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## Datasheet for ABIN411315 Interleukin 17a ELISA Kit

1 Image

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#### Overview

Quantity:	96 tests
Target:	Interleukin 17a (IL17A)
Binding Specificity:	AA 22-158
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	15.6-1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

## Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse IL-17
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: T22-A158
Specificity:	Expression system for standard: E.coli Immunogen sequence: T22-A158
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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### Product Details

Sensitivity:	<1pg/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:	Interleukin 17a (IL17A)
Alternative Name:	IL17A (IL17A Products)
Background:	Background: IL-17 is an inflammatory cytokine produced primarily by a unique lineage of CD4 T
	cells that plays critical roles in the pathogenesis of multiple autoimmune diseases. Interleukin-
	17 is expressed by activated T cells and is 57 % identical to the 17- to 26-kD secretory
	glycoprotein encoded by gene 13 of the herpesvirus saimiri(HVS-13). IL17 induces nuclear
	factor kappa-B and the expression of IL6, intercellular adhesion molecule-1, granulocyte
	macrophage colony-stimulating factor,and prostaglandin E2, as well as the maturation of CD34
	positive hematopoietic precursors into neutrophils. Anti-IL17 antibodies significantly inhibited
	osteoclast formation induced by culture media of RA synovial tissues. The standard product
	used in this kit is recombinant mouse IL-17, consisting of 137 amino acids with the molecular
	mass of 15.5KDa.
	Synonyms: Interleukin 17A ,II17a ,II17 ,mCG_7914 ,
	Full Gene Name: interleukin 17A
Gene ID:	16171
UniProt:	Q544E6
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-17 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay
	technology. A monoclonal antibody from rat specific for IL-17 has been precoated onto 96-well
	plates. Standards(E.coli, T22-A158) and test samples are added to the wells, a biotinylated

detection polyclonal antibody from goat specific for IL-17 is added subsequently and then

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## Application Details

	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-17 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL,
	31.2pg/mL, 15.6pg/mL mouse IL-17 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-17 standard solution and each sample be measured in duplicate.
Assay Precision:	Sample 1: n=16, Mean(pg/ml): 83, Standard deviation: 3.82, CV(%): 4.6
	<ul> <li>Sample 2: n=16, Mean(pg/ml): 372, Standard deviation: 20.46, CV(%): 5.5</li> </ul>
	<ul> <li>Sample 3: n=16, Mean(pg/ml): 623, Standard deviation: 37.38, CV(%): 6,</li> </ul>
	<ul> <li>Sample 1: n=24, Mean(pg/ml): 103, Standard deviation: 5.46, CV(%): 5.3</li> </ul>
	<ul> <li>Sample 2: n=24, Mean(pg/ml): 418, Standard deviation: 25.92, CV(%): 6.2</li> <li>Sample 3: n=24, Mean(pg/ml): 737, Standard deviation: 50.12, CV(%): 6.8</li> </ul>
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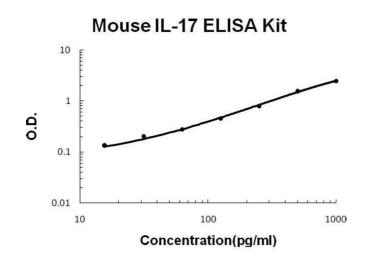
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There are more publications referencing this product on: Product page





#### **ELISA**

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