# 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

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| 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 |

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| 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

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| Assay Time | ~ 5 hours |

## Properties

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| 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

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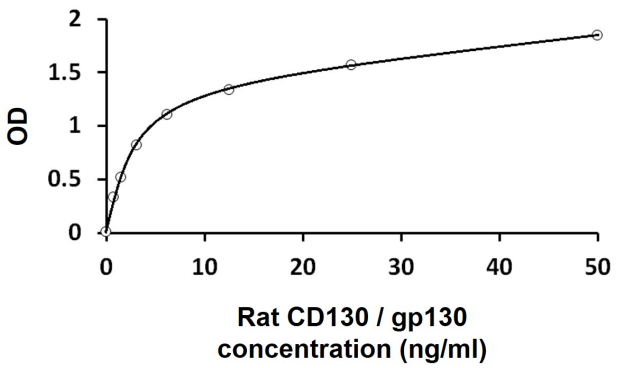
| Gene Symbol | IL6ST |
| Gene Full Name | interleukin 6 signal transducer |
| Background | The protein encoded by this gene is a signal transducer shared by many cytokines, including interleukin 6 (IL6), ciliary neurotrophic factor (CNTF), leukemia inhibitory factor (LIF), and oncostatin M (OSM). This 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:<br>CD130 antibodies; CD130 ELISA Kits;<br>New ELISA data calculation tool:<br>Simplify the ELISA analysis by GainData |
| PTM | Phosphorylation of Ser-782 down-regulates cell surface expression.<br><br>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] |

## Images




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.