Datasheet for ABIN2859289

NBL1 ELISA Kit

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Overview

Quantity:	96 tests
Target:	NBL1
Binding Specificity:	AA 17-181
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	125-8000 pg/mL
Minimum Detection Limit:	125 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human DAN/NBL1
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: A17-D181
Specificity:	NSO, A17-D181
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<10pg/mL

Product Details

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:	NBL1
Alternative Name:	NBL1 (NBL1 Products)
Background:	Protein Function: Possible candidate as a tumor suppressor gene of neuroblastoma. May play an important role in preventing cells from entering the final stage (G1/S) of the transformation process. Background: Differential screening-selected gene aberrative in neuroblastoma (DAN) is a member of the DAN family of secreted glycoproteins that are putative BMP antagonists. The NBL1 gene, also known as DAN, is originally cloned from a normal rat fibroblast cDNA library by a differential screening method. The human DAN gene is mapped to chromosome 1p36.13-p36. It is found that the DAN gene possesses a tumor suppressive activity when overexpressed in v-src transformed cells. Synonyms: Neuroblastoma suppressor of tumorigenicity 1,DAN domain family member 1,Protein N03,Zinc finger protein DAN,NBL1,DAN, DAND1, Full Gene Name: Neuroblastoma suppressor of tumorigenicity 1 Cellular Localisation: Secreted.
Gene ID:	4681
UniProt:	P41271

Application Details

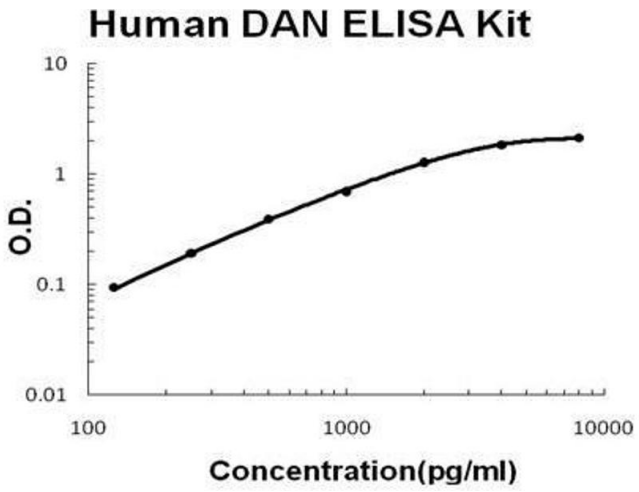
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Tissue Specificity: Most abundant in normal lung and meningioma.
Plate:	Pre-coated
Protocol:	human DAN ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for DAN has been precoated onto 96-well plates. Standards (NSO, A17-D181) and test samples are added to the wells, a biotinylated

Application Details

	detection polyclonal antibody from goat specific for DAN 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 DAN amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 8000pg/mL, 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL human DAN 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) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human DAN standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 1257, Standard deviation: 72.90, CV(%): 5.8 • Sample 2: n=16, Mean(pg/ml): 3204, Standard deviation: 189.03, CV(%): 5.9 • Sample 3: n=16, Mean(pg/ml): 5394, Standard deviation: 334.42, CV(%): 6.2, • Sample 1: n=24, Mean(pg/ml): 1020, Standard deviation: 65.28, CV(%): 6.4 • Sample 2: n=24, Mean(pg/ml): 3562, Standard deviation: 235.09, CV(%): 6.6 • Sample 3: n=24, Mean(pg/ml): 4975, Standard deviation: 353.22, CV(%): 7.1
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 DAN/NBL1 PicoKine ELISA Kit standard curve