

ARG81905 Human Hemojuvelin ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81905-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81905-002	Standard	2 X 10 ng/vial	4°C
ARG81905-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81905-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81905-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81905-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81905-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81905-008	25X Wash buffer	20 ml	4°C
ARG81905-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81905-010	STOP solution	10 ml (Ready to use)	4°C
ARG81905-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81905 Human Hemojuvelin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Hemojuvelin in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Hu
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	78 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.8%; Inter-Assay CV: 7.5%
Alternate Names	HJV; HFE2A; JH; RGM domain family member C; Hemojuvelin; Hemochromatosis type 2 protein; RGM C

Application Instructions

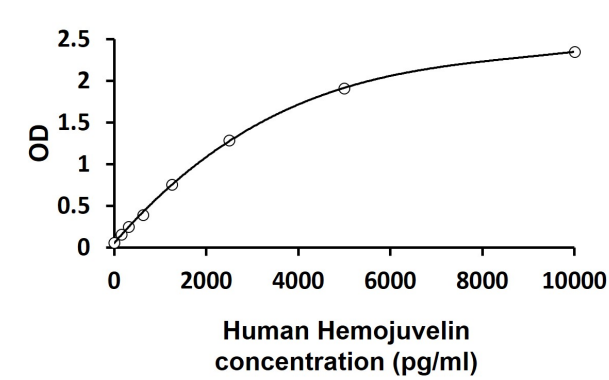
Assay Time	~ 5 hours
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Properties

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

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]



ARG81905 Human Hemojuvelin ELISA Kit standard curve image

ARG81905 Human Hemojuvelin ELISA Kit results of a typical standard run with optical density reading at 450 nm.