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Thymic Stromal Lymphopoietin ELISA Kit



Image



Overview

| Quantity: | 96 tests |
|--------------------------|-------------------------------------|
| Target: | Thymic Stromal Lymphopoietin (TSLP) |
| Binding Specificity: | AA 29-159 |
| Reactivity: | Human |
| 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 Human TSLP |
|-----------------------------|--|
| 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: Y29-Q159 |
| Specificity: | Expression system for standard: E.coli Immunogen sequence: Y29-Q159 |
| Cross-Reactivity (Details): | There is no detectable cross-reactivity with other relevant proteins. |
| | |

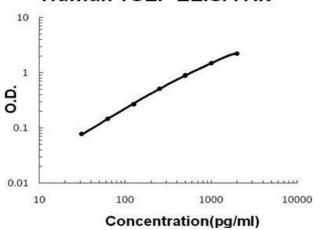
Product Details

| 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 th |
| | 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: Isoform 1: 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 |
| | 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,TSLP, |
| | Full Gene Name: Thymic stromal lymphopoietin |
| | Cellular Localisation: Secreted. |
| Gene ID: | 85480 |
| UniProt: | Q969D9 |
| 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: | Tissue Specificity: Isoform 1 is expressed in a number of tissues including heart, liver and |
| | prostate. Isoform 2 is the predominant form in keratinocytes of oral mucosa, skin and in |
| | salivary glands. It is secreted into saliva |

Application Details

| Plate: | Pre-coated |
|------------------|--|
| Protocol: | human TSLP ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for TSLP has been precoated onto 96-well plates. Standards(E.coli, Y29-Q159) 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 human TSLP 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 human 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 human cell culture supernates, serum and plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human TSLP standard solution and each sample be measured in duplicate. |
| Assay Precision: | Sample 1: n=16, Mean(pg/ml): 258, Standard deviation: 23.99, CV(%): 9.3 Sample 2: n=16, Mean(pg/ml): 762, Standard deviation: 57.15, CV(%): 7.5 Sample 3: n=16, Mean(pg/ml): 1229, Standard deviation: 103.24, CV(%): 8.4, Sample 1: n=24, Mean(pg/ml): 262, Standard deviation: 25.41, CV(%): 9.7 Sample 2: n=24, Mean(pg/ml): 770, Standard deviation: 58.52, CV(%): 7.6 Sample 3: n=24, Mean(pg/ml): 1335, Standard deviation: 117.48, CV(%): 8.8 |
| 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 |

Human TSLP ELISA Kit



ELISA

Image 1. Human TSLP PicoKine ELISA Kit standard curve