Datasheet for ABIN1672799

IL17F ELISA Kit

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Overview

Quantity:	96 tests
Target:	IL17F
Binding Specificity:	AA 21-153
Reactivity:	Mouse
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 Mouse IL-17F
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: R21-A153
Specificity:	Expression system for standard: E.coli Immunogen sequence: R21-A153
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:	IL17F
Alternative Name:	IL17F (IL17F Products)
Background:	Protein Function: Stimulates the production of other cytokines such as IL- 6, IL-8 and granulocyte colony-stimulating factor, and can regulate cartilage matrix turnover. Stimulates PBMC and T-cell proliferation. Inhibits angiogenesis. Plays a role in the induction of neutrophilia in the lungs and in the exacerbation of antigen-induced pulmonary allergic inflammation. . Background: Interleukin 17F, also called IL17F is involved in the regulation of normal versus aberrant T-cell responses. This gene is mapped to 6p12.2. The protein encoded by this gene is a cytokine that shares sequence similarity with IL17. This cytokine is expressed by activated T cells, and has been shown to stimulate the production of several other cytokines, including IL6, IL8, and CSF2/GM_CSF. This cytokine is also found to inhibit the angiogenesis of endothelial cells and induce endothelial cells to produce IL2, TGFB1/TGFB, and monocyte chemoattractant protein-1. It is suggested that targeting IL17 and IL17F or antagonizing IL17R might mitigate neutrophil-mediated inflammation in CF. Synonyms: Interleukin-17F,IL-17F,Il17f, Full Gene Name: Interleukin-17F Cellular Localisation: Secreted.
Gene ID:	257630
UniProt:	Q7TNI7
Pathways:	Cellular Response to Molecule of Bacterial Origin, Positive Regulation of Endopeptidase Activity

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 by a subset of activated T-cells in the lamina propria. .

Application Details

Plate:	Pre-coated
Protocol:	mouse IL-17F ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for IL-17F has been precoated onto 96-well plates. Standards(E.coli, R21-A153) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for IL-17F 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 mouse IL-17F 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 mouse IL-17F 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-17F standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 307, Standard deviation: 16.58, CV(%): 5.4 • Sample 2: n=16, Mean(pg/ml): 662, Standard deviation: 41.71, CV(%): 6.3 • Sample 3: n=16, Mean(pg/ml): 1017, Standard deviation: 48.82, CV(%): 4.8, • Sample 1: n=24, Mean(pg/ml): 345, Standard deviation: 21.05, CV(%): 6.1 • Sample 2: n=24, Mean(pg/ml): 759, Standard deviation: 56.93, CV(%): 7.5 • Sample 3: n=24, Mean(pg/ml): 1283, Standard deviation: 75.7, CV(%): 5.9
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

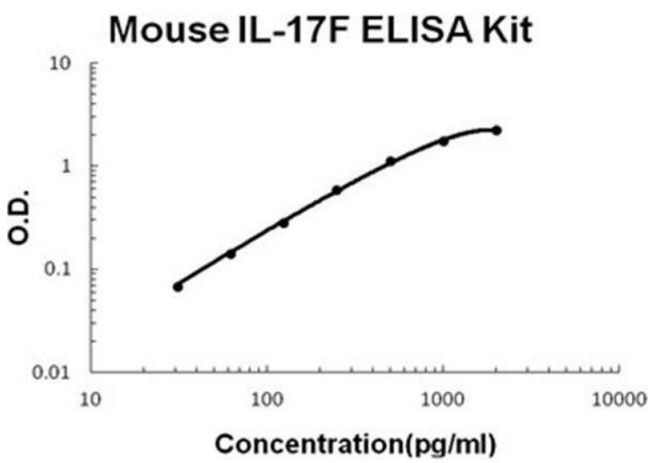
Publications

Product cited in:	Sancakdar, Guven, Uysal, Deveci, Gültürk: "Important of Angiopoietic System in Evaluation of Endothelial Damage in Children with Crimean-Congo Hemorrhagic Fever." in: **The Pediatric**

Publications

infectious disease journal, Vol. 34, Issue 8, pp. e200-5, (2015) (PubMed).

Images



ELISA

Image 1. Mouse IL-17F PicoKine ELISA Kit standard curve