

Datasheet for ABIN7317506  
**IL12RB1 Protein (His tag)**



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## Overview

Quantity:	100 µg
Target:	IL12RB1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL12RB1 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human IL12RB1 Protein (His Tag)(Active)
Sequence:	Met 1-Glu 540
Characteristics:	A DNA sequence encoding the human IL12RB1 isoform 1 (NP_005526.1) extracellular domain (Met 1-Glu 540) was expressed, fused with a polyhistidine tag at the C-terminus.
Purity:	> 94 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized human IL12RB1 at 20 µg/ml (100 µl/well) can bind human IL12B with a linear ranger of 2.56-64 ng/ml.

## Target Details

Target:	IL12RB1
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## Target Details

Alternative Name: IL12RB1 ([IL12RB1 Products](#))

**Background:** Background: Interleukin 12 receptor, beta 1 is also known as IL-12 receptor beta component, IL-12R subunit beta-1, and CD212 antigen (CD212). IL12RB1(CD212) is a subunit of the interleukin 12 receptor. IL12RB1(CD212) 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. IL12RB1(CD212) forms a disulfide-linked oligomer, which is required for its IL12 binding activity. The coexpression of IL12RB1 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. IL12RB1(CD212) Functions as an interleukin receptor which binds interleukin-12 with low affinity and is involved in IL12 transduction. It associated with IL12RB2 it forms a functional, high affinity receptor for IL12. IL12RB1(CD212) associates also with IL23R to form the interleukin-23 receptor which functions in IL23 signal transduction probably through activation of the Jak-Stat signaling cascade.

Synonym: CD212,IL-12R-BETA1,IL12RB,IMD30, CD212 antigen, IL-12 receptor beta component, IL-12 receptor subunit beta-1, IL12R, IL-12R subunit beta-1, IL12RB, IL-12RB1, IL-12R-BETA1, IL-12R-beta-1, interleukin-12 receptor beta-1 chain, interleukin-12 receptor subunit beta-1

Molecular Weight: 58.5 kDa

NCBI Accession: [NP\\_005526](#)

Pathways: [JAK-STAT Signaling](#), [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

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.

Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.