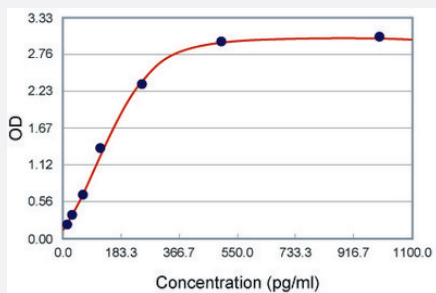


IL5 (Human) ELISA Kit

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 μ L
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

- 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 maturation and activation. The elevated production of this cytokine is reported to be related to asthma or hypereosinophilic syndromes. The receptor of this cytokine is a heterodimer, whose beta subunit is shared with the receptors for interleukin 3 (IL3) and colony stimulating factor 2 (CSF2/GM-CSF). This gene, together with those for interleukin 4 (IL4), interleukin 13 (IL13), and CSF2, form a cytokine gene cluster on chromosome 5. This cytokine, IL4, and IL13 are found to be regulated coordinately by long-range regulatory elements spread over 120 kilobases on chromosome 5q31. [provided by RefSeq]

Other Designations

B cell differentiation factor 1|OTTHUMP00000065830|T-cell replacing factor|eosinophil differentiation 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.

- [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](#)

- [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](#)

- [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](#)