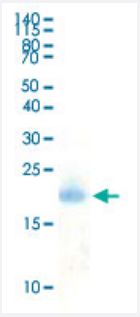
Bioactive | Full-Length | Sm Size

IL2 (Human) Recombinant Protein

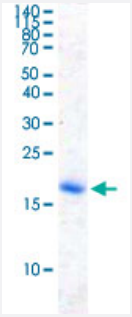
Catalog # P5822 Size 100 ug, 50 ug, 10 ug

Applications



Western Blot (Recombinant protein)

Western blot analysis of IL2 (Human) Recombinant Protein (Cat # P5822) using protein specific antibody.



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human IL2 (133 a.a.) full-length recombinant protein with His tag expressed in Barley grain (*Hordeum vulgare*).

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Host	Plants
Theoretical MW (kDa)	22
Form	Lyophilized
Preparation Method	Barley grain (*Hordeum vulgare*) expression system
Purification	Chromatography
Concentration	100 ug/mL
Purity	> 98% by SDS-PAGE
Endotoxin Level	Endotoxin level is less than 0.005ng per ug protein (0.05EU/ug) as measured by turbidimetric kinetic assay
Activity	The bioactivity of recombinant human IL2 is determined by measuring the dose dependent effect on t he proliferation of CTLL-2 cells. The ED_{50} for this effect is typically < 0.25 ng/mL, which corresponds to a specific activity > 4 $x10^6$ U/mg.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue
Storage Buffer	Lyophilized from PBS, pH 7.2
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with sterile water to a concentration of no less than 100 ug/mL, store at -20°C. Fo r long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- Western Blot (Recombinant protein)

  Western blot analysis of IL2 (Human) Recombinant Protein (Cat # P5822) using protein specific antibody.
- SDS-PAGE

Gene Info — IL2

Entrez GeneID	3558

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Protein Accession#	A14844
Gene Name	IL2
Gene Alias	IL-2, TCGF, lymphokine
Gene Description	interleukin 2
Omim ID	147680
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a secreted cytokine that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine is a heterotrimeric protein complex whose gam ma chain is also shared by interleukin 4 (IL4) and interleukin 7 (IL7). The expression of this gene i n mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling th e precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which suggests an essential role of this gene in the immune respon se to antigenic stimuli. [provided by RefSeq
Other Designations	T cell growth factor|aldesleukin|interleukin-2|involved in regulation of T-cell clonal expansion

Publication Reference

- Coupling programmed cell death 1-positive tumor-infiltrating T cells with anti-programmed cell death 1 antibody improves the efficacy of adoptive T-cell therapy.

  Jiacheng Chu, Chenya Wang, Qingle Ma, Huaxing Dai, Jialu Xu, Edikan A Ogunnaike, Fei Peng, Xiaolin Shi, Chao Wang.

  Cytotherapy 2022 Mar; 24(3):291.

  Application: Func, Mouse, Mouse dendritic cells, Mouse splenocytes, Mouse tumor-infiltrating lymphocytes

Pathway

- Allograft rejection
- Autoimmune thyroid disease
- Cytokine-cytokine receptor interaction
- Graft-versus-host disease
- Jak-STAT signaling pathway
- T cell receptor signaling pathway
- Type I diabetes mellitus

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Disease

- Abscess
- Acquired Immunodeficiency Syndrome
- Acute Disease
- Addison Disease
- Adenocarcinoma
- Aggressive Periodontitis
- Alopecia Areata
- Alveolar Bone Loss
- Alveolitis
- Alzheimer disease
- Arthralgia
- Arthritis
- Asthma
- Atherosclerosis
- Autoimmune Diseases
- Barrett Esophagus
- Berylliosis
- Breast Neoplasms
- Bronchiolitis
- Brucellosis
- Carcinoma
- Cardiomyopathy
- Cardiovascular Diseases
- Celiac Disease

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- Chagas Disease
- Chorioamnionitis
- Chronic Disease
- Chronic Periodontitis
- Colitis
- Common Cold
- Common Variable Immunodeficiency
- Connective Tissue Diseases
- Coronary Artery Disease
- Crohn Disease
- Cystic fibrosis
- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Duodenal Ulcer
- Edema
- Epstein-Barr Virus Infections
- Esophageal Neoplasms
- Esophagitis
- Fetal Diseases
- Fetal Membranes
- Gastritis
- Gastrointestinal Neoplasms
- Genetic Predisposition to Disease
- Gonorrhea

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- Graft vs Host Disease
- Graves Disease
- Hashimoto Disease
- Helicobacter Infections
- Hematologic Diseases
- Hepatitis B
- Hepatitis C
- Hernia
- HIV Infections
- Hodgkin Disease
- Hyperglycemia
- Hyperparathyroidism
- Hypersensitivity
- Hypertension
- Idiopathic Pulmonary Fibrosis
- Immune System Diseases
- Infant
- Infection
- Inflammation
- Intervertebral Disk Displacement
- Irritable Bowel Syndrome
- Kidney Diseases
- Kidney Failure
- Leiomyoma
- Leprosy
- Leptospirosis

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- Leukemia
- Lichen Planus
- Liver Cirrhosis
- Liver Neoplasms
- Lung Diseases
- Lung Neoplasms
- Lupus Erythematosus
- Lymphatic Metastasis
- Lymphoma
- Lymphoproliferative Disorders
- Malignant melanoma
- Melanoma
- Mental Disorders
- Metabolic Syndrome X
- Multiple Myeloma
- Multiple Sclerosis
- Musculoskeletal Diseases
- Nasopharyngeal Neoplasms
- Neoplasm Invasiveness
- Neoplasms
- Neuroendocrine Tumors
- Neuropsychological Tests
- Obstetric Labor
- Occupational Diseases
- Osteolysis
- Osteoporosis

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- Pain
- Pancreatic Neoplasms
- Parasitic Diseases
- Parkinson disease
- Pemphigus
- Peptic Ulcer
- Periodontal Attachment Loss
- Periodontal Pocket
- Periodontitis
- Postoperative Complications
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prostate cancer
- Prostatic Neoplasms
- Prosthesis Failure
- Psoriasis
- Psychiatric Status Rating Scales
- Pulmonary Disease
- Pulmonary Fibrosis
- Purpura
- Radiation Injuries
- Radiation Pneumonitis
- Renal Artery Obstruction
- Respiratory Hypersensitivity
- Respiratory Syncytial Virus Infections

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- Respiratory Tract Infections
- Rhinitis
- Sarcoidosis
- Schizophrenia
- Sciatica
- Scleroderma
- Sepsis
- Skin Diseases
- Skin Neoplasms
- Skin Ulcer
- Stomach Neoplasms
- Stomach Ulcer
- Subacute Sclerosing Panencephalitis
- Thoracic Neoplasms
- Tuberculosis
- Urinary Bladder Neoplasms
- Uterine Cervical Neoplasms
- Uterine Neoplasms
- Vaginosis
- Vascular Diseases
- Vulvar Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome

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