Datasheet for ABIN1889418
DLL1 ELISA Kit

1	Image

Overview

Quantity:	96 tests
Target:	DLL1
Binding Specificity:	AA 22-540
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	78-5000 pg/mL
Minimum Detection Limit:	78 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human DLL1
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Urine, Milk
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: S22-G540
Specificity:	Expression system for standard: NSO Immunogen sequence: S22-G540
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:	DLL1
Alternative Name:	DLL1 (DLL1 Products)
Background:	Protein Function: Acts as a ligand for Notch receptors. Blocks the differentiation of progenitor cells into the B-cell lineage while promoting the emergence of a population of cells with the characteristics of a T-cell/NK-cell precursor. .
	Background: DLL1(DELTA-LIKE 1), also known as DL1 or DELTA1, is a protein that in humans is encoded by the DLL1 gene. DLL1 is a human homolog of the Notch Delta ligand and is a member of the delta/serrate/jagged family. It plays a role in mediating cell fate decisions during hematopoiesis, and it is also important in cell-to-cell communication. This gene is mapped to chromosome 6q27, near a locus for type I diabetes. Functional analysis suggested that a soluble fusion protein containing the DSL domain of DLL1 and its adjacent 50 N-terminal amino acids increased the viability of hemopoietic cells but inhibited cell death. It has been found that DLL1 blocks the differentiation of progenitor cells into the B-cell lineage while promoting the emergence of a population of cells with the characteristics of a T-cell/NK-cell precursor.
	Synonyms: Delta-like protein 1,Drosophila Delta homolog 1,Delta1,H-Delta-1,DLL1,UNQ146/PRO172,
	Full Gene Name: Delta-like protein 1
	Cellular Localisation: Membrane, Single-pass type I membrane protein.
Gene ID:	28514
UniProt:	O00548
Pathways:	Notch Signaling, Stem Cell Maintenance

Application Details

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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: Contains 1 DSL domain. Tissue Specificity: Expressed in heart and pancreas, with lower expression in brain and muscle and almost no expression in placenta, lung, liver and kidney.
Plate:	Pre-coated
Protocol:	human DLL1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for DLL1 has been precoated onto 96-well plates. Standards(NSO, S22-G540) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for DLL1 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 DLL1 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 313pg/mL, 156pg/mL, 78pg/mL human DLL1 standard solutions into the pre-coated 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, plasma(heparin, EDTA), urine or human milk to each empty well. See "Sample Dilution Guideline" above for details. We recommend that each human DLL1 standard solution and each sample is measured in duplicate.
Assay Precision:	- Sample 1: n=16, Mean(pg/ml): 713, Standard deviation: 24.9, CV(%): 3.5 - Sample 2: n=16, Mean(pg/ml): 1579, Standard deviation: 64.74, CV(%): 4.1 - Sample 3: n=16, Mean(pg/ml): 3618, Standard deviation: 137.5, CV(%): 3.8, - Sample 1: n=24, Mean(pg/ml): 674, Standard deviation: 49.8, CV(%): 7.4 - Sample 2: n=24, Mean(pg/ml): 1486, Standard deviation: 101, CV(%): 6.8 - Sample 3: n=24, Mean(pg/ml): 3542, Standard deviation: 269.2, CV(%): 7.6
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
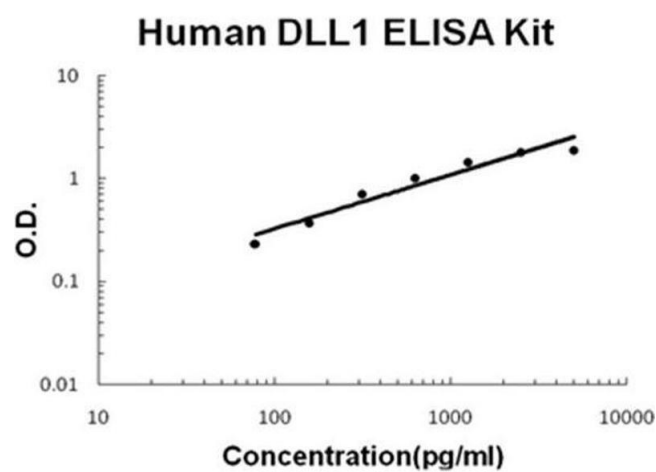
Images

ELISA

Image 1. Human DLL1 PicoKine ELISA Kit standard curve