

Datasheet for ABIN7275395
IL12B Protein (AA 23-328) (His tag)

3 Images

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Overview

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| Quantity: | 100 µg |
| Target: | IL12B |
| Protein Characteristics: | AA 23-328 |
| Origin: | Cynomolgus |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This IL12B protein is labelled with His tag. |

Product Details

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| Purpose: | Cynomolgus IL-12B/p40/NKSF2 Protein |
| Sequence: | Ile23-Ser328 |
| Characteristics: | Recombinant Cynomolgus IL-12B/p40/NKSF2 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ile23-Ser328. |
| 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 Cynomolgus IL-12B, His Tag at 0.2µg/ml (100µl/well) on the plate. Dose response curve for Anti-IL-12 Antibody, hFc Tag with the EC50 of 5.7ng/ml determined by ELISA. See testing image for detail. |

Target Details

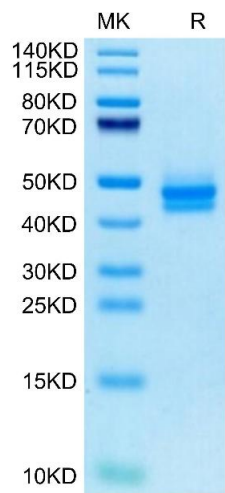
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|-------------------|--|
| Target: | IL12B |
| Alternative Name: | IL-12B (IL12B Products) |
| Background: | Interleukin (IL)-12B, which encodes the p40 subunit common to IL-12 and IL-23, as one of the genes for which expression in fibroblast-like synoviocytes from patients with rheumatoid arthritis (RA-FLS) is induced by DcR3. Decoy receptor 3 (DcR3) competitively binds to three ligands, Fas ligand, lymphotoxin-related inducible ligand that competes for glycoprotein D binding to herpesvirus entry mediator on T cells and tumor necrosis factor-like ligand 1A (TL1A), to prevent their effects. Recent studies have suggested that DcR3 directly affects cells as a ligand. |
| Molecular Weight: | 35.86 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis PAGE result. |
| UniProt: | A0A2K5TM36 |
| 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

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| Restrictions: | For Research Use only |
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Handling

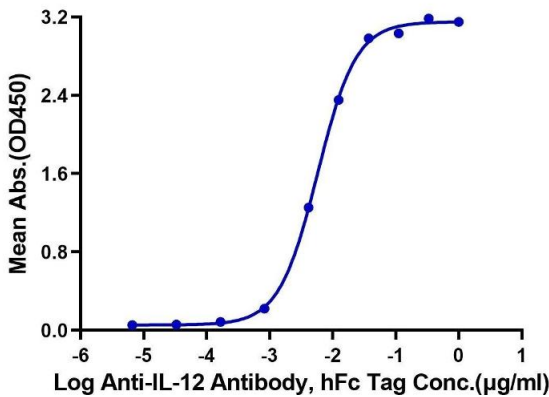
| | |
|------------------|--|
| Format: | Lyophilized |
| Reconstitution: | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water. |
| Buffer: | Lyophilized from 0.22µm filtered solution in PBS (pH 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 |



SDS-PAGE

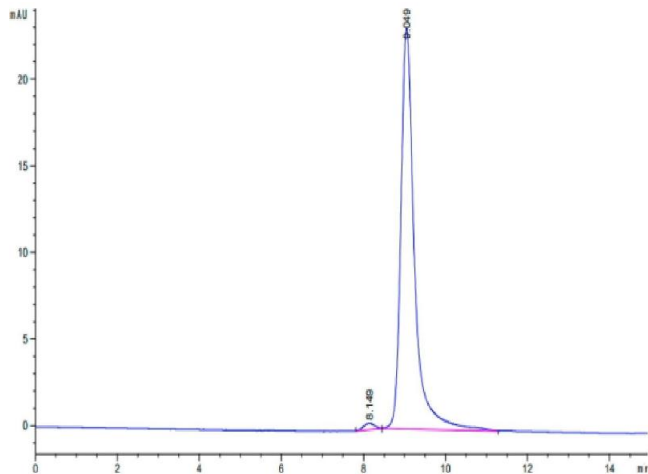
Image 1. Cynomolgus IL-12B on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Cynomolgus IL-12B, His Tag ELISA
0.02µg Cynomolgus IL-12B, His Tag Per Well



ELISA

Image 2. Immobilized Cynomolgus IL-12B, His Tag at 0.2 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-IL-12 Antibody, hFc Tag with the EC50 of 5.7 ng/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Cynomolgus IL-12B is greater than 95 % as determined by SEC-HPLC.