

Datasheet for ABIN7455632

## IL12 Protein

### 1 Image



[Go to Product page](#)

### Overview

Quantity:	50 µg
Target:	IL12
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant

### Product Details

Purpose:	Recombinant Human Interleukin-12 is produced by our Mammalian expression system and the target gene encoding Arg23-Ser219 and Ile23-Ser328 is expressed.
Characteristics:	Extracellular Domain Protein
Purification:	Purified from cell culture supernatant by affinity chromatography
Purity:	Greater than 95 % as determined by reducing SDS-PAGE.

### Target Details

Target:	IL12
Alternative Name:	IL-12 ( <a href="#">IL12 Products</a> )

**Background:** IL-12 is a heterodimeric pleiotropic cytokine made up of a 40 kDa (p40) subunit and a 35 kDa (p35) subunit. Human and mouse IL-12 share 70 % and 60 % amino acid sequence identity in their p40 and p35 subunits, respectively. IL-12 is involved in the differentiation of naive T cells into Th1 cells. It is known as a T cell-stimulating factor, which can stimulate the growth and function of T cells. It stimulates the production of interferon-gamma (IFN-γ) and tumor necrosis

## Target Details

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factor-alpha (TNF- $\alpha$ ) from T cells and natural killer (NK) cells, and reduces IL-4 mediated suppression of IFN- $\gamma$ . T cells that produce IL-12 have a coreceptor, CD30, which is associated with IL-12 activity. IL-12 plays an important role in the activities of natural killer cells and T lymphocytes. IL-12 mediates enhancement of the cytotoxic activity of NK cells and CD8 cytotoxic T lymphocytes.

Molecular Weight: 22.5 and 34.7 kDa

UniProt: [P29459](#), [P29460](#)

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

## Application Details

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Restrictions: For Research Use only

## Handling

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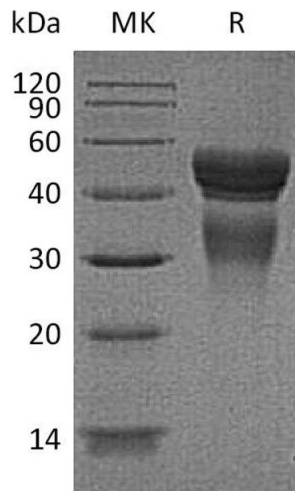
Format: Lyophilized

Buffer: Lyophilized from a 0.2  $\mu$ m filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Storage: -20 °C, -80 °C

Storage Comment: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).  
Lyophilized proteins are shipped at ambient temperature.

Expiry Date: 12 months



### SDS-PAGE

**Image 1.** Greater than 95 % as determined by reducing SDS-PAGE.