

For Research Use Only

gp130/IL6ST Monoclonal antibody

Catalog Number: 67766-1-Ig **3 Publications**



Basic Information

Catalog Number: 67766-1-Ig	GenBank Accession Number: NM_002184	Purification Method: Protein G purification
Concentration: 1000 ug/ml	GeneID (NCBI): 3572	CloneNo.: 1H7C5
Source: Mouse	UNIPROT ID: P40189	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:500-1:2000
Isotype: IgG1	Full Name: interleukin 6 signal transducer (gp130, oncostatin M receptor)	
Immunogen Catalog Number: AG28808	Calculated MW: 104 kDa	
	Observed MW: 130-140 kDa	

Applications

Tested Applications: WB, IHC, ELISA	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
Cited Applications: WB, IHC, IF, IP	
Species Specificity: human	
Cited Species: human	
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,IP,IF
Yue Hu	39821173	PLoS One	WB
Yue Zhu	37306188	Cancer Med	IHC

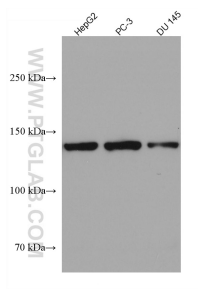
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

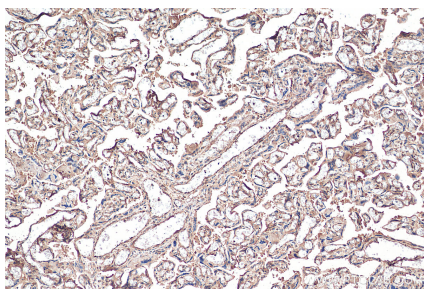
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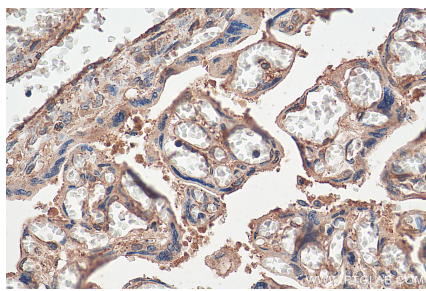
Selected Validation Data



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).