

Datasheet for ABIN5510628

HFE2 ELISA Kit**1** Image[Go to Product page](#)

Overview

Quantity:	96 tests
Target:	HFE2
Binding Specificity:	AA 36-396
Reactivity:	Rat
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Rat Hemojuvelin/RGM-C
Brand:	PicoKine™
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Expression system for standard: NSO Immunogen sequence: Q36-D396
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Target Details

Target:	HFE2
Alternative Name:	Hfe2 (HFE2 Products)
Background:	Protein Function: Acts as a bone morphogenetic protein (BMP) coreceptor. Through

Target Details

enhancement of BMP signaling regulates hepcidin (HAMP) expression and regulates iron homeostasis. .

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.

Synonyms: Hemojuvelin, Hemochromatosis type 2 protein homolog, RGM domain family member C, Hfe2, Rgmc,

Full Gene Name: Hemojuvelin

Cellular Localisation: Cell membrane, Lipid-anchor, GPI-anchor . Also released in the extracellular space..

UniProt: [Q8N7M5](#)

Pathways: [Transition Metal Ion Homeostasis](#)

Application Details

Plate: Pre-coated

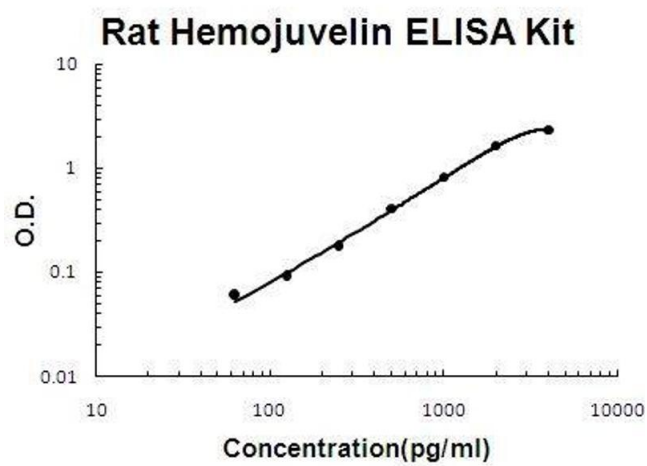
Restrictions: For Research Use only

Handling

Storage: 4 °C, -20 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

Expiry Date: 12 months



ELISA

Image 1. Rat Hemojuvelin/RGM-C PicoKine ELISA Kit standard curve