

Human Hemojuvelin/RGM-C ELISA Kit | HFE2 elisa kit

Human Hemojuvelin/RGM-C PicoKine ELISA Kit

CATALOG #
AAA46765

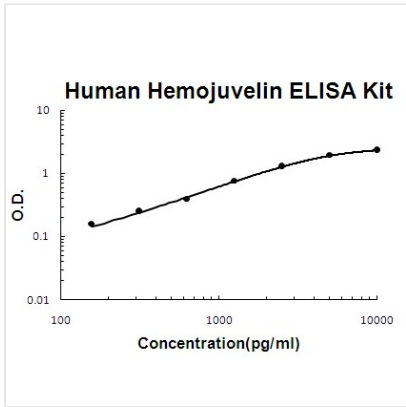
REACTIVITY
Human

PRODUCT SYNONYMS

Hemojuvelin/RGM-C; Human Hemojuvelin/RGM-C PicoKine ELISA Kit; Haemojuvelin; HEMOCHROMATOSIS; PEPTIDE; Hemojuvelin; HFE 2; HFE2; HFE2A; HJV; JH; Juvenile; RGM C; RGM C; Q6ZVN8; hemochromatosis type 2 (juvenile); HFE2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human Hemojuvelin
Sequence Length	200
Assay Range	156pg/ml-10000pg/ml
Sensitivity	<15pg/ml
Anticoagulant	heparin or EDTA
TMB incubation time	15-20
Immunogen	NSO, Q36-D400
Sample Data	Concentration(pg/ml): 0 156 312 625 1250 2500 5000 10000 O.D.: 0.059 0.156 0.251 0.387 0.755 1.286 1.910 2.347
Intra/Inter Assay Precision	Sample: 1 2 3 1 2 3 n: 16 16 16 24 24 24 Mean(pg/ml): 437 1427 5423 525 1612 6014 Standard Deviation: 20.10 82.77 352.50 36.23 124.12 511.19 CV(%): 4.6 5.8 6.5 6.9 7.7 8.5
Assay Procedure Step 1	Aliquot 0.1ml per well of the 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml human Hemojuvelin standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each human Hemojuvelin standard solution and each sample be measured in duplicate.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Human Hemojuvelin/RGM-C PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for HFE2 elisa kit	For quantitative detection of human Hemojuvelin in cell culture supernates, cell lysates, tissue homogenates, serum and plasma (heparin, EDTA). 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. In humans, the hemojuvelin protein is encoded by the HFE2 gene. 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. Principle: Human Hemojuvelin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from Mouse specific for Hemojuvelin has been precoated onto 96-well plates. Standards(Expression system for standard: NSO, Immunogen sequence: Q36-D400) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Hemojuvelin is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substRate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Human Hemojuvelin amount of sample captured in plate.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	942429604
NCBI GeneID	148738
NCBI Accession #	NP_001303696.1
NCBI GenBank Nucleotide #	NM_001316767.1
UniProt Accession #	Q6ZVN8; Q2PQ63; Q6IMF6; Q8NAH2; Q8WVJ5; B1ALI7
Molecular Weight	21,463 Da
NCBI Official Full Name	hemojuvelin isoform c
NCBI Official Synonym Full Names	hemochromatosis type 2 (juvenile)
NCBI Official Symbol	HFE2
NCBI Official Synonym Symbols	JH; HJV; RGMC; HFE2A
NCBI Protein Information	hemojuvelin

UniProt Protein Name	Hemojuvelin
UniProt Gene Name	HFE2
UniProt Synonym Gene Names	HJV; RGMC

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.

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Online datasheet: <https://stage.aaabiotech.com/hfe2-human-elisa-kits/hemojuvelin-rgm-c/46765>