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Datasheet for ABIN1889375

Thymic Stromal Lymphopoietin ELISA Kit

1 Image

Overview

Quantity:	96 tests
Target:	Thymic Stromal Lymphopoietin (TSLP)
Binding Specificity:	AA 20-140
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 TSLP
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: Y20-E140
Specificity:	Expression system for standard: NSO Immunogen sequence: Y20-E140
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity: <10pg/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: Thymic Stromal Lymphopoietin (TSLP)

Alternative Name: TSLP ([TSLP Products](#))

Background: Protein Function: Cytokine that induces the release of T-cell-attracting chemokines from monocytes and, in particular, enhances the maturation of CD11c(+) dendritic cells. Can induce allergic inflammation by directly activating mast cells (By similarity). .

Background: Thymic stromal lymphopoietin, also called TSLP, is a protein belonging to the cytokine family. This gene is mapped to 5q22.1. It encodes a hemopoietic cytokine proposed to signal through a heterodimeric receptor complex composed of the thymic stromal lymphopoietin receptor and the IL-7R alpha chain. It mainly impacts myeloid cells and induces the release of T cell-attracting chemokines from monocytes and enhances the maturation of CD11c(+) dendritic cells. The protein promotes T helper type 2 (TH2) cell responses that are associated with immunity in various inflammatory diseases, including asthma, allergic inflammation and chronic obstructive pulmonary disease. The protein is therefore considered a potential therapeutic target for the treatment of such diseases.

Synonyms: Thymic stromal lymphopoietin, Thymic stroma-derived lymphopoietin, Tslp,
Full Gene Name: Thymic stromal lymphopoietin

Gene ID: 53603

UniProt: [Q9JIE6](#)

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 TSLP ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for TSLP has been precoated onto 96-well

Application Details

plates. Standards(NSO, Y20-E140) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for TSLP 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 TSLP 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 TSLP 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 TSLP standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 98, Standard deviation: 3.8, CV(%): 3.9
- Sample 2: n=16, Mean(pg/ml): 338, Standard deviation: 13.86, CV(%): 4.1
- Sample 3: n=16, Mean(pg/ml): 764, Standard deviation: 34.38, CV(%): 4.5,
- Sample 1: n=24, Mean(pg/ml): 139, Standard deviation: 6.53, CV(%): 4.7
- Sample 2: n=24, Mean(pg/ml): 462, Standard deviation: 25.87, CV(%): 5.6
- Sample 3: n=24, Mean(pg/ml): 732, Standard deviation: 46.12, CV(%): 6.3

Restrictions: For Research Use only

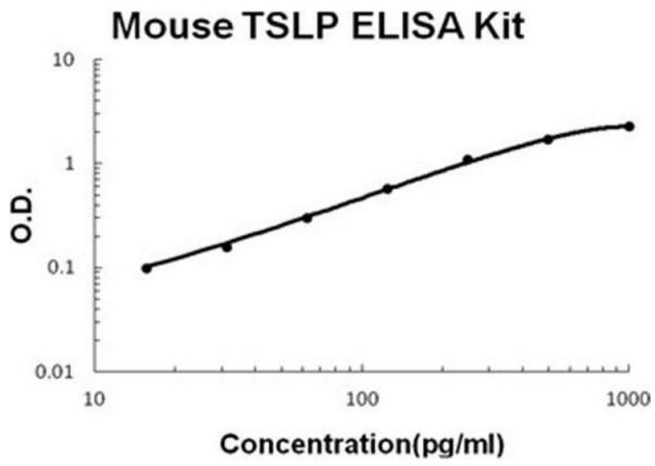
Handling

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



ELISA

Image 1. Mouse TSLP PicoKine ELISA Kit standard curve