

## Mouse Hemojuvelin ELISA Kit | HFE2 elisa kit

Mouse Hemojuvelin ELISA Kit

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| CATALOG #<br><b>AAA261737</b> | REACTIVITY<br><b>Mouse</b> | APPLICATIONS<br><b>ELISA</b> |
|-------------------------------|----------------------------|------------------------------|

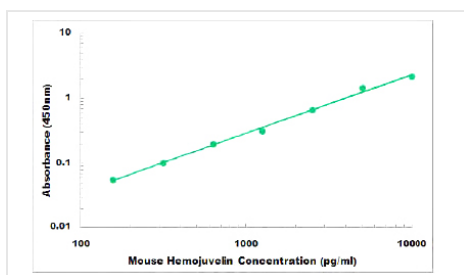
### PRODUCT SYNONYMS

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

### PRODUCT SPECIFICATIONS

|                                            |                                                                                                                                                                                                        |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                 | Mouse                                                                                                                                                                                                  |
| Specificity                                | The Mouse Hemojuvelin ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Mouse Hemojuvelin proteins within the range of 156 pg/ml - 10000 pg/ml. |
| Sequence Length                            | 420                                                                                                                                                                                                    |
| Samples                                    | Cell Culture Supernatants, Serum, Plasma.                                                                                                                                                              |
| Sensitivity                                | 10 pg/ml.                                                                                                                                                                                              |
| Applicable Applications for HFE2 elisa kit | ELISA (Sandwich ELISA)                                                                                                                                                                                 |
| 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 Mouse Hemojuvelin ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Mouse Hemojuvelin in Cell Culture Supernatants, Serum, Plasma. This assay employs an antibody specific for Mouse 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-Mouse 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/Introduction: Hemojuvelin (HJV/RGMC/HFE2) is a membrane-bound and soluble protein in mammals. It is a member of a three gene family (in vertebrates) called the repulsive guidance molecules. In mouse, the Hemojuvelin protein is encoded by the HFE2 gene, and it is mapped to Chromosome 3. It was concluded that downregulation of hepatic Hemojuvelin during inflammation may induce a temporary elimination of iron sensing. Hemojuvelin is a coreceptor for bone morphogenetic proteins (BMPs), and inhibition of endogenous BMP signaling reduces hepcidin expression and increases serum iron in mice. Furthermore, Hemojuvelin may play inhibitory roles in prostate cancer by suppressing cell growth, adhesion, migration and invasion.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                |
|----------------------------------|--------------------------------------------------------------------------------|
| NCBI GI #                        | 51316334                                                                       |
| NCBI GeneID                      | 69585                                                                          |
| UniProt Accession #              | Q7TQ32; Q8CEU7; Q8K1D4; Q9D741                                                 |
| Molecular Weight                 | 21,648 Da                                                                      |
| NCBI Official Full Name          | Hemojuvelin                                                                    |
| NCBI Official Synonym Full Names | hemochromatosis type 2 (juvenile)                                              |
| NCBI Official Symbol             | Hfe2                                                                           |
| NCBI Official Synonym Symbols    | HJV; DL-M; Rgmc; AI414844; AI789733; hemojuvelin; 2310035L15Rik; 5230400G09Rik |
| NCBI Protein Information         | hemojuvelin                                                                    |
| UniProt Protein Name             | Hemojuvelin                                                                    |
| UniProt Gene Name                | Hfe2                                                                           |
| UniProt Synonym Gene Names       | Rgmc                                                                           |
| UniProt Entry Name               | RGMC_MOUSE                                                                     |

**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.