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Datasheet for ABIN1889297

IL1R2 ELISA Kit

1 Image

Overview

Quantity:	96 tests
Target:	IL1R2
Binding Specificity:	AA 14-343
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 IL1R2
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: sf21 Immunogen sequence: F14-E343
Specificity:	Expression system for standard: sf21 Immunogen sequence: F14-E343
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: IL1R2

Alternative Name: IL1R2 ([IL1R2 Products](#))

Background: Protein Function: Non-signaling receptor for IL1A, IL1B and IL1RN. Reduces IL1B activities. Serves as a decoy receptor by competitive binding to IL1B and preventing its binding to IL1R1. Also modulates cellular response through non-signaling association with IL1RAP after binding to IL1B. IL1R2 (membrane and secreted forms) preferentially binds IL1B and poorly IL1A and IL1RN. The secreted IL1R2 recruits secreted IL1RAP with high affinity, this complex formation may be the dominant mechanism for neutralization of IL1B by secreted/soluble receptors. .

Background: Interleukin 1 receptor, type II(IL1R2) also known as CD121b(Cluster of Differentiation 121b) is an interleukin receptor. The protein encoded by this gene is a cytokine receptor that belongs to the interleukin-1 receptor family. It is mapped to 2q11.2. IL1R2 binds interleukin alpha(IL1A), interleukin beta(IL1B), and interleukin 1 receptor, type I(IL1R1/IL1RA), and acts as a decoy receptor that inhibits the activity of its ligands. IL1R2 also modulates cellular response through non-signaling association with IL1RAP after binding to IL1B. The secreted IL1R2 recruits secreted IL1RAP with high affinity, and this complex formation may be the dominant mechanism for neutralization of IL1B by secreted/soluble receptors.

Synonyms: Interleukin-1 receptor type 2,IL-1R-2,IL-1RT-2,IL-1RT2,CD121 antigen-like family member B,CDw121b,IL-1 type II receptor,Interleukin-1 receptor beta,IL-1R-beta,Interleukin-1 receptor type II,CD121b,Interleukin-1 receptor type 2, membrane form,mIL-1R2,mIL-1RII,Interleukin-1 receptor type 2, soluble form,sIL-1R2,sIL-1RII,IL1R2,IL1RB,

Full Gene Name: Interleukin-1 receptor type 2

Cellular Localisation: Isoform Short: Secreted.

Gene ID: 7850

UniProt: [P27930](#)

Pathways: [NF-kappaB Signaling](#)

Application Details

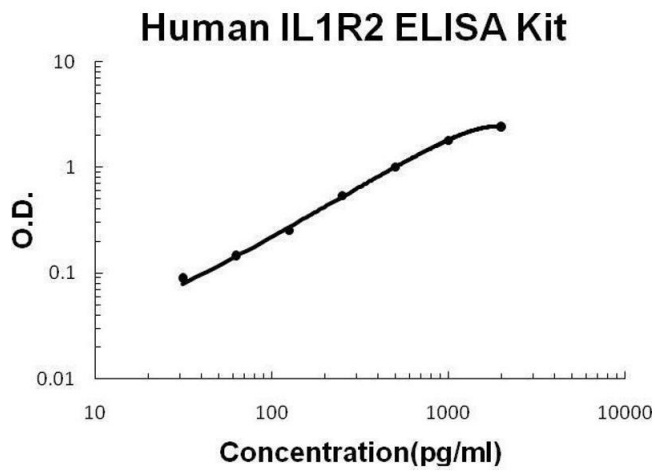
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Belongs to the interleukin-1 receptor family.
Plate:	Pre-coated
Protocol:	human IL1R2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for IL1R2 has been precoated onto 96-well plates. Standards(sf21, F14-E343) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for IL1R2 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 IL1R2 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 IL1R2 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 IL1R2 standard solution and each sample be measured in duplicate.

Assay Precision:	<ul style="list-style-type: none">• Sample 1: n=16, Mean(pg/ml): 85, Standard deviation: 3.91, CV(%): 4.6• Sample 2: n=16, Mean(pg/ml): 392, Standard deviation: 12.2, CV(%): 3.1• Sample 3: n=16, Mean(pg/ml): 750, Standard deviation: 28.5, CV(%): 3.8,• Sample 1: n=24, Mean(pg/ml): 96, Standard deviation: 5.95, CV(%): 6.2• Sample 2: n=24, Mean(pg/ml): 414, Standard deviation: 22.77, CV(%): 5.5• Sample 3: n=24, Mean(pg/ml): 763, Standard deviation: 38.9, CV(%): 5.1
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Restrictions:	For Research Use only
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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 IL1R2 PicoKine ELISA Kit standard curve