

Active Recombinant Human IL6ST Protein, His&Avi tagged

Cat. No. IL6ST-69H Lot. No. (See product label)

SPECIFICATION

Product Overview	CD117 dimer protein contains a CD117 extracellular domain (UniProt# P10721) fused with a proprietary dimer motif followed by a tandem His-Avi tag at the C-terminus.
Species	Human
Source	HEK293T
ProteinLength	23-619 aa
Description	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

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	immunoglobulin-like (Ig-like) domain (D1), a cytokine-binding 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.
Molecular Mass	156 kDa
Homodimer/Heterodimer	Homodimer
Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA for gp130-specific antibody and interleukin-6 (IL-6) ligand protein binding assays. Suggested Applications: ELISA for gp130-specific antibody and interleukin-6 (IL-6) ligand protein binding assays. SPR & BLI for gp130-specific antibody and IL-6 protein binding assays. Animal immunization, RUO.
Storage	At -80 centigrade
Storage Buffer	0.22µm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice

GENE INFORMATION

Gene ID [3572](#)

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Gene Name	IL6ST interleukin 6 signal transducer (gp130, oncostatin M receptor) [Homo sapiens (human)]
Official Symbol	3572
Synonyms	IL6ST; interleukin 6 signal transducer (gp130, oncostatin M receptor); interleukin-6 receptor subunit beta; CD130; GP130; CD130 antigen; IL-6R subunit beta; membrane glycoprotein 130; IL-6 receptor subunit beta; membrane glycoprotein gp130; interleukin receptor beta chain; oncostatin-M receptor subunit alpha; gp130 of the rheumatoid arthritis antigenic peptide-bearing soluble form; CDW130; IL-6RB; DKFZp564F053;
mRNA Refseq	NM_001190981
Official Symbol 2	IL6ST
Gene ID 2	3572
Gene Name 2	IL6ST interleukin 6 signal transducer (gp130, oncostatin M receptor) [Homo sapiens (human)]
mRNA Refseq 2	NM_001190981
Protein Refseq 2	NP_001177910
MIM 2	600694
UniProt ID 2	P40189

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Bioactivity-Antibody Binding


Immobilized human gp130dimer protein, His-Avi Tag at 2 µg/mL (100 µL/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

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