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Datasheet for ABIN1672872

IL28A ELISA Kit

1 Image

Overview

Quantity:	96 tests
Target:	IL28A
Binding Specificity:	AA 26-200
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 IL-28A
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: V26-V200
Specificity:	Expression system for standard: NSO Immunogen sequence: V26-V200
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: IL28A

Alternative Name: IFNL2 ([IL28A Products](#))

Background: Protein Function: Cytokine with antiviral, antitumour and immunomodulatory activities. Plays a critical role in the antiviral host defense, predominantly in the epithelial tissues. Acts as a ligand for the heterodimeric class II cytokine receptor composed of IL10RB and IFNLR1, and receptor engagement leads to the activation of the JAK/STAT signaling pathway resulting in the expression of IFN- stimulated genes (ISG), which mediate the antiviral state. Has a restricted receptor distribution and therefore restricted targets: is primarily active in epithelial cells and this cell type- selective action is because of the epithelial cell-specific expression of its receptor IFNLR1. Seems not to be essential for early virus-activated host defense in vaginal infection, but plays an important role in Toll-like receptor (TLR)-induced antiviral defense. Plays a significant role in the antiviral immune defense in the intestinal epithelium. Exerts an immunomodulatory effect by up-regulating MHC class I antigen expression. .

Background: Interferon lambda-2, also called IFNL2 or IL28A is a class II cytokine receptor ligand related to type I interferons. This gene is mapped to 19q13.2. This gene encodes a cytokine distantly related to type I interferons and the IL-10 family. This gene, interleukin 28B(IL28B), and interleukin 29(IL29) are three closely related cytokine genes that form a cytokine gene cluster. It up-regulates MHC class I antigen expression. It also displays antitumor activity. The ligand/receptor complex seems to signal through the Jak-STAT pathway. This gene seems not to be essential for early virus-activated host defense in vaginal infection, but plays an important role in Toll-like receptor(TLR)-induced antiviral defense. It seems play a significant role in the antiviral immune defense in the intestinal epithelium.

Synonyms: Interferon lambda-2,IFN-lambda-2,Cytokine Zcyto20,Interleukin-28A,IL-28A,IFNL2,IL28A, ZCYTO20,

Full Gene Name: Interferon lambda-2

Cellular Localisation: Secreted.

Gene ID: 282616

Target Details

UniProt: [Q8IZJ0](#)

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 lambda interferon family.
Plate:	Pre-coated
Protocol:	human IL-28A ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for IL-28A has been precoated onto 96-well plates. Standards(NSO, V26-V200) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for IL-28A 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 IL-28A 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 IL-28A 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 IL-28A standard solution and each sample be measured in duplicate.

Assay Precision:	<ul style="list-style-type: none">• Sample 1: n=16, Mean(pg/ml): 827, Standard deviation: 36.4, CV(%): 4.4• Sample 2: n=16, Mean(pg/ml): 2815, Standard deviation: 152, CV(%): 5.4• Sample 3: n=16, Mean(pg/ml): 4824, Standard deviation: 289.4, CV(%): 6,• Sample 1: n=24, Mean(pg/ml): 968, Standard deviation: 53.24, CV(%): 5.5• Sample 2: n=24, Mean(pg/ml): 3077, Standard deviation: 206.2, CV(%): 6.7• Sample 3: n=24, Mean(pg/ml): 5167, Standard deviation: 377.2, CV(%): 7.3
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Restrictions:	For Research Use only
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Handling

Handling Advice:	Avoid multiple freeze-thaw cycles.
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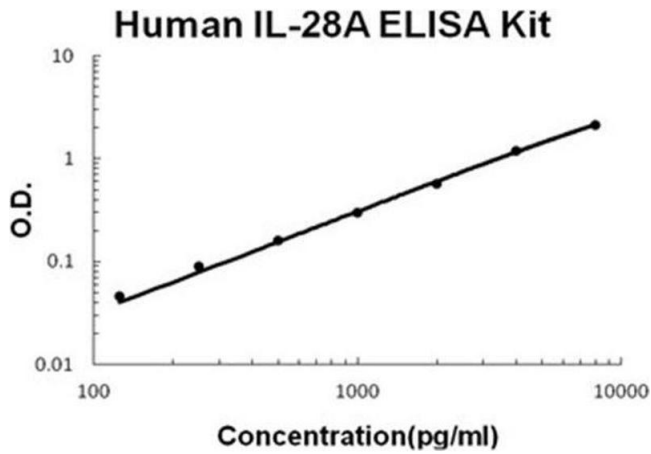
Storage:	-20 °C,4 °C
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Handling

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles

Expiry Date: 12 months

Images



ELISA

Image 1. Human IL-28A PicoKine ELISA Kit standard curve