Datasheet for ABIN411390

P-Cadherin ELISA Kit

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Overview

Quantity:	96 tests
Target:	P-Cadherin (CDH3)
Binding Specificity:	AA 108-654
Reactivity:	Human
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 P-Cadherin
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: D108-G654
Specificity:	Expression system for standard: NSO Immunogen sequence: D108-G654
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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Product Details

Sensitivity:	<2pg/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:	P-Cadherin (CDH3)
Alternative Name:	CDH3 (CDH3 Products)
Background:	Protein Function: Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells, cadherins may thus contribute to the sorting of heterogeneous cell types. Background: Cadherins are calcium-dependent cell-cell adhesion molecules that mediate cell-cell binding in a homophilic manner. They play an important role in the growth and development of cells via the mechanisms of control of tissue architecture and the maintenance of tissue integrity. Cadherin expression is regulated spatially as well as temporally. Cadherins are thought to play an important role in development and maintenance of tissues through selective cell-cell adhesion activity and may be involved also in the invasion and metastasis of malignant tumors. Cadherin regulates dendritic spine morphogenesis. A cadherin gene cluster is mapped to a region of chromosome 5 subject to frequent allelic loss in carcinoma. The standard product used in this kit is recombinant P-Cadherin with the molecular mass of 120-130Kda after glycosylation. Synonyms: Cadherin-3,Placental cadherin,P-cadherin,CDH3,CDHP, Full Gene Name: Cadherin-3 Cellular Localisation: Cell membrane, Single-pass type I membrane protein.
Gene ID:	1001
UniProt:	P22223

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 5 cadherin domains. Tissue Specificity: Expressed in some normal epithelial tissues and in some carcinoma cell

Application Details

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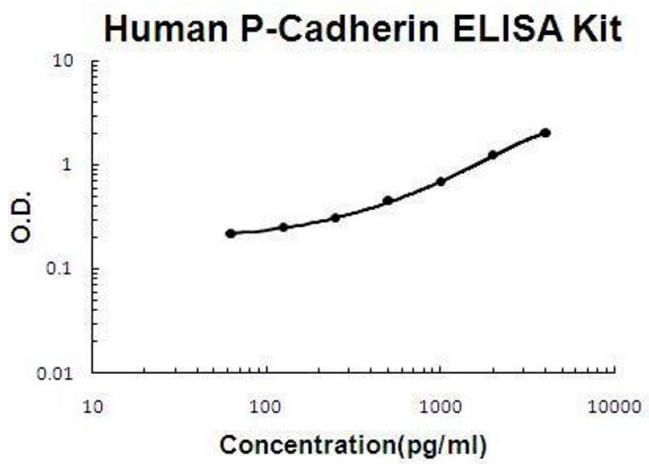
Plate:	Pre-coated
Protocol:	human P-Cadherin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for P-Cadherin has been precoated onto 96-well plates. Standards(NSO, D108-G654) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for P-Cadherin 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 P-Cadherin 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 P-Cadherin 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 or serum to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human P-Cadherin standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 426, Standard deviation: 27.69, CV(%): 6.5 • Sample 2: n=16, Mean(pg/ml): 1211, Standard deviation: 82.35, CV(%): 6.8 • Sample 3: n=16, Mean(pg/ml): 2574, Standard deviation: 185.33, CV(%): 7.2, • Sample 1: n=24, Mean(pg/ml): 432, Standard deviation: 32.83, CV(%): 7.6 • Sample 2: n=24, Mean(pg/ml): 1221, Standard deviation: 96.46, CV(%): 7.9 • Sample 3: n=24, Mean(pg/ml): 2624, Standard deviation: 233.04, CV(%): 8.5
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 P-Cadherin PicoKine ELISA Kit standard curve

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