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Datasheet for ABIN921062 IL-2 ELISA Kit

1 Image

17 Publications



Overview

Quantity:	96 tests
Target:	IL-2 (IL2)
Binding Specificity:	AA 21-155
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-2
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: A21-Q155
Specificity:	Expression system for standard: E.coli,A21-Q155
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 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-2 (IL2)
Alternative Name:	IL2 (IL2 Products)
Background:	Protein Function: Produced by T-cells in response to antigenic or mitogenic stimulation, this protein is required for T-cell proliferation and other activities crucial to regulation of the immune response. Can stimulate B-cells, monocytes, lymphokine- activated killer cells, natural killer cells, and glioma cells. Background: Interleukin-2(IL2), formerly referred to as T-cell growth factor, is a powerfully immunoregulatory lymphokine that is produced by lectin- or antigen-activated T cells. It is produced not only by mature T lymphocytes on stimulation but also constitutively by certain T-cell lymphoma cell lines. The lymphokine interleukin-2(IL-2) is responsible for autocrine cell cycle progression and regulation of immune responses. IL-2 expression in mature thymocytes and T cells has been found to be tightly controlled by monoallelic expression. IL-2 can act as a growth hormone for both B and T lymphocytes. The human gene for interleukin 2(IL2) is assigned to chromosome 4. Synonyms: Interleukin-2,IL-2,T-cell growth factor,TCGF,II2,II-2, Full Gene Name: Interleukin-2 Cellular Localisation: Secreted.
Gene ID:	116562
UniProt:	P17108
Pathways:	JAK-STAT Signaling, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response, Activated T Cell Proliferation
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

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Application Details	
Protocol:	rat IL-2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for IL-2 has been precoated onto 96- well plates. Standards (E.coli,A21-Q155) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for IL-2 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-2 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-2 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, citrate) to each empty well. See "Sample Dilution Guideline" above for details. We recommend that each rat IL-2 standard solution and each sample is measured in duplicate.
Assay Precision:	 Sample 1: n=16, Mean(pg/ml): 102, Standard deviation: 4.18, CV(%): 4.1 Sample 2: n=16, Mean(pg/ml): 761, Standard deviation: 22.07, CV(%): 2.9 Sample 3: n=16, Mean(pg/ml): 1464, Standard deviation: 51.24, CV(%): 3.5, Sample 1: n=24, Mean(pg/ml): 98.7, Standard deviation: 8, CV(%): 8.1 Sample 2: n=24, Mean(pg/ml): 772, Standard deviation: 57.13, CV(%): 7.4 Sample 3: n=24, Mean(pg/ml): 1345, Standard deviation: 83.39, CV(%): 6.2
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:	Romano, Chiaro, Lucarelli, Santarelli, Cucchiara, Guadagnini, Miele, Di Nardo: "Mucosal cytokine profiles in paediatric eosinophilic oesophagitis: A case-control study." in: Digestive and liver

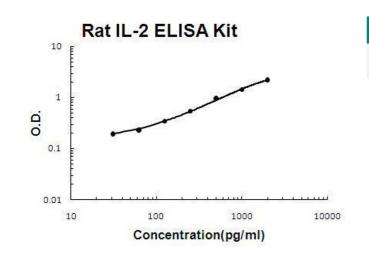
disease : official journal of the Italian Society of Gastroenterology and the Italian

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Association for the Study of the Liver, (2014) (PubMed).

There are more publications referencing this product on: Product page

Images



ELISA

Image 1. Rat IL-2 PicoKine ELISA Kit standard curve