

# EBI3/IL12A (Human) Recombinant Protein

Catalog # P6254      Size 100 ug

## Specification

<b>Product Description</b>	Human EBI3/IL12A (Q14213/P29459) recombinant protein expressed in HEK 293 cells.
<b>Sequence</b>	<p>EBI3: RKGPPAALTLPRVQCRASRYPIAVDCSWTLPPAPNSTSPVSFIATYRLGMAARGHSWPCL            QQTPTSTSTCTITDVQLFSMAPYVLNVTAVHPWGSSSSSFVPFITEHIKPDPEGVRLSPLAERQLQV            QWEPPGSWPFPEIFSLKYWIRYKRQGAARFHRVGPIEATSFILRAVRPRARYVQVAAQDLTDYGE            LSDWSPATATMSLGK</p> <p>p35: RNLPVATPDPMFPCLHHSQNLLRAVSNMLQKARQTLEFYPTSEEIDHEDITKDKTSTVEA            CLPLELTKNESCLNSRETSFITNGSCLASRKTSFMMALCLSSYEDLKMYQVEFKTMNAKLLMDPK            RQIFLDQNMLAVIDELMQALNFNSEVTPQKSSLEEDFYKTKIKLCILLHAFRIRAVTIDRVMSYLN            A</p>
<b>Host</b>	Human
<b>Theoretical MW (kDa)</b>	45.8/60-65 unreduced
<b>Form</b>	Lyophilized
<b>Purity</b>	>= 95%
<b>Endotoxin Level</b>	<= 5 EUs/ug (Kinetic LAL)
<b>Quality Control Testing</b>	Reducing and Non-Reducing SDS PAGE
<b>Conformation</b>	Single chain dimer
<b>Storage Buffer</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate , 30 mM sodium chloride, pH7.5.
<b>Storage Instruction</b>	<p>Stored at -20°C to -80°C for 12 month.</p> <p>After reconstitution with sterile water at 0.1 mg/mL, store at -20°C to -80°C for 3 months, store at 4°C for 1 month.</p> <p>Aliquot to avoid repeated freezing and thawing.</p>

## Applications

- Western Blot

## Gene Info — IL12A

<b>Entrez GeneID</b>	<a href="#">3592</a>
<b>Protein Accession#</b>	<a href="#">Q14213;P29459</a>
<b>Gene Name</b>	IL12A
<b>Gene Alias</b>	CLMF, IL-12A, NFSK, NKSF1, P35
<b>Gene Description</b>	interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35)
<b>Omim ID</b>	<a href="#">161560</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>
<b>Gene Summary</b>	<p>This gene encodes a subunit of a cytokine that acts on T and natural killer cells, and has a broad array of biological activities. The cytokine is a disulfide-linked heterodimer composed of the 35-kD subunit encoded by this gene, and a 40-kD subunit that is a member of the cytokine receptor family. This cytokine is required for the T-cell-independent induction of interferon (IFN)-gamma, and is important for the differentiation of both Th1 and Th2 cells. The responses of lymphocytes to this cytokine are mediated by the activator of transcription protein STAT4. Nitric oxide synthase 2A (NOS2A/NOS2) is found to be required for the signaling process of this cytokine in innate immunity. [provided by RefSeq]</p>
<b>Other Designations</b>	IL-12, subunit p35 NF cell stimulatory factor chain 1 cytotoxic lymphocyte maturation factor 1, p35 interleukin 12, p35 interleukin 12A interleukin-12 alpha chain natural killer cell stimulatory factor 1, 35 kD subunit

## Gene Info — EB13

<b>Entrez GeneID</b>	<a href="#">10148</a>
<b>Protein Accession#</b>	<a href="#">Q14213;P29459</a>
<b>Gene Name</b>	EB13
<b>Gene Alias</b>	IL27B
<b>Gene Description</b>	Epstein-Barr virus induced 3
<b>Omim ID</b>	<a href="#">605816</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>

**Gene Summary**

This gene was identified by its induced expression in B lymphocytes in response Epstein-Barr virus infection. It encodes a secreted glycoprotein belonging to the hematopoietin receptor family, and heterodimerizes with a 28 kDa protein to form interleukin 27 (IL-27). IL-27 regulates T cell and inflammatory responses, in part by activating the Jak/STAT pathway of CD4+ T cells. [provided by RefSeq]

**Other Designations**

Epstein-Barr virus induced gene 3|cytokine receptor|interleukin-27 subunit beta

## Pathway

- [Allograft rejection](#)
- [Cytokine-cytokine receptor interaction](#)
- [Jak-STAT signaling pathway](#)
- [Toll-like receptor signaling pathway](#)
- [Type I diabetes mellitus](#)

## Disease

- [Abortion](#)
- [Acquired Immunodeficiency Syndrome](#)
- [Adenocarcinoma](#)
- [Alveolitis](#)
- [Alzheimer Disease](#)
- [Anemia](#)
- [Arthritis](#)
- [Asthma](#)
- [Autoimmune Diseases](#)
- [Breast Neoplasms](#)
- [Bronchiolitis](#)
- [Bronchopulmonary Dysplasia](#)
- [Carcinoma](#)

- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Chorioamnionitis](#)
- [Colorectal Neoplasms](#)
- [Common Variable Immunodeficiency](#)
- [Coronary Artery Disease](#)
- [Dermatitis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Ductus Arteriosus](#)
- [Edema](#)
- [Enterocolitis](#)
- [Esophageal Neoplasms](#)
- [Fetal Membranes](#)
- [Gastritis](#)
- [Genetic Predisposition to Disease](#)
- [Gingival Hemorrhage](#)
- [Helicobacter Infections](#)
- [Hematologic Diseases](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [Herpesviridae Infections](#)
- [Hodgkin Disease](#)

- [Hypersensitivity](#)
- [Hypotension](#)
- [Idiopathic Pulmonary Fibrosis](#)
- [Infant](#)
- [Inflammation](#)
- [Kidney Failure](#)
- [Liver Cirrhosis](#)
- [Liver Neoplasms](#)
- [Lung Diseases](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Malaria](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Mental Disorders](#)
- [Multiple Myeloma](#)
- [Multiple Sclerosis](#)
- [Myasthenia Gravis](#)
- [Nasopharyngeal Neoplasms](#)
- [Neuropsychological Tests](#)
- [Obstetric Labor](#)
- [Occupational Diseases](#)
- [Osteoarthritis](#)
- [Papillomavirus Infections](#)

- [Pemphigus](#)
- [Periodontal Pocket](#)
- [Periodontitis](#)
- [Pneumonia](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)
- [Proteinuria](#)
- [Psoriasis](#)
- [Pulmonary Disease](#)
- [Pulmonary Fibrosis](#)
- [Recurrence](#)
- [Respiratory Distress Syndrome](#)
- [Respiratory Syncytial Virus Infections](#)
- [Sarcoidosis](#)
- [Sarcoma](#)
- [Schizophrenia](#)
- [Scleroderma](#)
- [Skin Neoplasms](#)
- [Skin Ulcer](#)
- [Stomach Neoplasms](#)
- [Stomatitis](#)
- [Tuberculosis](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)