

Rabbit CD130/gp130 Polyclonal Antibody | anti-CD130/gp130 antibody

CD130/gp130 Antibody

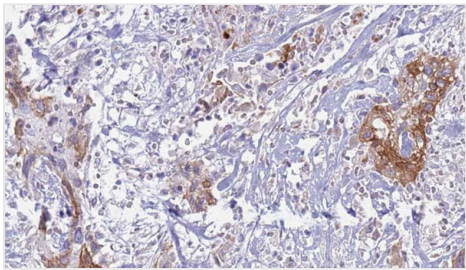
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322305	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

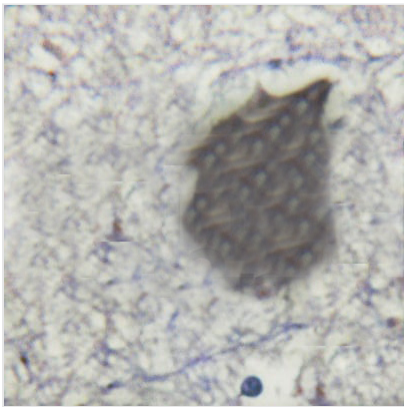
CD130/gp130; Polyclonal Antibody; CD130/gp130 Antibody; CD130; CD130 antigen; CDw130; gp130; GP130 RAPS; IL 6R beta; IL-6 receptor subunit beta; IL-6R subunit beta; IL-6R-beta; IL-6RB; IL6 ST; IL6RB_HUMAN; IL6ST; Interleukin 6 receptor subunit beta; Interleukin receptor beta chain; Interleukin-6 receptor subunit beta; Interleukin-6 signal transducer; Membrane glycoprotein 130; Membrane glycoprotein gp130; Oncostatin M receptor; Oncostatin M receptor alpha subunit; Oncostatin-M receptor subunit alpha; anti-CD130/gp130 antibody

PRODUCT SPECIFICATIONS

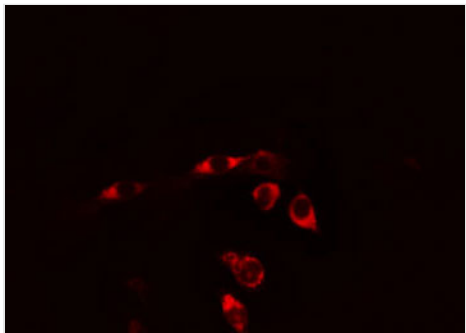
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CD130/gp130 antibody detects endogenous levels of total CD130/gp130
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	857
Applicable Applications for anti-CD130/gp130 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CD130/gp130
Subcellular Location	Secreted and Cell Membrane.
Tissue Specificity	Found in all the tissues and cell lines examined (PubMed:2261637). Expression not restricted to IL6 responsive cells (PubMed:2261637). Expressed in blood serum (at protein level) (PubMed:24629561).
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Zebrafish (86%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



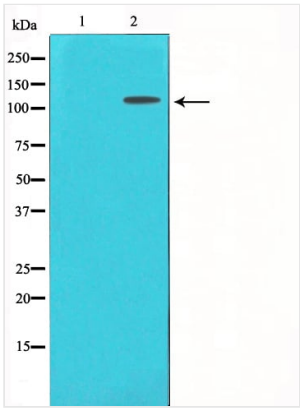
IHC (Immunohistochemistry)
AAA322305 at 1/100 staining Human urothelial cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IHC (Immunohistochemistry)
AAA322305 at 1/100 staining human brain tissues sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 59 degree C



IF (Immunofluorescence)
AAA322305 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis of CD130/gp130 expression in Jurkat whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CD130/gp130 antibody	Description: The protein encoded by this gene 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. Function: Signal-transducing molecule. 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 Janus kinases (PubMed:2261637). That causes phosphorylation of IL6ST tyrosine residues which in turn activates STAT3 (PubMed:19915009, PubMed:23294003). Mediates signals which regulate immune response, hematopoiesis, pain control and bone metabolism (By similarity). Has a role in embryonic development (By similarity). Does not bind IL6 (PubMed:2261637). 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). Subunit Structure: Component of a hexamer of two molecules each of IL6, IL6R and IL6ST (PubMed:12829785). Forms heterodimers composed of LIFR and IL6ST (type I OSM receptor) which are activated by LIF and OSM (PubMed:8999038). Also forms heterodimers composed of OSMR and IL6ST (type II receptor) which are activated by OSM but not by LIF (PubMed:8999038). Homodimer. The homodimer binds two molecules of herpes virus 8/HHV-8 protein vIL-6 (PubMed:11238858, PubMed:11251120). Interacts with HCK (PubMed:9406996). Interacts with INPP5D/SHIP1 (By similarity). Post-translational Modifications: Phosphorylation of Ser-782 down-regulates cell surface expression. Heavily N-glycosylated (PubMed:11098061, PubMed:16335952, PubMed:19159218, PubMed:19139490, PubMed:11251120). Glycosylation is required for protein stability and localization in plasma membrane but not for ligand binding (PubMed:19915009). Similarity: The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding. The box 1 motif is required for JAK interaction and/or activation. Belongs to the type I cytokine receptor family. Type 2 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	300244535
NCBI GeneID	3572
NCBI Accession #	NP_001177910.1
NCBI GenBank Nucleotide #	NM_001190981.1
UniProt Accession #	P40189; Q5FC04; Q9UQ41; A0N0L4
Molecular Weight	Observed: 160 kDa Predicted: 104 kDa
NCBI Official Full Name	interleukin-6 receptor subunit beta isoform 3
NCBI Official Synonym Full Names	interleukin 6 signal transducer
NCBI Official Symbol	IL6ST
NCBI Official Synonym Symbols	CD130; GP130; CDW130; IL-6RB
NCBI Protein Information	interleukin-6 receptor subunit beta
UniProt Protein Name	Interleukin-6 receptor subunit beta
UniProt Gene Name	IL6ST
UniProt Synonym Gene Names	IL-6 receptor subunit beta; IL-6R subunit beta; IL-6R-beta; IL-6RB; gp130

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.