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Datasheet for ABIN411297 IL-3 ELISA Kit

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Overview

Quantity:	96 tests
Target:	IL-3
Binding Specificity:	AA 20-152
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-3
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Plasma (citrate)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: A20-F152
Specificity:	Expression system for standard: E.coli,A20-F152
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<1pg/mL

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Product Details

Material not included:Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipettetips. 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-3
Alternative Name:	IL3 (IL-3 Products)
Background:	Protein Function: Granulocyte/macrophage colony-stimulating factors are cytokines that act ir
	hematopoiesis by controlling the production, differentiation, and function of 2 related white cel
	populations of the blood, the granulocytes and the monocytes-macrophages.
	Background: The gene IL-3 encodes interleukin 3, a hematopoietic colony-stimulating
	factor(CSF) that is capable of supporting the proliferation of a broad range of hematopoietic
	cell types. Interleukin-3(IL-3), a protein of 140 amino acids, is chemically synthesized by means
	of an automated peptide synthesizer and is shown to have the biological activities attributed to
	native IL-3. The cDNA sequence for murine interleukin-3, one of the colony stimulating factors
	that regulate haematopoiesis, codes for a polypeptide of 166 amino acids including a putative
	signal peptide. The mouse IL 3 gene is located on chromosome 11. The human gene encoding
	IL 3 is tandemly arrayed on the long arm of chromosome 5. The standard product used in this
	kit is recombinant human IL-3, consisting of 133 amino acids with the molecular mass of
	15KDa.
	Synonyms: Interleukin-3,IL-3,Hematopoietic growth factor,Mast cell growth
	factor,MCGF,Multipotential colony-stimulating factor,P-cell-stimulating factor,IL3,
	Full Gene Name: Interleukin-3
	Cellular Localisation: Secreted.
Gene ID:	3562
UniProt:	P08700
Pathways:	JAK-STAT Signaling, Regulation of Carbohydrate Metabolic Process, Autophagy
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-3 family.

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Application Details

	Tissue Specificity: Activated T-cells, mast cells, natural killer cells.
Plate:	Pre-coated
Protocol:	human IL-3 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for IL-3 has been precoated onto 96- well plates. Standards (E.coli,A20-F152) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for IL-3 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-3 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 human IL-3 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, citrate) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human IL-3 standard solution and each sample be measured in duplicate.
Assay Precision:	 Sample 1: n=16, Mean(pg/ml): 95, Standard deviation: 4.56, CV(%): 4.8 Sample 2: n=16, Mean(pg/ml): 323, Standard deviation: 12.6, CV(%): 3.9 Sample 3: n=16, Mean(pg/ml): 590, Standard deviation: 21.83, CV(%): 3.7, Sample 1: n=24, Mean(pg/ml): 108, Standard deviation: 8.75, CV(%): 8.1 Sample 2: n=24, Mean(pg/ml): 372, Standard deviation: 24.18, CV(%): 6.5 Sample 3: n=24, Mean(pg/ml): 625, Standard deviation: 33.75, CV(%): 5.4
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

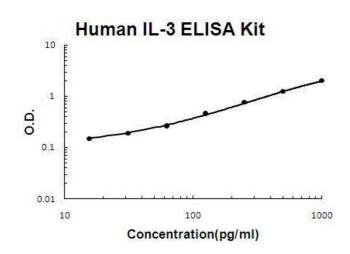
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Images



ELISA

Image 1. Human IL-3 PicoKine ELISA Kit standard curve