

Datasheet for ABIN7274899  
**IL12 Protein (AA 23-328) (His-Avi Tag,Biotin)**



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4 Images

Overview

Quantity:	100 µg
Target:	IL12
Protein Characteristics:	AA 23-328
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL12 protein is labelled with His-Avi Tag,Biotin.

Product Details

Purpose:	Biotinylated Human IL-12 Protein
Sequence:	Ile23-Ser328 (IL-12B) /Arg23-Ser219 (IL-12A)
Specificity:	Uni-Prot: P29460 (IL-12B), P29459 (IL-12A)
Characteristics:	Recombinant Biotinylated Human IL-12 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.It contains Ile23-Ser328(IL-12B)/Arg23-Ser219(IL-12A).
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Anti-IL-12 Antibody, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human IL-12, His Tag with the EC50 of 9.3ng/ml determined by ELISA. See testing image for detail.

## Target Details

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Target:	IL12
Alternative Name:	IL-12 ( <a href="#">IL12 Products</a> )
Background:	Interleukin 12 (IL-12) is a pleiotropic cytokine that plays an essential role in Th1-type immune response against cancer, a condition where cells in a particular part of the body grow and reproduce uncontrollably.
Molecular Weight:	34.7(IL-12B) kDa / 25.5 (IL-12A) kDa. Due to glycosylation, the protein migrates to 40-45 kDa based on Tris-Bis PAGE result.
UniProt:	<a href="#">P29460</a>
Pathways:	<a href="#">JAK-STAT Signaling</a> , <a href="#">TLR Signaling</a> , <a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">Activated T Cell Proliferation</a> , <a href="#">Cancer Immune Checkpoints</a> , <a href="#">Inflammasome</a>

## Application Details

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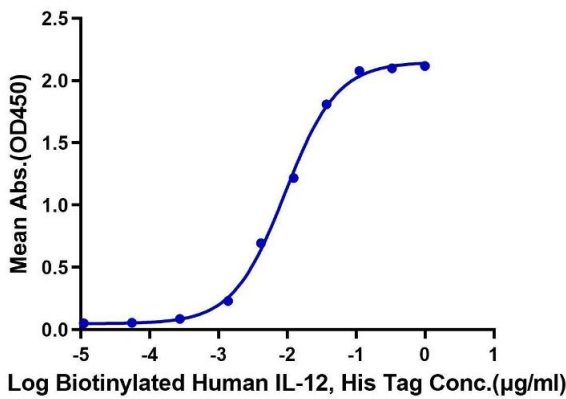
Restrictions:	For Research Use only
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## Handling

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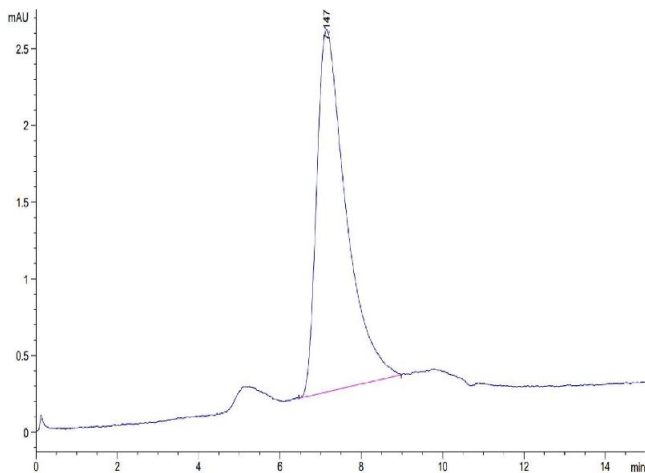
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS ( pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

**Biotinylated Human IL-12, His Tag ELISA**  
0.05µg Anti-IL-12 Antibody, hFc Tag Per Well



**ELISA**

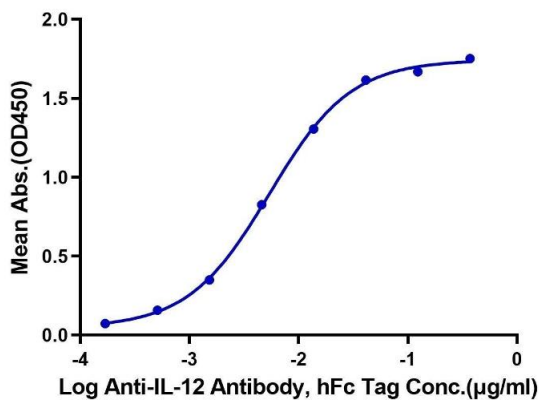
**Image 1.** Immobilized Anti-IL-12 Antibody, hFc Tag at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Human IL-12, His Tag with the EC50 of 9.3 ng/mL determined by ELISA.



**Size-exclusion chromatography-High Pressure Liquid Chromatography**

**Image 2.** The purity of Biotinylated Human IL-12 is greater than 95 % as determined by SEC-HPLC.

**Biotinylated Human IL-12, His Tag ELISA**  
0.02µg Biotinylated Human IL-12, His Tag Per Well



**ELISA**

**Image 3.** Immobilized Biotinylated Human IL12, His Tag at 0.2 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-IL12 Antibody, hFc Tag with the EC50 of 5.4 ng/mL determined by ELISA.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7274899.