antibodies

# Datasheet for ABIN2181334 IL12B Protein (AA 23-328) (His tag)

2 Images



### Overview

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

## Product Details

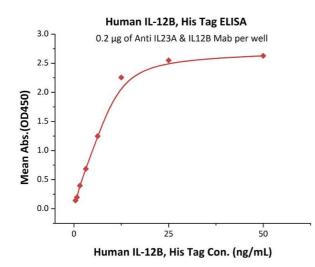
Sequence:	AA 23-328
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 36.6 kDa. The protein migrates as 45-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per $\mu g$ by the LAL method.
Target Details	
Target:	IL12B

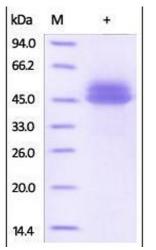
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Target Details	
Alternative Name:	IL-12B (IL12B Products)
Background:	Interleukin-12 (IL12) is also known as natural killer cell stimulatory factor (NKSF), cytotoxic lymphocyte maturation factor (CLMF), is a heterodimeric cytokine encoded by two separate 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:	36.6 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:	PBS, pH 7.4
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).

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#### Images





# ELISA

**Image 1.** Immobilized Anti IL23A & IL12B MAb at  $2 \mu g/mL$ (100  $\mu L/well$ ) can bind Human IL-12B, His Tag (ABIN2181334,ABIN3071755,ABIN6810016) with a linear range of 0.4-13 ng/mL (QC tested).

## SDS-PAGE

Image 2.

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