

IL5 monoclonal antibody, clone JES1-5A10

Catalog # MAB3294 Size 500 ug

Specification

Product Description	Rat monoclonal antibody raised against recombinant IL5.
Immunogen	Recombinant protein corresponding to human IL5.
Host	Rat
Reactivity	Human
Specificity	Human Interleukin-5.
Form	Liquid
Isotype	IgG2a
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In 100 mM BBS, pH 8.2
Storage Instruction	Store at 4°C.

Applications

- Sandwich ELISA

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 [OTTHUMP00000065830]T-cell replacing factor[eosinophil differentiation factor]interleukin 5[interleukin-5]

Publication Reference

- [Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples.](#)

Abrams JS, Roncarolo MG, Yssel H, Andersson U, Gleich GJ, Silver JE.

Immunological Reviews 2006 Jun; 127:5.

Application: Blocking, ELISA, Human, Supernatants from cells cultured and stimulated ex vivo with different agents and biological fluids like sera/plasma, bronchoalveolar lavage, ascites, urines, cerebrospinal fluids, saliva, and sputa.

- [Elevated serum levels of interleukin-5 in patients with the syndrome of episodic angioedema and eosinophilia.](#)

Butterfield JH, Leiferman KM, Abrams J, Silver JE, Bower J, Gonchoroff N, Gleich GJ.

Blood 1992 Feb; 79(3):688.

Application: ELISA, Human, Human serum

- [Interleukin-5 and the posttreatment eosinophilia in patients with onchocerciasis.](#)

Limaye AP, Abrams JS, Silver JE, Awadzi K, Francis HF, Ottesen EA, Nutman TB.

The Journal of Clinical Investigation 1991 Oct; 88(4):1418.

Application: Immunoassays, Human, Serum

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](#)