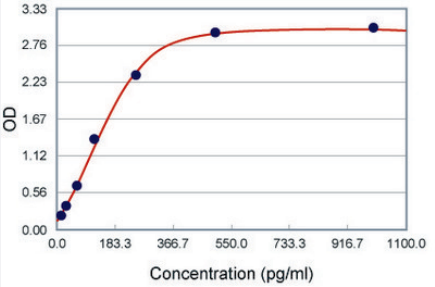
# IL5 (Human) ELISA Kit

Catalog # KA0987 Size 1 Kit

## Applications




The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

## Specification

| | |
|---|---|
| **Product Description** | IL5 (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human IL5. |
| **Suitable Sample** | Cell culture supernates, Plasma (heparin, EDTA), Serum and Urine |
| **Sample Volume** | 100 uL |
| **Label** | HRP-conjugated |
| **Detection Method** | Colorimetric |
| **Assay Type** | Quantitative |
| **Calibration Range** | 7.8 to 500 pg/mL |
| **Reactivity** | Human |
| **Regulation Status** | For research use only (RUO) |
| **Storage Instruction** | Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles. |

## Applications

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- Quantification

## Gene Info — IL5

| | |
|---|---|
| **Entrez GeneID** | 3567 |
| **Gene Name** | IL5 |
| **Gene Alias** | EDF, IL-5, TRF |
| **Gene Description** | interleukin 5 (colony-stimulating factor, eosinophil) |
| **Omim ID** | 147850 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is a cytokine that acts as a growth and differentiation factor for both B cells and eosinophils. This cytokine is a main regulator of eosinopoiesis, eosinophil matur ation and activation. The elevated production of this cytokine is reported to be related to asthma o r hypereosinophilic syndromes. The receptor of this cytokine is a heterodimer, whose beta subunit is shared with the receptors for interleukine 3 (IL3) and colony stimulating factor 2 (CSF2/GM-CS F). This gene, together with those for interleukin 4 (IL4), interleukin 13 (IL13), and CSF2, form a cy tokine gene cluster on chromosome 5. This cytokine, IL4, and IL13 are found to be regulated coor dinately by long-range regulatory elements spread over 120 kilobases on chromosome 5q31. [pro vided by RefSeq |
| **Other Designations** | B cell differentiation factor I\|OTTHUMP00000065830\|T-cell replacing factor\|eosinophil differentiati on factor\|interleukin 5\|interleukin-5 |

## Publication Reference


- Mutation analysis of interleukin-5 in an asthmatic cohort.

  Pereira E, Goldblatt J, Rye P, Sanderson C, Le Souef P.

  Human Mutation 1998 Jan; 11(1):51.

- Interleukin-4 and interleukin-5 map to human chromosome 5 in a region encoding growth factors and receptors and are deleted in myeloid leukemias with a del(5q).

  Le Beau MM, Lemons RS, Espinosa R 3rd, Larson RA, Arai N, Rowley JD.

  Blood 1989 Feb; 73(3):647.


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- Molecular cloning, nucleotide sequence, and expression of the gene encoding human eosinophil differentiation factor (interleukin 5).

  Campbell HD, Tucker WQ, Hort Y, Martinson ME, Mayo G, Clutterbuck EJ, Sanderson CJ, Young IG.

  PNAS 1987 Oct; 84(19):6629.

## Pathway

- Allograft rejection
- Asthma
- Autoimmune thyroid disease
- Cytokine-cytokine receptor interaction
- Fc epsilon RI signaling pathway
- Hematopoietic cell lineage
- Jak-STAT signaling pathway
- T cell receptor signaling pathway

## Disease

- Adenocarcinoma
- Asthma
- Bacteremia
- Biliary Tract Neoplasms
- Breast Neoplasms
- Bronchial Hyperreactivity
- Bronchiolitis
- Carcinoma
- Cardiovascular Diseases
- Celiac Disease

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- Chorioamnionitis
- Colitis
- Connective Tissue Diseases
- Crohn Disease
- Dermatitis
- Diabetes Mellitus
- Ductus Arteriosus
- Edema
- Eosinophilia
- Esophageal Neoplasms
- Fetal Diseases
- Fetal Membranes
- Genetic Predisposition to Disease
- Helicobacter Infections
- Helminthiasis
- Hematologic Diseases
- Hodgkin Disease
- Hypersensitivity
- Hypertension
- Infant
- Infection
- Inflammation
- Inflammatory Bowel Diseases
- Kidney Failure
- Lung Neoplasms
- Lupus Erythematosus

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- Lymphoma
- Lymphoproliferative Disorders
- Malaria
- Multiple Myeloma
- Multiple Sclerosis
- Musculoskeletal Diseases
- Nasal Polyps
- Obstetric Labor
- Occupational Diseases
- Pain
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prostatic Neoplasms
- Respiratory Syncytial Virus Infections
- Rhinitis
- Schistosomiasis japonica
- Schizophrenia
- Skin Diseases
- Stomach Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome

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