Datasheet for ABIN921073

L-Selectin ELISA Kit

1 Image | 1 Publication

Go to Product page

Overview

Quantity:	96 tests
Target:	L-Selectin (SELL)
Binding Specificity:	AA 39-332
Reactivity:	Chemical
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human sL-Selectin
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Plasma (citrate)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: W39-N332
Specificity:	Expression system for standard: NSO Immunogen sequence: W39-N332
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity:	<5pg/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:	L-Selectin (SELL)
Alternative Name:	SELL (SELL Products)
Background:	Protein Function: Cell surface adhesion protein. Mediates the adherence of lymphocytes to endothelial cells of high endothelial venules in peripheral lymph nodes. Promotes initial tethering and rolling of leukocytes in endothelia. . Background: L-selectin, also known as CD62L, is a cell adhesion molecule found on leukocytes. It belongs to the selectin family of proteins, which recognize sialylated carbohydrate groups. It is cleaved by ADAM17.SELL(L-selectin)is a cell surface component that is a member of a family of adhesion/homing receptors which play important roles in leukocyte-endothelial cell interactions. The molecule is composed of multiple domains: one homologous to lectins, one to epidermal growth factor, and two to the consensus repeat units found in C3/C4 binding proteins.1L-selectin acts as a "homing receptor" for leukocytes to enter secondary lymphoid tissues via high endothelial venules. Ligands present on endothelial cells will bind to leukocyte expressing L-selectin, slowing leukocyte trafficking through the blood, and facilitating entry into a secondary lymphoid organ at that point2. Synonyms: L-selectin,CD62 antigen-like family member L,Leukocyte adhesion molecule 1,LAM-1,Leukocyte surface antigen Leu-8,Leukocyte-endothelial cell adhesion molecule 1,LECAM1,Lymph node homing receptor,TQ1,gp90-MEL,CD62L,SELL,LNHR, LYAM1, Full Gene Name: L-selectin Cellular Localisation: Membrane, Single-pass type I membrane protein.
Gene ID:	6402
UniProt:	P14151

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 selectin/LECAM family. Tissue Specificity: Expressed in B-cell lines and T-lymphocytes. .
Plate:	Pre-coated
Protocol:	human sL-Selectin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for sL-Selectin has been precoated onto 96-well plates. Standards(NSO, W39-N332) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for sL-Selectin 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 sL-Selectin amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL human sL-Selectin 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 or plasma(heparin, EDTA, citrate) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human sL-Selectin standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 679, Standard deviation: 36, CV(%): 5.3 • Sample 2: n=16, Mean(pg/ml): 1358, Standard deviation: 53, CV(%): 3.9 • Sample 3: n=16, Mean(pg/ml): 2127, Standard deviation: 110.6, CV(%): 5.2, • Sample 1: n=24, Mean(pg/ml): 799, Standard deviation: 44.7, CV(%): 5.6 • Sample 2: n=24, Mean(pg/ml): 1643, Standard deviation: 79.1, CV(%): 4.8 • Sample 3: n=24, Mean(pg/ml): 2585, Standard deviation: 191.3, CV(%): 7.4
Restrictions:	For Research Use only

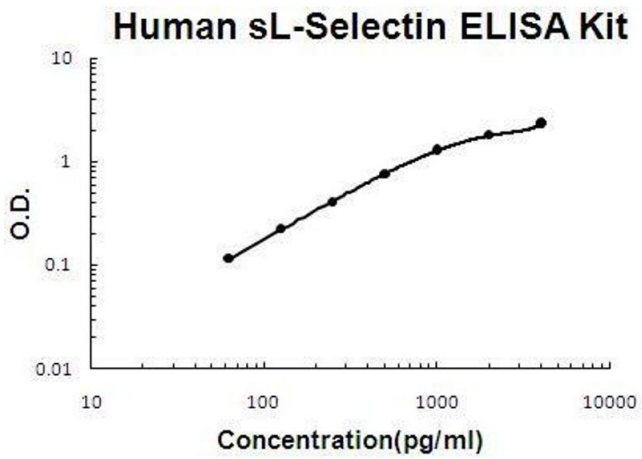
Handling

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

Publications

Product cited in:	Vassena, Giuliani, Koppensteiner, Bolduan, Schindler, Doria: "HIV-1 Nef and Vpu Interfere with L-Selectin (CD62L) Cell Surface Expression To Inhibit Adhesion and Signaling in Infected CD4+ T Lymphocytes." in: **Journal of virology**, Vol. 89, Issue 10, pp. 5687-700, (2015) (PubMed).

Images



ELISA

Image 1. Human sL-Selectin PicoKine ELISA Kit standard curve