# biotechne

## Human gp130 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF-228-NA

**R**Dsystems

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human gp130 in direct ELISAs and Western blots. In direct ELISAs, less than 2% cross-reactivity with recombinant rat gp130, recombinant mouse gp130, recombinant human (rh) IL-1 sRI, rhIL-1 sRI, rhIL-2 sRβ, rhIL-2 sRγ, rhIL-4 sR, and rhIL-6 sR is observed.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	<i>S. frugiperda</i> insect ovarian cell line <i>Sf</i> 21-derived recombinant human gp130 Leu24-Glu619 (Glu619Asp) Accession # P40189	
Endotoxin Level	<0.70 EU per 1 $\mu$ g of the antibody by the LAL method.	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or 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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	HeLa human cervical epithelial carcinoma cell line
Neutralization	line. Kitamura, T. <i>et al</i> . (1989) J. Cell	ncostatin M/OSM-induced proliferation in the TF-1 human erythroleukemic cell Physiol. <b>140</b> :323. The Neutralization Dose (ND <sub>50</sub> ) is typically 2-10 $\mu$ g/mL in the
	presence of 0.8 ng/mL Recombinant I	Human Oncostatin M/OSM.



PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.	
Shipping	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	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> </ul>	
	<ul> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> </ul>	

• 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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### 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. At the present time, the *in vivo* functions of soluble gp130 are not clearly understood. In *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.

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