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Datasheet for ABIN411313 IL-15 ELISA Kit

Image



### Overview

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Quantity:	96 tests
Target:	IL-15 (IL15)
Binding Specificity:	AA 49-162
Reactivity:	Human
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 Human IL-15
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: N49-S162
Specificity:	Expression system for standard: E.coli
	Immunogen sequence: N49-S162
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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## Product Details

Sensitivity:	<3pg/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

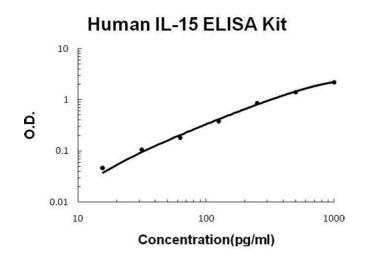
# Target Details

Target:	IL-15 (IL15)
Alternative Name:	IL15 (IL15 Products)
Background:	Protein Function: Cytokine that stimulates the proliferation of T- lymphocytes. Stimulation by IL
	15 requires interaction of IL-15 with components of IL-2R, including IL-2R beta and probably IL-
	2R gamma but not IL-2R alpha.
	Background: Interleukin(IL)-15 is a cytokine with the ability to stimulate the proliferation activity
	of Th1 and/or Th2 lymphocytes. IL-15 is a novel cytokine whose effects on T-cell activation and
	proliferation are similar to those of interleukin-2(IL-2), presumably because IL-15 utilizes the
	beta and gamma chains of the IL-2 receptor. IL-15 can play a role in the initiation and outcome
	of acute and chronic rejection. Anti-IL-15 therapy in combination with classic
	immunosuppression therapy might thus be beneficial in the prevention of acute, and especially
	chronic, allograft rejection. The human IL15 gene is mapped to human chromosome 4q31 by
	fluorescence in situ hybridization.1 The standard product used in this kit is recombinant humar
	IL-15, consisting of 114 amino acids with the molecular mass of 12.9KDa.
	Synonyms: Interleukin-15,IL-15,IL15,
	Full Gene Name: Interleukin-15
	Cellular Localisation: Isoform IL15-S48AA: Secreted.
Gene ID:	3600
UniProt:	P40933
Pathways:	JAK-STAT Signaling, Glycosaminoglycan Metabolic Process
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-15/IL-21 family.

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Plate:	Pre-coated
Protocol:	human IL-15 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay
	technology. A monoclonal antibody from mouse specific for IL-15 has been precoated onto 96-
	well plates. Standards(E.coli, N49-S162) and test samples are added to the wells, a biotinylated
	detection polyclonal antibody from goat specific for IL-15 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-15 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,
	31.3pg/mL, 15.6pg/mL human IL-15 standard solutions into the pre-coated 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-15 standard solution and each sample is measured in duplicate.
Assay Precision:	Sample 1: n=16, Mean(pg/ml): 125, Standard deviation: 5.25, CV(%): 4.2
	<ul> <li>Sample 2: n=16, Mean(pg/ml): 372, Standard deviation: 18.23, CV(%): 4.9</li> </ul>
	<ul> <li>Sample 3: n=16, Mean(pg/ml): 603, Standard deviation: 31.36, CV(%): 5.2,</li> <li>Sample 1: n - 24, Maan (an (ml): 170, Standard deviation: 0.01, O)/(%): 5.2,</li> </ul>
	<ul> <li>Sample 1: n=24, Mean(pg/ml): 170, Standard deviation: 9.01, CV(%): 5.3</li> <li>Sample 2: n=24, Mean(pg/ml): 418, Standard deviation: 27.17, CV(%): 6.5</li> </ul>
	<ul> <li>Sample 3: n=24, Mean(pg/ml): 679, Standard deviation: 48.21, CV(%): 7.1</li> </ul>
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

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#### ELISA

Image 1. Human IL-15 PicoKine ELISA Kit standard curve

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