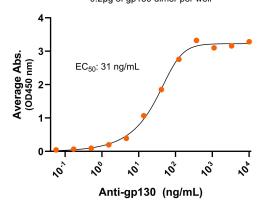
Human gp130 Dimer, His-Avi Tag Product Code: CSP-24081-03 For Research Use Only (RUO)

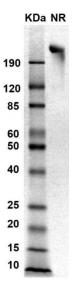
Bioactivity - Antibody Binding

Human gp130-His-Avi dimer, ELISA 0.2µg of gp130 dimer per well



Immobilized human gp130dimer protein, His-Avi Tag (Cat. No. CSP-24081-03) at 2 μ g/mL (100 μ L/well) can bind anti-human gp130 monoclonal antibody, with half maximal effective concentration (EC50) range of 15.6-62.4 ng/mL (QC tested).

SDS-PAGE



MW: Molecular Weight marker reduced condition NR: gp130 dimer under non-reducing condition

The migration range of the dimer protein with glycosylation under non-reducing conditions is >190 kDa on SDS PAGE.



Human gp130 Dimer, His-Avi Tag Product Code: CSP-24081-03 For Research Use Only (RUO)

Expression Host

HEK293T

Purity

Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition

Protein Construct

Gp130 dimer protein contains a gp130 extracellular domain (UniProt# P40189) fused with a proprietary dimer motif followed by a tandem His-Avi tag at the Cterminus. Expressed in HEK293T cell line.

SDS-Page Molecular Weight

156 kDa. The migration range of the dimer protein with glycosylation under non-reducing conditions is >190 kDa on SDS PAGE.

Shipping Conditions

Frozen Dry Ice

Protein Name

gp130

Alternate Name(s)

Interleukin 6 Cytokine Family Signal Transducer, IL6ST, Cluster of Differentiation 130, CD130, CDW130, GP130, Interleukin-6 receptor subunit beta, IL6Rb, IL-6RB, IL-6R beta, IL6β, interleukin 6 signal transducer

Amino Acid Range

E23-E619

Formulation

0.22µm filtered PBS, pH 7.4

Stability & Storage

-80°C

Background

Human glycoprotein 130 (gp130), is a transmembrane protein and a member of the class of tall cytokine receptors. Gp130 is also known as Interleukin 6 Cytokine Family Signal Transducer (IL6ST), Cluster of Differentiation 130 (CD130), CDW130, and Interleukin-6 Receptor Subunit Beta (IL6Rb). Gp130 serves as a shared signal transducing subunit of the receptor complexes for at least nine human cytokines including: interleukin-6 (IL-6), interleukin-11 (IL-11), interleukin-27 (IL-27), leukemia inhibitory factor (LIF), ciliary neurotrophic factor (CNTF), oncostatin M (OSM), cardiotrophin-1 (CT-1), cardiotrophin-like cytokine (CLC/CLCF-1), and neuropoietin (NP) that mediate highly diverse biological processes. Gp130 can form homodimers and heterodimers with other cytokine receptors (i.e., IL-6 receptor alpha (IL-6Ra)) in response to cytokine binding. The homodimerization or heterodimerization of gp130 is key to initiating intracellular signaling pathways, resulting in the activation of gp130-associated JAKs (JAK1, JAK2, and TYK2). The extracellular domain of gp130 includes an N-terminal immunoglobulin-like (Ig-like) domain (D1), a cytokinebinding homology region (CHR, D2D3), and three membrane-proximal fibronectin type III domains (FNIII, D4 to D6) followed by a transmembrane domain and cytoplasmic domain. It has been found that dysregulation of gp130 expression and signaling mediates progression for multiple types of cancer and autoimmune diseases. Inhibition of gp130 activity offers a potential and promising approach to cancer and autoimmune disease therapy.



Bioactive, human TIGIT dimer, Fc Tag Product Code: CSP-24028 For Research Use Only