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Datasheet for ABIN411302 IL-5 ELISA Kit

1 Image

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Overview

Quantity:	96 tests
Target:	IL-5 (IL5)
Binding Specificity:	AA 21-133
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-5
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: sf21 Immunogen sequence: M21-G133
Specificity:	Expression system for standard: sf21 Immunogen sequence: M21-G133
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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Product Details

Sensitivity:	<2pg/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-5 (IL5)
Alternative Name:	IL5 (IL5 Products)
Background:	Protein Function: Factor that induces terminal differentiation of late- developing B-cells to
	immunoglobulin secreting cells.
	Background: Interleukin-5(IL-5) is also known as eosinophil differentiation factor(EDF). IL-5 is a
	potential candidate gene in the pathogenesis of asthma, as it is the main cytokine controlling
	eosinophil activity and eosinophils are pivotal in the development of airway inflammation. The
	predicted amino acid sequence of 134 amino acids is identical with that recently reported for
	human interleukin-5 but shows no significant homology with other known hemopoietic growth
	regulators. IL-5 is a lineage-specific hematopoietic growth factor that stimulates the production
	of eosinophils and eosinophil colonies from normal human bone marrow cells. IL-5 gene to
	human chromosome 5 at bands q23-31. Human and mouse of IL-5 share 70 % amino acid
	sequence homology.
	Synonyms: Interleukin-5,IL-5,B-cell growth factor II,BCGF-II,Cytotoxic T-lymphocyte
	inducer,Eosinophil differentiation factor,T-cell replacing factor,TRF,II5,II-5,
	Full Gene Name: Interleukin-5
	Cellular Localisation: Secreted.
Gene ID:	16191
UniProt:	P04401
Pathways:	JAK-STAT Signaling, Positive Regulation of Peptide Hormone Secretion, Production of
	Molecular Mediator of Immune Response, Feeding Behaviour

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.

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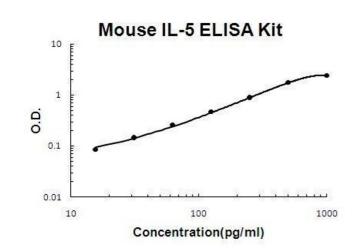
Application Details	
Plate:	Pre-coated
Protocol:	mouse IL-5 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for IL-5 has been precoated onto 96-well plates. Standards(sf21, M21-G133) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for IL-5 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 mouse IL-5 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-5 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 or serum to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each mouse IL-5 standard solution and each sample be measured in duplicate.
Assay Precision:	 Sample 1: n=16, Mean(pg/ml): 96.3, Standard deviation: 5.68, CV(%): 5.9 Sample 2: n=16, Mean(pg/ml): 369, Standard deviation: 15.5, CV(%): 4.2 Sample 3: n=16, Mean(pg/ml): 721, Standard deviation: 24.51, CV(%): 3.4, Sample 1: n=24, Mean(pg/ml): 110, Standard deviation: 7.26, CV(%): 6.6 Sample 2: n=24, Mean(pg/ml): 387, Standard deviation: 23.61, CV(%): 6.1 Sample 3: n=24, Mean(pg/ml): 675, Standard deviation: 37.8, CV(%): 5.6
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:	Fernández, Baldassarro, Sivilia, Giardino, Calzà: "Inflammation severely alters thyroid hormone signaling in the central nervous system during experimental allergic encephalomyelitis in rat:

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Vidart, Wajner, Leite, Manica, Schaan, Larsen, Maia: "N-acetylcysteine administration prevents nonthyroidal illness syndrome in patients with acute myocardial infarction: a randomized clinical trial." in: **The Journal of clinical endocrinology and metabolism**, Vol. 99, Issue 12, pp. 4537-45, (2014) (PubMed).

There are more publications referencing this product on: Product page

Images



ELISA

Image 1. Mouse IL-5 PicoKine ELISA Kit standard curve