

ARG82111 Rat CD130 / gp130 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82111-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82111-002	Standard	2 X 50 ng/vial	4°C
ARG82111-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82111-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82111-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82111-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82111-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82111-008	25X Wash buffer	20 ml	4°C
ARG82111-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82111-010	STOP solution	10 ml (Ready to use)	4°C
ARG82111-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82111 Rat CD130 / gp130 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat CD130 / gp130 in serum, plasma (heparin, EDTA, citrate) and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	CD130 / gp130
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	0.39 ng/ml
Sample Type	Serum, plasma (heparin, EDTA, citrate) and cell culture supernatants.
Standard Range	0.78 - 50 ng/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.2%; Inter-Assay CV: 7.0%
Alternate Names	CDw130; CD130; CDW130; Interleukin-6 signal transducer; CD antigen CD130; IL-6RB; Membrane glycoprotein 130; GP130; Oncostatin-M receptor subunit alpha; IL-6R subunit beta; Interleukin-6 receptor subunit beta; gp130; IL-6 receptor subunit beta; IL-6R-beta

Application Instructions

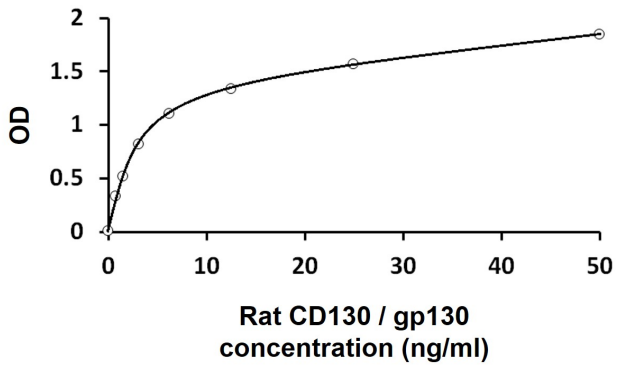
Assay Time	~ 5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	IL6ST
Gene Full Name	interleukin 6 signal transducer
Background	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. 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 suggest that this gene plays a critical role in regulating myocyte apoptosis. Alternatively spliced transcript variants have been described. A related pseudogene has been identified on chromosome 17. [provided by RefSeq, May 2014]
Function	Signal-transducing molecule. The receptor systems for IL6, LIF, 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 (By similarity). The type I OSM receptor is capable of transducing OSM-specific signaling events. [UniProt]
Highlight	Related products: CD130 antibodies ; CD130 ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	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). [UniProt]
Cellular Localization	Isoform 1: Cell membrane; Single-pass type I membrane protein. Isoform 2: Secreted. [UniProt]



ARG82111 Rat CD130 / gp130 ELISA Kit standard curve image

ARG82111 Rat CD130 / gp130 ELISA Kit results of a typical standard run with optical density reading at 450 nm.