Datasheet for ABIN2859300

IL-25 ELISA Kit

1 Image | 1 Publication

Go to Product page

Overview

Quantity:	96 tests
Target:	IL-25 (IL25)
Binding Specificity:	AA 33-177
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human IL-17E/IL-25
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: Y33-G177
Specificity:	Expression system for standard: E.coli Immunogen sequence: Y33-G177
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:	IL-25 (IL25)
Alternative Name:	IL25 (IL25 Products)
Background:	Protein Function: Induces activation of NF-kappa-B and stimulates production of the proinflammatory chemokine IL-8. Proinflammatory cytokine favoring Th2-type immune responses. Background: Interleukin-25 (IL-25), also known as interleukin-17E (IL-17E), is a protein that in humans is encoded by the IL25 gene. It is a cytokine that belongs to the IL-17 cytokine family and mapped to 14q11.2. IL-25 is secreted by type 2 helper T cells (Th2) and mast cells. It has been found that IL-25 can induce Th2-type cytokine expression and production by non-T, non-B accessory cells that express high levels of major histocompatibility complex class II and low levels of Cd11c. This cytokine also can induce NF-i°B activation, and stimulate the production of IL8. Whatâ€™s more, IL-25 is an important molecule controlling immunity of the gut and has been implicated in chronic inflammation associated with the gastrointestinal tract. Synonyms: Interleukin-25,IL-25,Interleukin-17E,IL-17E,IL25,IL17E,UNQ3120/PRO10272, Full Gene Name: Interleukin-25 Cellular Localisation: Secreted.
Gene ID:	64806
UniProt:	Q9H293

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 IL-17 family. Tissue Specificity: Expressed at low levels in several tissues, including brain, kidney, lung, prostate, testis, spinal cord, adrenal gland, and trachea.

Application Details

Plate:	Pre-coated
Protocol:	human IL-17E ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for IL-17E has been precoated onto 96-well plates. Standards(E.coli, Y33-G177) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for IL-17E 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-17E amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL human IL-17E 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. We recommend that each human IL-17E standard solution and each sample is measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 621, Standard deviation: 24.2, CV(%): 3.9 • Sample 2: n=16, Mean(pg/ml): 1969, Standard deviation: 90.6, CV(%): 4.6 • Sample 3: n=16, Mean(pg/ml): 2795, Standard deviation: 150.9, CV(%): 5.4, • Sample 1: n=24, Mean(pg/ml): 730, Standard deviation: 30.7, CV(%): 4.2 • Sample 2: n=24, Mean(pg/ml): 2103, Standard deviation: 119.9, CV(%): 5.7 • Sample 3: n=24, Mean(pg/ml): 3065, Standard deviation: 208.4, 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

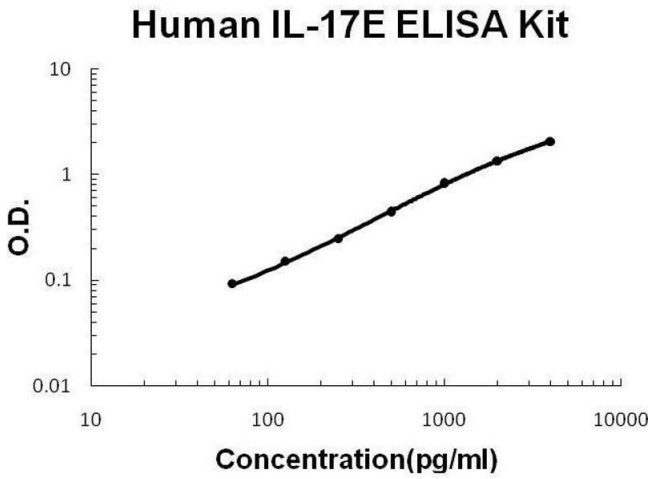
Publications

Product cited in:	Ge, Yu, Liu, Cong, Liu, Wang, Zhou, Lin: "Characterization of bone marrow-derived mesenchymal stem cells from dimethyloxallyl glycine-preconditioned mice: Evaluation of the feasibility of

Publications

dimethyloxallyl glycine as a mobilization agent." in: **Molecular medicine reports**, Vol. 13, Issue 4 , pp. 3498-506, (2016) (PubMed).

Images



ELISA

Image 1. Human IL-17E/IL-25 PicoKine ELISA Kit standard curve