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Anti-CD130 (pS782) Antibody

Rabbit polyclonal antibody to CD130 (pS782)
Catalog # AP61155

Specification

Anti-CD130 (pS782) Antibody - Product Information

Application	**WB**
Primary Accession	P40189
Other Accession	Q00560
Reactivity	**Human, Mouse, Rat, Monkey, Pig, Chicken**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**103537**

Anti-CD130 (pS782) Antibody - Additional Information

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

Anti-CD130 (pS782) Antibody - Protein Information

Name IL6ST (HGNC:6021)

Function
Signal-transducing molecule (PubMed:2261637). 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:19915009, PubMed:2261637, PubMed:<a

href="http://www.uniprot.org/citations/23294003" target="_blank">23294003). That causes phosphorylation of IL6ST tyrosine residues which in turn activates STAT3 (PubMed:19915009, PubMed:23294003, PubMed:25731159). 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

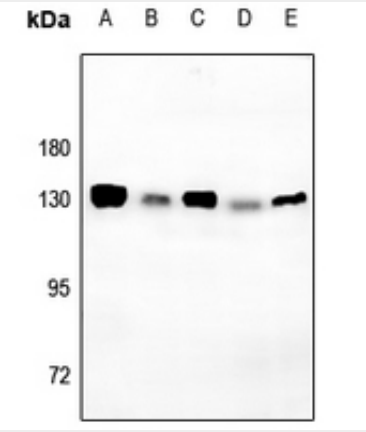
Tissue Location
Found in all the tissues and cell lines examined (PubMed:2261637). Expression not restricted to IL6 responsive cells (PubMed:2261637).

Anti-CD130 (pS782) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-CD130 (pS782) Antibody - Images



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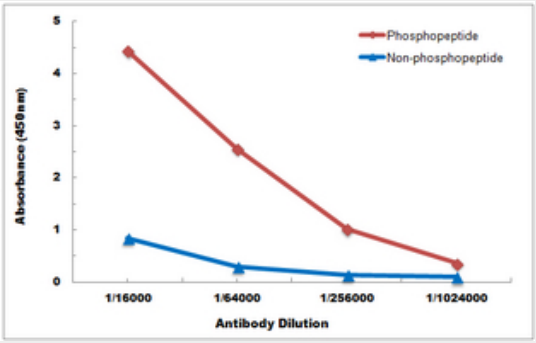
Western blot analysis of CD130 (pS782) expression in HEK293T (A), SGC7901 (B), LO2 (C), PC12 (D), AML12 (E) whole cell lysates.



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.

Anti-CD130 (pS782) Antibody - Background

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