Datasheet for ABIN7317708

CD130/gp130 Protein (His tag,Fc Tag)

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Overview

Quantity:	100 µg
Target:	CD130/gp130 (IL6ST)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD130/gp130 protein is labelled with His tag,Fc Tag.

Product Details

Purpose:	Recombinant Human IL6ST/CD130 Protein (His & Fc Tag)(Active)
Sequence:	Met 1-Ile 618
Characteristics:	A DNA sequence encoding the extracellular domain (Met 1-Ile 618) of human IL6ST (NP_002175.2) precursor was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	1. Measured by its ability to bind human IL11Ra in a functional ELISA.2. Measured by its ability to inhibit the IL6 Rα enhancement of IL6 activity on M1 mouse myeloid leukemia cells (Saito, T. et al. 1991, J. Immunol. 147:168.). The ED50 for this effect is typically 0.05-0.15 µg/ml in the presence of 50 ng/ml recombinant human IL6sR and 100 ng/ml recombinant human IL6.

Target Details

Target:	CD130/gp130 (IL6ST)
Alternative Name:	IL6ST/CD130 (IL6ST Products)
Background:	Background: Glycoprotein 130 (also known as gp130, IL6ST, IL6-beta or CD130) is a transmembrane protein which is the founding member of the class of all cytokine receptors. CD130/gp130 is a signal transducer shared by many cytokines, including interleukin 6 (IL6), ciliary neurotrophic factor (CNTF), leukemia inhibitory factor (LIF), and Oncostatin M (OSM). CD130/gp130 functions as a part of the cytokine receptor complex. The activation of this protein is dependent upon the binding of cytokines to their receptors. CD130/gp130 plays a critical role in regulating myocyte apoptosis. Alternatively spliced transcript variants encoding distinct isoforms have been described. A related pseudogene has been identified on chromosome 17. The receptor systems for IL6, LIF, OSM, CNTF, IL11, CTF1 and BSF3 can utilize gp130 for initiating signal transmission. CD130/gp130 binds to IL6/IL6R (alpha chain) complex, resulting in the formation of high-affinity IL6 binding sites, and transduces the signal. CD130/gp130 may have a role in embryonic development. The type I OSM receptor is capable of transducing OSM-specific signaling events. Synonym: CD130,CDW130,GP130,IL-6RB
Molecular Weight:	96 kDa
NCBI Accession:	NP_002175
Pathways:	JAK-STAT Signaling, Cellular Glucan Metabolic Process, Autophagy, Smooth Muscle Cell Migration, Cancer Immune Checkpoints

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.