IL12RB1 (Human) Recombinant Protein

Catalog # P8334 Size 2 x 10 ug

Specification

Product Description	Human IL12RB1 (P42701, 1 a.a. - 545 a.a.) partial recombinant protein with His tag at N-terminus expressed in *Escherichia coli*.
Sequence	MGSSHHHHHHSSGLVPRGSHMGSMEPLVTWVVPLLFLFLLSRQGAACRTSECCFQDPPYPDA DSGSASGPRDLRCYRISSDRYECSWQYEGPTAGVSHFLRCCLSSGRCCYFAAGSATRLQFSDQ AGVSVLYTVTLWVESWARNQTEKSPEVTLQLYNSVKYEPPLGDIKVSKLAGQLRMEWETPDNQV GAEVQFRHRTPSSPWKLGDCGPQDDDTESCLCPLEMNVAQEFQLRRRQLGSQGSSWSKWSS PVCVPPENPPQPQVRFSVEQLGQDGRRRLTLKEQPTQLELPEGCQGLAPGTEVTYRLQLHMLS CPCKAKATRTLHLGKMPYLSGAAYNVAVISSNQFGPGLNQTWHIPADTHTEPVALNISVGTNGTTM YWPARAQSMTYCIEWQPVGQDGGLATCSLTAPQDPDPAGMATYSWSRESGAMGQEKCYYITIFA SAHPEKLTLWSTVLSTYHFGGNASAAGTPHHVSVKNHSLDSVSVDWAPSLLSTCPGVLKEYVVR CRDEDSKQVSEHPVQPTETQVTLSGLRAGVAYTVQVRADTAWLRGVWSQPQRFSIEVQVSD
Host	Escherichia coli
Theoretical MW (kDa)	62.6
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Purity	> 90% by SDS-PAGE
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In 20mM Tris-HCl buffer pH 8.0 (10% glycerol)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- SDS-PAGE

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Gene Info — IL12RB1

Entrez GeneID	3594
Protein Accession#	P42701
Gene Name	IL12RB1
Gene Alias	CD212, IL-12R-BETA1, IL12RB, MGC34454
Gene Description	interleukin 12 receptor, beta 1
Omim ID	209950 601604
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a type I transmembrane protein that belongs to the hemopoietin receptor superfamily. This protein binds to interleukine 12 (IL12) with a low affinity, and is thought to be a part of IL12 receptor complex. This protein forms a disulfide-linked oligomer, which is required for its IL12 binding activity. The coexpression of this and IL12RB2 proteins was shown to lead to the formation of high-affinity IL12 binding sites and reconstitution of IL12 dependent signaling. The lack of expression of this gene was found to result in the immunodeficiency of patients with severe mycobacterial and Salmonella infections. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq
Other Designations	IL-12 receptor beta component|interleukin-12 receptor beta-1 chain

Pathway

- Cytokine-cytokine receptor interaction
- Jak-STAT signaling pathway

Disease

- Adenocarcinoma
- Anemia
- Arthritis
- Asthma
- Bronchial Hyperreactivity
- Bronchiolitis

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- Carcinoma
- Cardiovascular Diseases
- Celiac Disease
- Chorioamnionitis
- Crohn Disease
- Dermatitis
- Diabetes Mellitus
- Disease Progression
- Edema
- Esophageal Neoplasms
- Esophagitis
- Fetal Membranes
- Genetic Predisposition to Disease
- Hematologic Diseases
- Hepatitis C
- Hodgkin Disease
- Hyperparathyroidism
- Hypersensitivity
- Infant
- Inflammation
- Leiomyoma
- Leprosy
- Liver Cirrhosis
- Liver Neoplasms
- Lung Diseases
- Lung Neoplasms

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- Lupus Erythematosus
- Lupus Nephritis
- Lymphadenitis
- Lymphoproliferative Disorders
- Malaria
- Multiple Myeloma
- Mycobacterium avium-intracellulare Infection
- Mycobacterium Infections
- Obstetric Labor
- Occupational Diseases
- Pain
- Periodontitis
- Pre-Eclampsia
- Premature Birth
- Psoriasis
- Radiation Injuries
- Radiation Pneumonitis
- Respiratory Syncytial Virus Infections
- Sarcoidosis
- Severe Acute Respiratory Syndrome
- Subacute Sclerosing Panencephalitis
- Tuberculosis
- Uterine Neoplasms
- Viremia
- Waldenstrom Macroglobulinemia
- Werner syndrome

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