

ARG81907 Rat Hemojuvelin ELISA Kit

Package: 96 wells
Store at: 4°C

Component

| Cat. No. | Component Name | Package | Temp |
|--------------|---------------------------------------|----------------------|---|
| ARG81907-001 | Antibody-coated microplate | 8 X 12 strips | 4°C. Unused strips should be sealed tightly in the air-tight pouch. |
| ARG81907-002 | Standard | 2 X 10 ng/vial | 4°C |
| ARG81907-003 | Standard/Sample diluent | 30 ml (Ready to use) | 4°C |
| ARG81907-004 | Antibody conjugate concentrate (100X) | 1 vial (100 µl) | 4°C |
| ARG81907-005 | Antibody diluent buffer | 12 ml (Ready to use) | 4°C |
| ARG81907-006 | HRP-Streptavidin concentrate (100X) | 1 vial (100 µl) | 4°C |
| ARG81907-007 | HRP-Streptavidin diluent buffer | 12 ml (Ready to use) | 4°C |
| ARG81907-008 | 25X Wash buffer | 20 ml | 4°C |
| ARG81907-009 | TMB substrate | 10 ml (Ready to use) | 4°C (Protect from light) |
| ARG81907-010 | STOP solution | 10 ml (Ready to use) | 4°C |
| ARG81907-011 | Plate sealer | 4 strips | Room temperature |

Summary

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| Product Description | ARG81907 Rat Hemojuvelin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat Hemojuvelin in serum, plasma (heparin, EDTA) and cell culture supernatants. |
| Tested Reactivity | Rat |
| Tested Application | ELISA |
| Specificity | There is no detectable cross-reactivity with other relevant proteins. |
| Target Name | Hemojuvelin |
| Conjugation | HRP |
| Conjugation Note | Substrate: TMB and read at 450 nm. |
| Sensitivity | 31.25 pg/ml |
| Sample Type | Serum, plasma (heparin, EDTA) and cell culture supernatants. |
| Standard Range | 62.5 - 4000 pg/ml |
| Sample Volume | 100 µl |

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| Precision | Intra-Assay CV: 5.5%; Inter-Assay CV: 6.5% |
| Alternate Names | HJV; HFE2A; JH; RGM domain family member C; Hemojuvelin; Hemochromatosis type 2 protein; RGMC |

Application Instructions

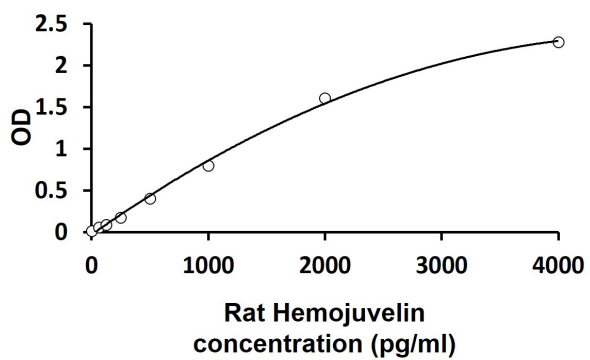
| | |
|------------|-----------|
| Assay Time | ~ 5 hours |
|------------|-----------|

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 | HFE2 |
| Gene Full Name | hemochromatosis type 2 (juvenile) |
| Background | The product of this gene is involved in iron metabolism. It may be a component of the signaling pathway which activates hepcidin or it may act as a modulator of hepcidin expression. It could also represent the cellular receptor for hepcidin. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. Defects in this gene are the cause of hemochromatosis type 2A, also called juvenile hemochromatosis (JH). JH is an early-onset autosomal recessive disorder due to severe iron overload resulting in hypogonadotrophic hypogonadism, hepatic fibrosis or cirrhosis and cardiomyopathy, occurring typically before age of 30. [provided by RefSeq, Jul 2008] |
| Function | Acts as a bone morphogenetic protein (BMP) coreceptor. Through enhancement of BMP signaling regulates hepcidin (HAMP) expression and regulates iron homeostasis. [UniProt] |
| Highlight | Related products: Hemojuvelin ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData |
| PTM | Autocatalytically cleaved at low pH; the two chains remain linked via two disulfide bonds. Also proteolytically processed by TMPRSS6, several fragments being released in the extracellular space; regulates HFE2 activity in BMP signaling and therefore iron homeostasis. [UniProt] |



ARG81907 Rat Hemojuvelin ELISA Kit standard curve image

ARG81907 Rat Hemojuvelin ELISA Kit results of a typical standard run with optical density reading at 450 nm.