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IL17RC ELISA Kit





Overview

Quantity:	96 tests
Target:	IL17RC
Binding Specificity:	AA 22-440
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	156-10.000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse 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: E22-R440
Specificity:	Expression system for standard: NSO Immunogen sequence: E22-R440
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

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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:	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-like protein,IL-17RL,ZcytoR14,II17rc, Full Gene Name: Interleukin-17 receptor C Cellular Localisation: Membrane, Single-pass type I membrane protein.
Gene ID:	171095
UniProt:	Q8K4C2
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.
Plate:	Pre-coated
Protocol:	mouse IL-17RC ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for IL-17RC has been precoated onto 96-well plates. Standards(NSO, E22-R440) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for IL-17RC is added subsequently

Application Details

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 mouse IL-17RC amount of sample captured in plate.

Assay Procedure:

Aliquot 0.1 mL per well of the 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL mouse 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 mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each mouse IL-17RC standard solution and each sample be measured in duplicate.

Assay Precision:

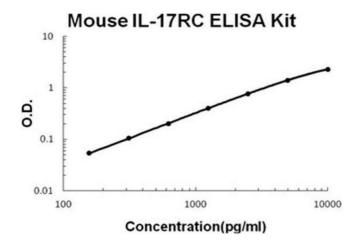
- Sample 1: n=16, Mean(pg/ml): 1458, Standard deviation: 61.24, CV(%): 4.2
- Sample 2: n=16, Mean(pg/ml): 4112, Standard deviation: 267.3, CV(%): 6.5
- Sample 3: n=16, Mean(pg/ml): 6822, Standard deviation: 388.9, CV(%): 5.7,
- Sample 1: n=24, Mean(pg/ml): 1632, Standard deviation: 88.13, CV(%): 5.4
- Sample 2: n=24, Mean(pg/ml): 4473, Standard deviation: 335.5, CV(%): 7.5
- Sample 3: n=24, Mean(pg/ml): 7188, Standard deviation: 488.8, CV(%): 6.8

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. Mouse IL-17RC PicoKine ELISA Kit standard curve