

**DESCRIPTION**

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse gp130 ELISAs. In sandwich immunoassays, no cross-reactivity or interference with recombinant human gp130, recombinant mouse (rm) rmlL-6, or rmlL-6R is observed.
<b>Source</b>	Monoclonal Rat IgG <sub>1</sub> Clone # 125605
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse gp130 Gln23-Glu617 Accession # Q00560
<b>Endotoxin Level</b>	<0.10 EU per 1 µg of the antibody by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

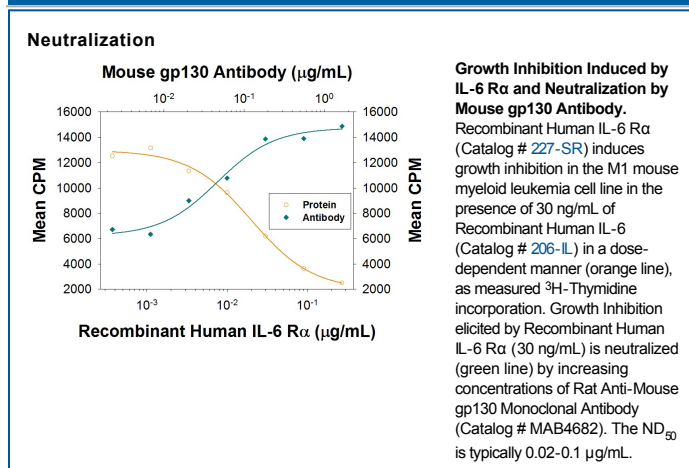
**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

**Mouse gp130 Sandwich Immunoassay**

<b>ELISA Capture</b>	2-8 µg/mL	<b>Reagent</b>	Mouse gp130 Antibody (Catalog # MAB4682)
<b>ELISA Detection Standard</b>	0.1-0.4 µg/mL		Mouse gp130 Biotinylated Antibody (Catalog # BAF468) Recombinant Mouse gp130 Fc Chimera (Catalog # 468-MG)
<b>Neutralization</b>	Measured by its ability to neutralize IL-6 R $\alpha$ -induced growth inhibition in the M1 mouse myeloid leukemia cell line. Saito, T. <i>et al.</i> (1991) <i>J. Immunol.</i> <b>147</b> :168. The Neutralization Dose (ND <sub>50</sub> ) is typically 0.02-0.1 µg/mL in the presence of 30 ng/mL Recombinant Human IL-6 R $\alpha$ and 30 ng/mL Recombinant Human IL-6.		

**DATA**



**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

gp130, the common signal transducing receptor component shared by the functional receptor complexes of the IL-6 family of cytokines, belongs to the class I cytokine receptor family. Binding of IL-6 (IL-11) to either the membrane-anchored or soluble IL-6 R (IL-11 R) initiates the association of IL-6 R (IL-11 R) with gp130 which then undergoes homo-dimerization and signal transduction. With other IL-6 family cytokines, such as LIF and OSM, signal transduction is triggered by the hetero-dimerization of gp130 and LIF R or OSM R. gp130 is expressed in all organs examined. Soluble gp130, which apparently arises either from proteolytic cleavage of the membrane-bound receptor or from alternative splicing, has been detected in human serum. *In vitro* experiments, natural or recombinant soluble gp130 has been shown to have inhibitory effects on OSM and CNTF activities.

**References:**

1. Narazaki, M. *et al.* (1993) *Blood* **82**:1120.
2. Taga, T. and T. Kishimoto (1997) *Annu. Rev. Immunol.* **15**:797.