

# Anti-CD130 (pS782) Antibody

Rabbit polyclonal antibody to CD130 (pS782)

Catalog # AP61155

## Product Information

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Application	WB
Primary Accession	<a href="#">P40189</a>
Other Accession	<a href="#">Q00560</a>
Reactivity	Human, Mouse, Rat, Monkey, Pig, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	103537

## Additional Information

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Gene ID	3572
Other Names	Interleukin-6 receptor subunit beta; IL-6 receptor subunit beta; IL-6R subunit beta; IL-6R-beta; IL-6RB; CDw130; Interleukin-6 signal transducer; Membrane glycoprotein 130; gp130; Oncostatin-M receptor subunit alpha; CD130
Target/Specificity	Recognizes endogenous levels of CD130 (pS782) protein.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

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Name	IL6ST ( <a href="#">HGNC:6021</a> )
Function	Signal-transducing molecule (PubMed: <a href="#">2261637</a> ). The receptor systems for IL6, LIF, OSM, CNTF, IL11, CTF1 and BSF3 can utilize IL6ST for initiating signal transmission. Binding of IL6 to IL6R induces IL6ST homodimerization and formation of a high-affinity receptor complex, which activates the intracellular JAK-MAPK and JAK-STAT3 signaling pathways (PubMed: <a href="#">19915009</a> , PubMed: <a href="#">2261637</a> , PubMed: <a href="#">23294003</a> ). That causes phosphorylation of IL6ST tyrosine residues which in turn activates STAT3 (PubMed: <a href="#">19915009</a> , PubMed: <a href="#">23294003</a> , PubMed: <a href="#">25731159</a> ). In parallel, the IL6 signaling pathway induces the expression of two cytokine receptor signaling inhibitors, SOCS1 and SOCS3, which inhibit JAK and terminate the activity of the IL6 signaling pathway as a negative feedback loop (By similarity). Also activates the yes-associated protein 1 (YAP) and NOTCH pathways to control inflammation-induced epithelial regeneration, independently of STAT3 (By similarity). Acts

as a receptor for the neuroprotective peptide humanin as part of a complex with IL27RA/WSX1 and CNTFR (PubMed:[19386761](#)). Mediates signals which regulate immune response, hematopoiesis, pain control and bone metabolism (By similarity). Has a role in embryonic development (By similarity). Essential for survival of motor and sensory neurons and for differentiation of astrocytes (By similarity). Required for expression of TRPA1 in nociceptive neurons (By similarity). Required for the maintenance of PTH1R expression in the osteoblast lineage and for the stimulation of PTH-induced osteoblast differentiation (By similarity). Required for normal trabecular bone mass and cortical bone composition (By similarity).

#### Cellular Location

[Isoform 1]: Cell membrane; Single-pass type I membrane protein

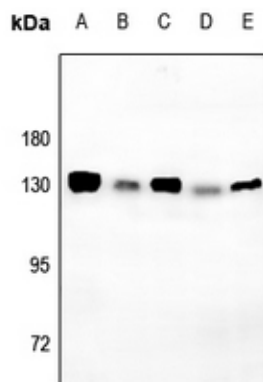
#### Tissue Location

Found in all the tissues and cell lines examined (PubMed:2261637). Expression not restricted to IL6 responsive cells (PubMed:2261637).

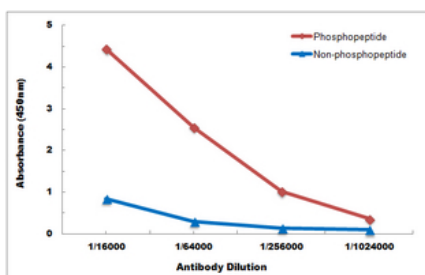
## Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human CD130 (pS782). The exact sequence is proprietary.

## Images



Western blot analysis of CD130 (pS782) expression in HEK293T (A), SGC7901 (B), LO2 (C), PC12 (D), AML12 (E) whole cell lysates.



Direct ELISA antibody dose-response curve using Anti-CD130 (pS782) Antibody. Antigen (phosphopeptide and non-phosphopeptide) concentration is 5 ug/ml. Goat Anti-Rabbit IgG (H&L) - HRP was used as the secondary antibody, and signal was developed by TMB substrate.

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