antibodies -online.com







IL-13 ELISA Kit





Publication



Overview

| Quantity: | 96 tests |
|--------------------------|-----------------|
| Target: | IL-13 (IL13) |
| Binding Specificity: | AA 21-132 |
| Reactivity: | Human |
| Method Type: | Sandwich ELISA |
| Detection Range: | 15.6-1000 pg/mL |
| Minimum Detection Limit: | 15.6 pg/mL |
| Application: | ELISA |

Product Details

| IL-13 |
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Product Details

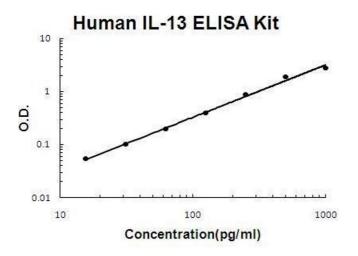
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|------------------------|--|--|
| Sensitivity: | <10pg/mL | |
| Material not included: | Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large 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: | IL-13 (IL13) | |
| Alternative Name: | IL13 (IL13 Products) | |
| Background: | Protein Function: Cytokine. Inhibits inflammatory cytokine production. Synergizes with IL2 in | |
| | regulating interferon-gamma synthesis. May be critical in regulating inflammatory and immune responses. | |
| | Background: Interleukin 13 (IL-13) is a protein that in humans is encoded by the IL13 gene. IL-13 | |
| | is cytokine secreted by many cell types, but especially T helper type 2 (Th2) cells which is an | |
| | important mediator of allergic inflammation and disease. IL-13 induces its effects through a | |
| | multi-subunit receptor that includes the alpha chain of the IL-4 receptor (IL-4R alpha) and at | |
| | least one of two known IL-13-specific binding chains. Most of the biological effects of IL-13, like | |
| | those of IL-4, are linked to a single transcription factor, signal transducer and activator of | |
| | transcription 6 (STAT6). The IL13 gene is clustered with IL3, IL5, IL4, and CSF2 on 5q. | |
| | Synonyms: Interleukin-13,IL-13,IL13,NC30, | |
| | Full Gene Name: Interleukin-13 | |
| | Cellular Localisation: Secreted. | |
| Gene ID: | 3596 | |
| UniProt: | P35225 | |
| Pathways: | JAK-STAT Signaling, Positive Regulation of Immune Effector Process, Production of Molecular | |
| | Mediator of Immune Response, Proton Transport | |
| Application Details | | |
| Application Notes: | Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well | |
| Oarranant | assay was recommended for both standard and sample testing. | |
| Comment: | Sequence similarities: Belongs to the IL-4/IL-13 family. | |
| Plate: | Pre-coated | |

Application Details

| Protocol: | human IL-13 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay |
|-------------------|---|
| | technology. A monoclonal antibody from mouse specific for IL-13 has been precoated onto 96- |
| | well plates. Standards(E.coli, G21-N132) and test samples are added to the wells, a biotinylated |
| | detection polyclonal antibody from goat specific for IL-13 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-13 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, |
| | 31.3pg/mL, 15.6pg/mL human IL-13 standard solutions into the pre-coated 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) to |
| | each empty well. See "Sample Dilution Guideline" above for details. We recommend that each |
| | human IL-13 standard solution and each sample is measured in duplicate. |
| Assay Precision: | • Sample 1: n=16, Mean(pg/ml): 98, Standard deviation: 4.02, CV(%): 4.1 |
| | Sample 2: n=16, Mean(pg/ml): 340, Standard deviation: 10.88, CV(%): 3.2 |
| | • Sample 3: n=16, Mean(pg/ml): 497, Standard deviation: 19.38, CV(%): 3.9, |
| | Sample 1: n=24, Mean(pg/ml): 115, Standard deviation: 8.28, CV(%): 7.2 |
| | Sample 2: n=24, Mean(pg/ml): 354, Standard deviation: 19.82, CV(%): 5.6 Sample 3: n=24, Mean(pg/ml): 512, Standard deviation: 29.7, CV(%): 5.8 |
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| 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: | Motawi, Mahdy, El-Sawalhi, Ali, El-Telbany: "Serum levels of chemerin, apelin, vaspin, and |
| | omentin-1 in obese type 2 diabetic Egyptian patients with coronary artery stenosis." in: |
| | Canadian journal of physiology and pharmacology, Vol. 96, Issue 1, pp. 38-44, (2018) (PubMed |

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Images



ELISA

Image 1. Human IL-13 PicoKine ELISA Kit standard curve