

Datasheet for ABIN2181332
IL12B Protein (AA 23-328) (Fc Tag)[Go to Product page](#)

2 Images

Overview

Quantity:	50 µg
Target:	IL12B
Protein Characteristics:	AA 23-328
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL12B protein is labelled with Fc Tag.

Product Details

Sequence:	AA 23-328
Characteristics:	This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 61.3 kDa. The protein migrates as 70-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	IL12B
Alternative Name:	IL-12B (IL12B Products)

Target Details

Background: Interleukin-12 (IL12) is also known as natural killer cell stimulatory factor (NKSF), cytotoxic lymphocyte maturation factor (CLMF), is a heterodimeric cytokine encoded by two separate genes, IL-12A (p35) and IL-12B (p40). IL12 is naturally produced by dendritic cells, macrophages and human B-lymphoblastoid cells (NC-37) in response to antigenic stimulation. IL-12 is involved in the differentiation of naive T cells into Th0 cells and plays an important role in the activities of natural killer cells and T lymphocytes. IL-12 also has anti-angiogenic activity, which means it can block the formation of new blood vessels. Interleukin-12 subunit beta (IL12B) also known as NKSF2, CLMF2 and P40. Interleukin-12 subunit beta has been shown to interact with IL23. A large excess of monomeric IL12B is also secreted by the cells producing IL12, and exhibits no demonstrable biological activity. Overexpression of IL12B gene has been shown to be associated with the pathogenesis of multiple sclerosis. In addition, studies have revealed that the promoter polymorphism of this gene is implicated in the severity of atopic and non-atopic asthma in children.

Molecular Weight: 61.3 kDa

Pathways: [JAK-STAT Signaling](#), [Cellular Response to Molecule of Bacterial Origin](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Activated T Cell Proliferation](#)

Application Details

Restrictions: For Research Use only

Handling

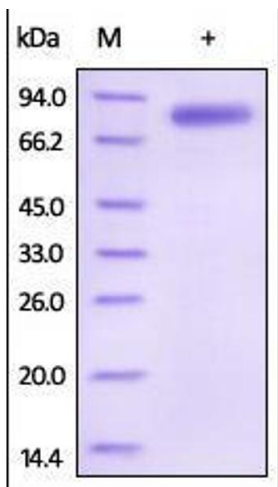
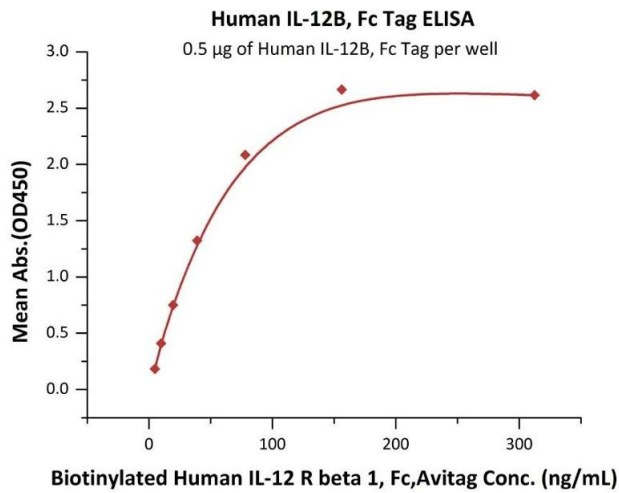
Format: Lyophilized

Buffer: Tris with Glycine, Arginine and NaCl, pH 7.5

Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C

Storage Comment: No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).



ELISA

Image 1. Immobilized Human IL-12B, Fc Tag (ABIN2181332,ABIN3071756,ABIN6810015) at 5 µg/mL (100 µL/well) can bind Biotinylated Human IL-12 R beta 1, Fc,Avitag (ABIN6731329,ABIN6809867) with a linear range of 5-40 ng/mL (QC tested).

SDS-PAGE

Image 2.