Datasheet for ABIN1889326

Nidogen 1 ELISA Kit

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Overview

Quantity:	96 tests
Target:	Nidogen 1 (NID1)
Binding Specificity:	AA 29-1114
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 Nidogen-1
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: L29-K1114
Specificity:	Expression system for standard: NSO Immunogen sequence: L29-K1114
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:	Nidogen 1 (NID1)
Alternative Name:	NID1 (NID1 Products)
Background:	Protein Function: Sulfated glycoprotein widely distributed in basement membranes and tightly associated with laminin. Also binds to collagen IV and perlecan. It probably has a role in cell-extracellular matrix interactions. Background: Nidogen-1(NID-1), also known as Entactin, is a protein that in humans is encoded by the NID1 gene. It is a member of the nidogen family of basement membrane glycoproteins. This gene is mapped to 1q42.3. Nidogen-1 is a component of the basement membrane alongside other components such as collagen type IV, proteoglycans(heparan sulfate and glycosaminoglycans), laminin and fibronectin. The protein interacts with several other components of basement membranes. Structurally it(along with perlecan) connects the networks formed by collagens and laminins to each other. It may also play a role in cell interactions with the extracellular matrix. Nidogen-1 also can serve as a bridge between the 2 most abundant molecules in the basement membrane: type IV collagen and laminin. Synonyms: Nidogen-1,NID-1,Entactin,NID1,NID, Full Gene Name: Nidogen-1 Cellular Localisation: Secreted, extracellular space, extracellular matrix, basement membrane.
Gene ID:	4811
UniProt:	P14543

Application Details

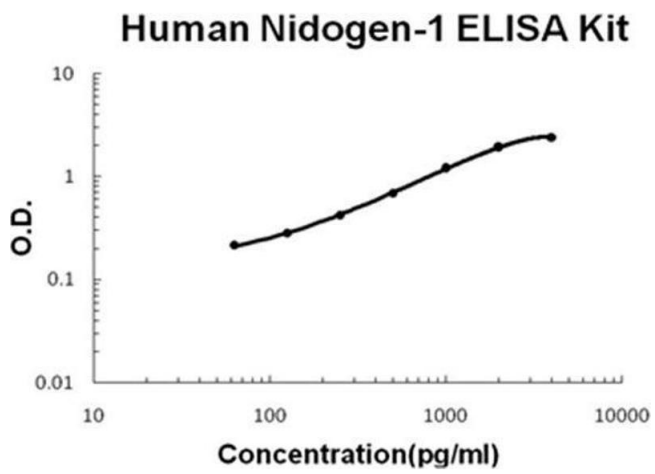
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Contains 6 EGF-like domains.
Plate:	Pre-coated

Application Details

Protocol:	human Nidogen-1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Nidogen-1 has been precoated onto 96-well plates. Standards(NSO, L29-K1114) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Nidogen-1 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 Nidogen-1 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 Nidogen-1 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 Nidogen-1 standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 322, Standard deviation: 14.17, CV(%): 4.4 • Sample 2: n=16, Mean(pg/ml): 1438, Standard deviation: 74.8, CV(%): 5.2 • Sample 3: n=16, Mean(pg/ml): 2638, Standard deviation: 166.2, CV(%): 6.3, • Sample 1: n=24, Mean(pg/ml): 547, Standard deviation: 31.18, CV(%): 5.7 • Sample 2: n=24, Mean(pg/ml): 1729, Standard deviation: 105.5, CV(%): 6.1 • Sample 3: n=24, Mean(pg/ml): 2875, Standard deviation: 186.9, CV(%): 6.5
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 Nidogen-1/Entactin/NID-1 PicoKine ELISA Kit standard curve