Datasheet for ABIN1672882

IL17RC ELISA Kit

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Overview

Quantity:	96 tests
Target:	IL17RC
Binding Specificity:	AA 21-454
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	250-16000 pg/mL
Minimum Detection Limit:	250 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human IL-17RC
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: L21-A454
Specificity:	Expression system for standard: NSO Immunogen sequence: L21-A454
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity:	<15pg/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:	IL17RC
Alternative Name:	IL17RC (IL17RC Products)
Background:	Background: Interleukin-17 receptor C is a protein that in humans is encoded by the IL17RC gene. By genomic sequence analysis, IL17RC gene was mapped to chromosome 3p25.3-p24.1. This gene encodes a single-pass transmembrane protein that shares limited similarity with the interleukin-17 receptor. Multiple alternatively spliced transcript variants encoding different isoforms have been detected for this gene, but the full-length nature of only three have been determined to date. The biologic activity of IL-17 is dependent on a complex composed of IL-17RA and IL-17RC, suggesting a new paradigm for understanding the interactions between the expanded family of IL-17 ligands and their receptors. Synonyms: Interleukin-17 receptor C,IL-17 receptor C,IL-17RC,Interleukin-17 receptor homolog,IL17Rhom,Interleukin-17 receptor-like protein,IL-17RL,ZcytoR14,IL17RC,UNQ6118/PRO20040/PRO38901, Full Gene Name: Interleukin-17 receptor C Cellular Localisation: Cell membrane, Single-pass type I membrane protein. Soluble isoforms may be produced.
Gene ID:	84818
UniProt:	Q8NAC3

Application Details

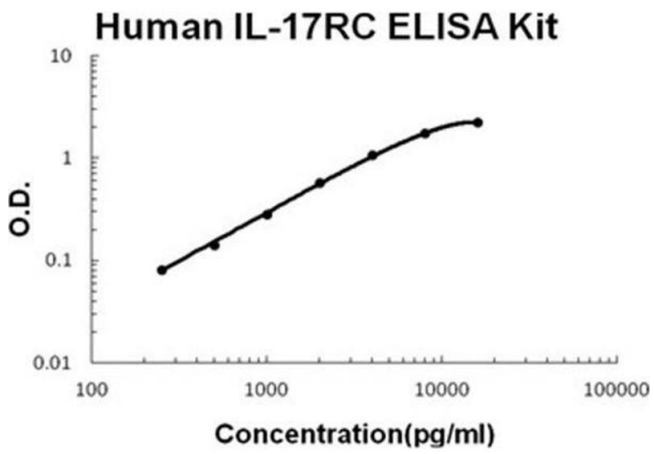
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Tissue Specificity: Expressed in brain, cartilage, colon, heart, intestine, kidney, liver, lung, muscle, placenta, and prostate. Low expression in thymus and leukocytes. Expressed (at protein level) in prostate and prostate cancer, skeletal muscle, kidney and placenta. .

Application Details

Plate:	Pre-coated
Protocol:	human IL-17RC ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for IL-17RC has been precoated onto 96-well plates. Standards(NSO, L21-A454) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for IL-17RC 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-17RC amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 16000pg/mL, 8000pg/mL, 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL human IL-17RC 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-17RC standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(ng/ml): 1.8, Standard deviation: 0.101, CV(%): 5.6 • Sample 2: n=16, Mean(ng/ml): 5, Standard deviation: 0.32, CV(%): 6.4 • Sample 3: n=16, Mean(ng/ml): 9.7, Standard deviation: 0.427, CV(%): 4.4, • Sample 1: n=24, Mean(ng/ml): 2.2, Standard deviation: 0.132, CV(%): 6 • Sample 2: n=24, Mean(ng/ml): 6.2, Standard deviation: 0.428, CV(%): 6.9 • Sample 3: n=24, Mean(ng/ml): 10.3, Standard deviation: 0.546, 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 IL-17RC PicoKine ELISA Kit standard curve