

## Rat Hemojuvelin ELISA Kit | HFE2 elisa kit

Rat Hemojuvelin ELISA Kit

CATALOG #  
**AAA263164**

REACTIVITY  
**Rat**

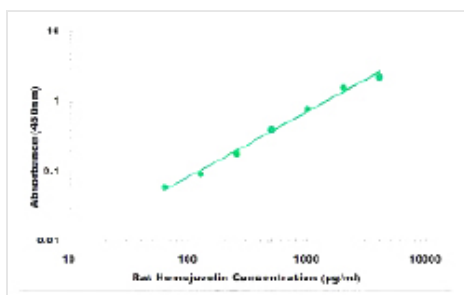
### PRODUCT SYNONYMS

Hemojuvelin; Rat Hemojuvelin ELISA Kit; HJV; RGM; Hemochromatosis type 2 protein; RGM domain family member C; HFE2 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                                                                |
| Specificity             | The Rat Hemojuvelin ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Rat Hemojuvelin proteins within the range of 62.5 pg/ml - 4000 pg/ml. |
| Sequence Length         | 422                                                                                                                                                                                                |
| Samples                 | Cell Culture Supernates, Serum, Plasma                                                                                                                                                             |
| Sensitivity             | <12 pg/ml                                                                                                                                                                                          |
| Preparation and Storage | Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.                                                                                        |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Related Product Information for HFE2 elisa kit | <p>Principle of the Assay: The Rat Hemojuvelin ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Rat Hemojuvelin in Cell Culture Supernates, Serum, Plasma. This assay employs an antibody specific for Rat Hemojuvelin coated on a 96-well plate. Standards and samples are pipetted into the wells and Hemojuvelin present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Rat Hemojuvelin antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of Hemojuvelin bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.</p> <p>Background: Hemojuvelin (HJV/RGMC/HFE2) is a membrane-bound and soluble protein in mammals. It is a member of the repulsive guidance molecule family of proteins. 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. Two uORFs in the 5' UTR negatively regulate the expression and activity of the encoded protein. 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.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                   |
|----------------------------------|-----------------------------------|
| NCBI GI #                        | 51316136                          |
| NCBI GeneID                      | 310681                            |
| UniProt Accession #              | Q8N7M5                            |
| Molecular Weight                 | 45,221 Da                         |
| NCBI Official Full Name          | Hemojuvelin                       |
| NCBI Official Synonym Full Names | hemochromatosis type 2 (juvenile) |
| NCBI Official Symbol             | Hfe2                              |
| NCBI Official Synonym Symbols    | Rgmc                              |
| NCBI Protein Information         | hemojuvelin                       |
| UniProt Protein Name             | Hemojuvelin                       |
| UniProt Gene Name                | Hfe2                              |
| UniProt Synonym Gene Names       | Rgmc                              |
| UniProt Entry Name               | RGMC_RAT                          |

**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.