

p-gp130 (Ser 782)-R: sc-22346-R

BACKGROUND

IL-6 activates intracellular signaling by binding to IL-6R (the IL-6 receptor), which subsequently associates with a second protein, known as gp130. The active signaling complex consists of at minimum IL-6, IL-6R and a dimer of two gp130 proteins that are linked by a disulfide bond. The second subunit of the IL-6 complex, gp130, also functions as a component of several additional receptor complexes, including leukemia inhibitory factor (LIF), oncostatin M (OSM), ciliary neurotrophic factor (CNTF) and IL-11. The major phosphorylation site of human gp130 is located immediately N-terminal to the di-leucine motif of gp130, which regulates the internalization of the receptor. Phosphorylation of this site, Ser 782, regulates cell surface expression of the receptor polypeptide.

REFERENCES

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2. Taga, T., Hibi, M., Hirata, Y., Yamasaki, K., Matsuda, T., Hirano, T. and Kishimoto, T. 1989. Interleukin-6 triggers the association of its receptor with a possible signal transducer, gp130. *Cell* 58: 573-581.
3. Hibi, M., Murakami, M., Saito, M., Hirano, T., Taga, T. and Kishimoto, T. 1990. Molecular cloning and expression of an IL-6 signal transducer, gp130. *Cell* 63: 1149-1157.
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5. Murakami, M., Hibi, M., Nakagawa, N., Nakagawa, T., Yasukawa, Y., Yamanishi, K., Taga, T. and Kishimoto, T. 1993. Critical cytoplasmic region of the interleukin-6 signal transducer gp130 is conserved in the cytokine receptor family. *Science* 260: 1808-1810.
6. Gibson, R.M., Schiemann, W.P., Prichard, L.B., Reno, J.M., Ericsson, L.H. and Nathanson, N.M. 2000. Phosphorylation of human gp130 at Ser 782 adjacent to the di-leucine internalization motif. Effects on expression and signaling. *J. Biol. Chem.* 275: 22574-22582.

CHROMOSOMAL LOCATION

Genetic locus: IL6ST (human) mapping to 5q11; Il6st (mouse) mapping to 13 D2.2.

SOURCE

p-gp130 (Ser 782)-R is a rabbit polyclonal antibody raised against a short amino acid sequence containing Ser 782 phosphorylated gp130 of human origin.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-22346 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

p-gp130 (Ser 782)-R is recommended for detection of Ser 782 phosphorylated gp130 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

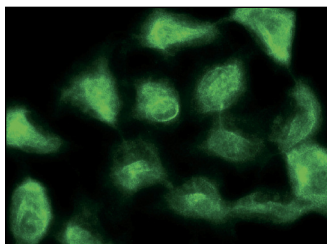
p-gp130 (Ser 782)-R is also recommended for detection of correspondingly phosphorylated gp130 in additional species, including avian.

Suitable for use as control antibody for gp130 siRNA (h): sc-29333, gp130 siRNA (m): sc-35502, gp130 shRNA Plasmid (h): sc-29333-SH, gp130 shRNA Plasmid (m): sc-35502-SH, gp130 shRNA (h) Lentiviral Particles: sc-29333-V and gp130 shRNA (m) Lentiviral Particles: sc-35502-V.

Molecular Weight of p-gp130: 130 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

DATA



p-gp130 (Ser 782)-R: sc-22346-R. Immunofluorescence staining of methanol-fixed HeLa cells showing membrane localization.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **p-gp130 (A-12): sc-377572** or **p-gp130 (D-3): sc-377570**, our highly recommended monoclonal alternatives to p-gp130 (Ser 782).