

For Research Use Only

# gp130 Monoclonal antibody

Catalog Number: 67766-1-Ig **2 Publications**



## Basic Information

<b>Catalog Number:</b> 67766-1-Ig	<b>GenBank Accession Number:</b> NM_002184	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3572	<b>CloneNo.:</b> 1H7C5
<b>Source:</b> Mouse	<b>Full Name:</b> interleukin 6 signal transducer (gp130, oncostatin M receptor)	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:500-1:2000
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 104 kDa	
<b>Immunogen Catalog Number:</b> AG28808	<b>Observed MW:</b> 130-140 kDa	

## Applications

**Tested Applications:**  
IHC, WB, ELISA

**Cited Applications:**  
IF, IHC, IP, WB

**Species Specificity:**  
Human

**Cited Species:**  
human

**Positive Controls:**

**WB :** HepG2 cells, NCCIT cells, PC-3 cells, DU 145 cells

**IHC :** human placenta tissue, human colon cancer tissue, human liver cancer tissue, human lung cancer tissue, human tonsillitis tissue

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Glycoprotein 130 (gp130, also known as IL6ST, CD130 or IL6-beta) is a ubiquitously expressed, signal-transducing receptor that serves as the signal transduction unit for IL-6 family of cytokines, including IL-6, IL-11, IL-27, leukemia inhibitory factor (LIF), OSM, ciliary neurotrophic factor (CNTF), cardiotrophin 1 (CT-1), and cardiotrophin-like cytokine (CLC) (PMID: 9143707; 20610800). These cytokines signal through the gp130/Jak/STAT pathway (PMID: 9716487). Binding of IL-6 to IL-6R induces gp130 homodimerization and formation of a high-affinity receptor complex, which activates Jaks. That causes phosphorylation of gp130 tyrosine residues which in turn activates STAT3. gp130 is a type I transmembrane protein, and can also exist as a soluble form (sgp130). sgp130 binds to sIL-6R/IL-6 complexes and prevents their interactions with membrane-anchored gp130 on target cells (PMID: 9815830).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yanmiao Huo	35487760	Cell Prolif	WB,IF,IP
Yue Zhu	37306188	Cancer Med	IHC

## Storage

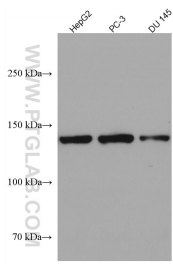
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

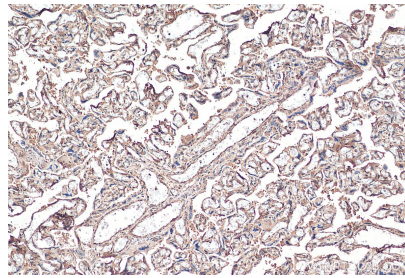
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

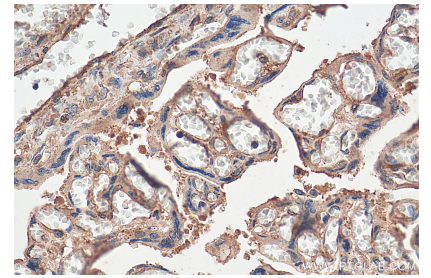
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67766-1-Ig (gp130 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 67766-1-Ig (gp130 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 67766-1-Ig (gp130 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).