid dependent binding to lymphocytes, including granulocytes, monocytes, natural killer cells, B-cells and CD8 T-cells (By similarity). Preferentially binds to alpha- 2,3-linked sialic acid. Binds to SPN/CD43 on T-cells. May play a role in hematopoiesis. May act as a counter-receptor for CLEC10A in lymph node. . Background: SIGLEC-1, also known as Sialoadhesin or CD169, is a cell adhesion molecule found on the surface of certain cells of the immune system called macrophages. This gene is mapped to 20p13. It belongs to the immunoglobulin superfamily(IgSF). Since sialoadhesin binds sialic acids with its N-terminal IgV-domain, it is also a member of the SIGLEC family. The localization and expression of SIGLEC-1 in humans has altered coincident with the evolutionary loss of Neu5Gc. SIGLEC-1-positive macrophages have a dual physiologic function. They act as innate 'flypaper' by preventing the systemic spread of lymph-borne pathogens and as critical gatekeepers at the lymph-tissue interface that facilitate the recognition of particulate antigens by B cells and initiate humoral immune responses. Synonyms: Sialoadhesin,Sheep erythrocyte receptor,SER,Sialic acid-binding Ig-like lectin 1,Siglec-1,CD169,Siglec1,Sa, Sn, Full Gene Name: Sialoadhesin Cellular Localisation: Isoform 1: Cell membrane, Single-pass type I membrane protein.
Gene ID:	20612
UniProt:	Q62230

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.

Application Details

Comment:	Sequence similarities: Belongs to the immunoglobulin superfamily. SIGLEC (sialic acid binding Ig-like lectin) family. Tissue Specificity: Detected in lymph node in the subcapsular sinus, interfollicular regions, and T and B-cell boundary (at protein level). Expressed by macrophages in various tissues. Highest expression in spleen and lymph node with lower amounts in lung, liver, bone marrow, heart and skin. No expression in thymus, kidney, brain or small intestine. .
Plate:	Pre-coated
Protocol:	mouse CD169 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for CD169 has been precoated onto 96-well plates. Standards(NSO, T20-R1639) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CD169 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 mouse CD169 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL mouse CD169 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 mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each mouse CD169 standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(ng/ml): 1.64, Standard deviation: 0.06, CV(%): 3.7 • Sample 2: n=16, Mean(ng/ml): 4.85, Standard deviation: 0.204, CV(%): 4.2 • Sample 3: n=16, Mean(ng/ml): 6.88, Standard deviation: 0.316, CV(%): 4.6, • Sample 1: n=24, Mean(ng/ml): 2.54, Standard deviation: 0.119, CV(%): 4.7 • Sample 2: n=24, Mean(ng/ml): 5.31, Standard deviation: 0.27, CV(%): 5.1 • Sample 3: n=24, Mean(ng/ml): 7.05, Standard deviation: 0.437, CV(%): 6.2
Restrictions:	For Research Use only

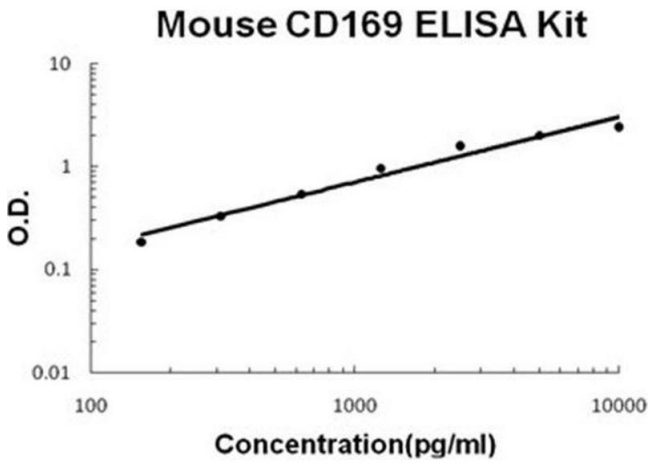
Handling

Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C

Handling

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

Images



ELISA

Image 1. Mouse CD169/SIGLEC-1 PicoKine ELISA Kit standard curve