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Datasheet for ABIN1706083 IL17F ELISA Kit

1 Image

1 Publication



Overview

Quantity:	96 tests
Target:	IL17F
Binding Specificity:	AA 19-153
Reactivity:	Rat
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 Rat 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: A19-A153
Specificity:	Expression system for standard: E.coli Immunogen sequence: A19-A153
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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Product D)etails
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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

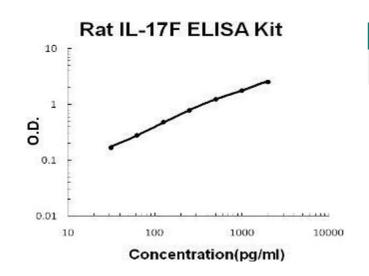
Target:	IL17F
Alternative Name:	IL17F (IL17F Products)
Background:	Protein Function: Stimulates the production of other cytokines such as IL- 6, IL-8 and
	granulocyte colony-stimulating factor, and can regulate cartilage matrix turnover. Stimulates
	PBMC and T-cell proliferation. Inhibits angiogenesis (By similarity)
	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,II17f,
	Full Gene Name: Interleukin-17F
	Cellular Localisation: Secreted.
Gene ID:	301291
UniProt:	Q5BJ95
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:	Sequence similarities: Belongs to the IL-17 family.
Plate:	Pre-coated

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Application Details	
Protocol:	rat IL-17F ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for IL-17F has been precoated onto 96-well plates. Standards(E.coli, A19-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 rat 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 rat 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 rat cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each rat IL-17F standard solution and each sample be measured in duplicate.
Assay Precision:	 Sample 1: n=16, Mean(pg/ml): 275, Standard deviation: 12.93, CV(%): 4.7 Sample 2: n=16, Mean(pg/ml): 524, Standard deviation: 32.5, CV(%): 6.2 Sample 3: n=16, Mean(pg/ml): 928, Standard deviation: 52, CV(%): 5.6, Sample 1: n=24, Mean(pg/ml): 352, Standard deviation: 17.6, CV(%): 5 Sample 2: n=24, Mean(pg/ml): 723, Standard deviation: 52.78, CV(%): 7.3 Sample 3: n=24, Mean(pg/ml): 1230, Standard deviation: 83.64, CV(%): 6.8
Restrictions: Handling	For Research Use only
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: Publications	12 months
Product cited in:	McAllister, Henry, Kreindler, Dubin, Ulrich, Steele, Finder, Pilewski, Carreno, Goldman, Pirhonen, Kolls et al.: "Role of IL-17A, IL-17F, and the IL-17 receptor in regulating growth-related oncogene-alpha and granulocyte colony-stimulating factor in bronchial epithelium: implications

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Images



ELISA

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