SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-phospho-CD130/gp130 (Ser782)antibody

Catalog Number: SL10122R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	phospho-CD130/gp130 (Ser782)
Immunogen:	KLH conjugated synthesised phosphopeptide derived from human gp130 around the phosphorylation site of Ser782: SE(p-S)TQ
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Rat,Rabbit(predicted:Mouse,Chicken,Dog,Pig,Cow,Horse)
Subcellular Location:	The cell membrane Secretory protein
Background:	CD130 is a signal transducer shared by many cytokines, including interleukin 6 (IL6), ciliary neurotrophic factor (CNTF), leukemia inhibitory factor (LIF), and oncostatin M (OSM). This protein functions as a part of the cytokine receptor complex. The activation of this protein is dependent upon the binding of cytokines to their receptors. vIL6, a protein related to IL6 and encoded by the Kaposi sarcoma-associated herpesvirus, can bypass the interleukin 6 receptor (IL6R) and directly activate this protein. Knockout studies in mice suggested a critical role of the gene encoding this protein in regulating myocyte apoptosis. Alternatively spliced transcript variants encoding distinct isoforms have been described. **Function:** Signal-transducing molecule. The receptor systems for IL6, LIF,

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	OSM, CNTF, IL11, CTF1 and BSF3 can utilize gp130 for initiating signal transmission. Binds to IL6/IL6R (alpha chain) complex, resulting in the formation of high-affinity IL6 binding sites, and transduces the signal. Does not bind IL6. May have a role in embryonic development. The type I OSM receptor is capable of transducing OSM-specific signaling events. **Subunit:** Interacts with INPP5D/SHIP1. Forms heterodimers composed of LIPR and IL6ST (type I OSM receptor). Also forms heterodimers composed of OSMR and IL6ST (type II OSM receptor). Homodimer. The homodimer binds two molecules of herpes virus IL6. Component of a hexamer of two molecules each of IL6, IL6R and IL6ST. Interacts with HCK. **Subcellular Location:** Isoform 1: Cell membrane; Single-pass type I membrane protein. Isoform 2: Secreted. **Tissue Specificity:** Found in all the tissues and cell lines examined. Expression not restricted to IL6 responsive cells. **Post-translational modifications:** Phosphorylation of Ser-782 down-regulates cell surface expression. Heavily N-glycosylated. **Similarity:** Belongs to the type I cytokine receptor family. Type 2 subfamily. Contains 5 fibronectin type-III domains. Contains 1 Ig-like C2-type (immunoglobulin-like) domain. **Database links:** **Entrez Gene:** 3572 Human **Entrez Gene:** 16195 Mouse **Entrez Gene:** 25205 Rat Omim: 600694 Human **SwissProt:** P40189 Human **SwissProt:** Q00560 Mouse **SwissProt:** P40190 Rat **Unigene:** 532082 Human **Unigene:** 706627 Human **Unigene:** 4364 Mouse **Unigene:** 12138 Rat

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[VALIDATION IMAGES]

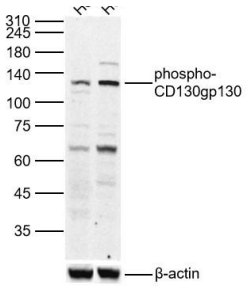


Figure 1. Sample: Lane 1: Human HepG2 cell Lysates Lane 2: Human HUVEC cell Lysates Primary: Anti-phospho-CD130gp130 (Ser782) (SL10122R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 130kDa Observed band size: 130kDa

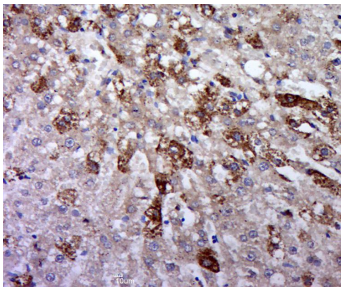


Figure 2. Paraformaldehyde-fixed, paraffin embedded (Rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-gp130 (Ser782)) Polyclonal Antibody, Unconjugated (SL10122R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining

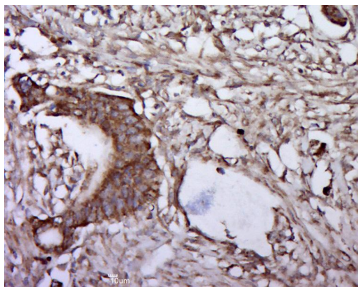


Figure 3. Paraformaldehyde-fixed, paraffin embedded (Human cervical cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-gp130 (Ser782)) Polyclonal Antibody, Unconjugated (SL10122R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining

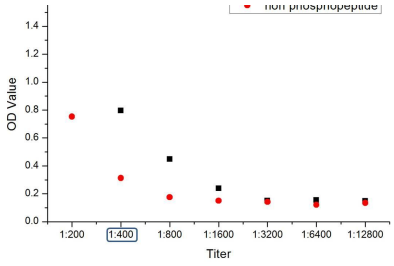


Figure 4. phosphopeptide non phosphopeptide

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