

Datasheet for ABIN1889323  
**NOV ELISA Kit**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	96 tests
Target:	NOV
Binding Specificity:	AA 32-357
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

## Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human NOV/CCN3
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: T32-M357
Specificity:	Expression system for standard: NSO Immunogen sequence: T32-M357
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

## 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: NOV

Alternative Name: NOV ([NOV Products](#))

Background: Protein Function: Immediate-early protein likely to play a role in cell growth regulation. .  
Background: NOV(nephroblastoma overexpressed), also known as CCN3, is a matricellular protein that in humans is encoded by the NOV gene. The protein encoded by this gene is a small secreted cysteine-rich protein and a member of the CCN family of regulatory proteins. This gene is mapped to 8q24.12. NOV is a potentially useful marker for the diagnosis of adrenal gland diseases, malignant adrenocortical tumors, multiple sclerosis and so on. Moreover, reduced expression of NOV in ACTs may play an important role in the process of childhood ACT tumorigenesis. Though studying, it identified Nov as a regulator of human hematopoietic stem or progenitor cells.  
Synonyms: Protein NOV homolog,NovH,CCN family member 3,Insulin-like growth factor-binding protein 9,IBP-9,IGF-binding protein 9,IGFBP-9,Nephroblastoma-overexpressed gene protein homolog,NOV,CCN3, IGFBP9, NOVH,  
Full Gene Name: Protein NOV homolog  
Cellular Localisation: Secreted.

Gene ID: 4856

UniProt: [P48745](#)

Pathways: [Smooth Muscle Cell Migration](#), [Growth Factor Binding](#)

## 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: Belongs to the CCN family.  
Tissue Specificity: Expressed in bone marrow, thymic cells and nephroblastoma. Increased

## Application Details

expression in Wilms tumor of the stromal type. .

Plate: Pre-coated

Protocol: human NOV ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for NOV has been precoated onto 96-well plates. Standards(NSO, T32-M357) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for NOV 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 NOV amount of sample captured in plate.

Assay Procedure: Aliquot 0.1 mL per well of the 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL human NOV 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 NOV standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 154, Standard deviation: 8.78, CV(%): 5.7
- Sample 2: n=16, Mean(pg/ml): 653, Standard deviation: 40.5, CV(%): 6.2
- Sample 3: n=16, Mean(pg/ml): 1286, Standard deviation: 61.73, CV(%): 4.8,
- Sample 1: n=24, Mean(pg/ml): 197, Standard deviation: 12.61, CV(%): 6.4
- Sample 2: n=24, Mean(pg/ml): 728, Standard deviation: 48.78, CV(%): 6.7
- Sample 3: n=24, Mean(pg/ml): 1473, Standard deviation: 78.1, CV(%): 5.3

Restrictions: For Research Use only

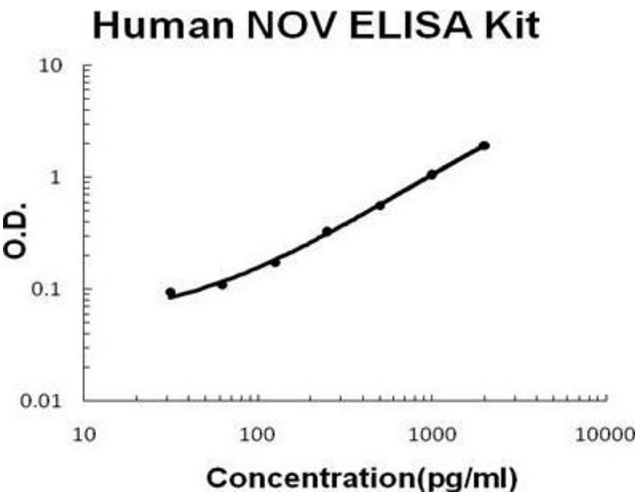
## Handling

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 NOV/CCN3 PicoKine ELISA Kit standard curve