Datasheet for ABIN1684636

IL12 Protein (C-Term, Extracellular Domain)

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Overview

Quantity:	10 µg
Target:	IL12
Protein Characteristics:	C-Term, Extracellular Domain
Origin:	Human
Source:	HEK-293T Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Specificity:	DNA sequence encoding extracellular domain of Human IL-12B fused to a C-terminal polyHis tag was expressed in HEK cells.
Characteristics:	Recombinant Human Interleukin-12B p40 subunit is a monomer consisting of 306 amino acid residue and migrates as an approximately 46 kDa protein under reducing conditions in SDS-PAGE.
Purity:	> 95 %, as determined by SDS-PAGE
Sterility:	0.2 µm filtered
Endotoxin Level:	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/µg(1EU/µg).

Target Details

Target:	IL12

Target Details

Alternative Name:	IL-12 (IL12 Products)
Background:	IL-6 is produced by many different cell types. The main sources in vivo are stimulated monocytes, fibroblasts, and endothelial cells. Macrophages, T-cells and B-lymphocytes, granulocytes, smooth muscle cells, eosinophils, chondrocytes, osteoblasts, mast cells, glial cells, and keratinocytes also produce IL6 after stimulation. IL6 is a member of a family of cytokines, which also includes LIF, CNTF, Oncostatin M, IL11, and CT-1. All known members of the IL6 cytokine family induce hepatic expression of acute phase proteins. The IL6 receptor is expressed on T-cells, mitogen-activated B-cells, peripheral monocytes and some macrophage- and B-cell derived tumor cell types. It is not expressed in resting B-cells but in resting T-cells. The IL6 receptor is a strongly glycosylated protein of 80 kDa and a length of 449 amino acids. It has been designated CD126.
UniProt:	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

Comment:	The activity was determined by its ability to bind recombinant Human IL-12RB1 in functional ELISA. Protein Sequence 10 0 30 40 50 60 MCHQQLVISW FSLVFLASPL VAIWELKKDV YVVELDWYPD APGEMVVLTC DTPEEDGITW 70 80 90 100 110 120 TLDQSSEVLG SGKTLTIQVK EFGDAGQYTC HKGGEVLSHS LLLLHKKEDG IWSTDILKDQ 130 140 150 160 170 180 KEPKNKTFLR CEAKNYSGRF TCWWLTTIST DLTFSVKSSR GSSDPQGVTC GAATLSAERV 190 00 10 20 30 40 RGDNKEYEYS VECQEDSACP AAEESLPIEV MVDAVHKLKY ENYTSSFFIR DIIKPDPPKN 50 60 70 80 90 300 LQLKPLKNSR QVEVSWEYPD TWSTPHSYFS LTFCVQVQGK SKREKKDRVF TDKTSATVIC 310 320 330 RKNASISVRA QDRYYSSSWS EWASVPCS. Complete precursor sequence shown, expressed chain highlighted
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Buffer:	PBS solution pH 7.4.

Handling

Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	-20 °C
Storage Comment:	The lyophilized antibody is stable for at least 1 year from date of receipt at -20 °C. Upon reconstitution, this antibody can be stored in working aliquots at - 8 °C for one month, or at -20 °C for six months without detectable loss of activity.
Expiry Date:	12 months