

Datasheet for ABIN1672767

P-Cadherin ELISA Kit[Go to Product page](#)**1** Image

Overview

Quantity:	96 tests
Target:	P-Cadherin (CDH3)
Binding Specificity:	AA 100-647
Reactivity:	Mouse
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 Mouse P-Cadherin
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: E100-G647
Specificity:	Expression system for standard: NSO Immunogen sequence: E100-G647
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:	P-Cadherin (CDH3)
Alternative Name:	CDH3 (CDH3 Products)
Background:	<p>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.</p> <p>Background: P-Cadherin, also known as Cadherin-3(CDH3), is a protein that in humans is encoded by the CDH3 gene. This gene is a classical cadherin from the cadherin superfamily. This gene is located in a six-cadherin cluster in a region on the long arm of chromosome 16 that is involved in loss of heterozygosity events in breast and prostate cancer. In addition, aberrant expression of this protein is observed in cervical adenocarcinomas. Mutations in this gene have been associated with congenital hypotrichosis with juvenile macular dystrophy. Cells expressing CDH3 also adhered to one another more tightly than the parental cell line.</p> <p>Synonyms: Cadherin-3,Placental cadherin,P-cadherin,Cdh3,Cdhp,</p> <p>Full Gene Name: Cadherin-3</p> <p>Cellular Localisation: Cell membrane, Single-pass type I membrane protein.</p>
Gene ID:	12560
UniProt:	P10287

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.
Plate:	Pre-coated
Protocol:	mouse P-Cadherin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for P-Cadherin has been precoated onto 96-well plates. Standards(NSO, E100-G647) and test samples are added to the wells, a

Application Details

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 mouse 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 mouse 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 mouse cell culture supernates or serum to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each mouse P-Cadherin standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 433, Standard deviation: 27.28, CV(%): 6.3
- Sample 2: n=16, Mean(pg/ml): 1314, Standard deviation: 88.04, CV(%): 6.7
- Sample 3: n=16, Mean(pg/ml): 2658, Standard deviation: 180.74, CV(%): 6.8,
- Sample 1: n=24, Mean(pg/ml): 437, Standard deviation: 31.90, CV(%): 7.3
- Sample 2: n=24, Mean(pg/ml): 1356, Standard deviation: 103.06, CV(%): 7.6
- Sample 3: n=24, Mean(pg/ml): 2713, Standard deviation: 211.61, CV(%): 7.8

Restrictions: For Research Use only

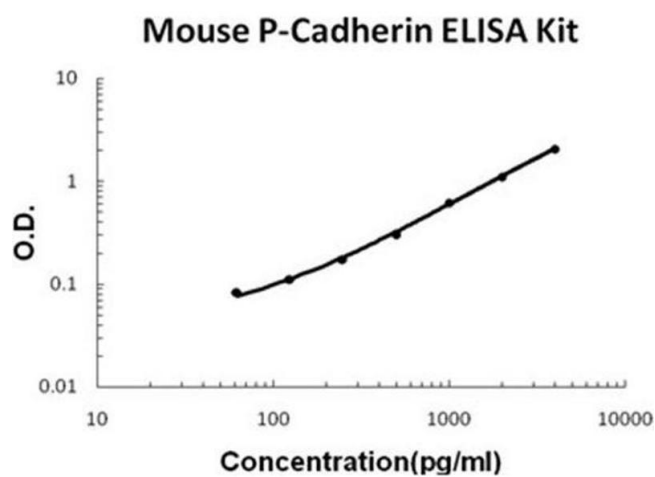
Handling

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. Mouse P-Cadherin PicoKine ELISA Kit standard curve