Recombinant Mouse Il6st protein, His/S-tagged

Cat. No. Il6st-222M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il6st fused with His/S tag was expressed in E. coli.
Species	Mouse
Source	E.coli
Description	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.
Form	Lyophilized from sterile PBS, pH 7.4
Purity	> 95 % as determined by SDS-PAGE

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Storage	Store at -70 centigrade. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	Il6st interleukin 6 signal transducer [Mus musculus]
Official Symbol	Il6st
Synonyms	IL6ST; interleukin 6 signal transducer; interleukin-6 receptor subunit beta; IL-6RB; IL-6R-beta; IL-6R subunit beta; membrane glycoprotein 130; IL-6 receptor subunit beta; interleukin-6 signal transducer; oncostatin-M receptor subunit alpha; CD130; gp130; AA389424; BB405851; D13Ertd699e; 5133400A03Rik;
Gene ID	16195
mRNA Refseq	NM_010560
Protein Refseq	NP_034690
UniProt ID	Q00560
Chromosome Location	13 D2.2; 13 63.73 cM
Pathway	Adipogenesis, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; ESC Pluripotency Pathways, organism-specific biosystem; IL-6 signaling Pathway, organism-specific biosystem; Jak-STAT signaling pathway, organism-specific biosystem;

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Function	ciliary neurotrophic factor receptor activity; ciliary neurotrophic factor receptor binding; growth factor binding; contributes_to interleukin-11 binding; contributes_to interleukin-11 receptor activity; interleukin-6 receptor activity; protein binding; protein heterodimerization activity;

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