

Datasheet for KOA0830**Mouse Hemojuvelin ELISA Kit****Overview**

Description:	Mouse Hemojuvelin AccuSignal ELISA Kit - KOA0830
Item No.:	KOA0830
Size:	1 Kit
Applications:	ELISA
Reactivity:	Mouse
Range:	156 pg/ml - 10,000 pg/ml

Product Details

Background:	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.
Synonyms:	DL M,HEMOCHROMATOSIS, HEMOCHROMATOSIS DUE TO DEFECT IN HEMOJUVELIN, HEMOCHROMATOSIS DUE TO DEFECT IN HEPCIDIN ANTIMICROBIAL PEPTIDE, HEMOCHROMATOSIS JUVENILE, Hemochromatosis type 2, Hemochromatosis type 2 protein, Hemochromatosis type 2 protein homolog, HEMOCHROMATOSIS TYPE 2A, HEMOCHROMATOSIS TYPE 2B, HFE2A, HJV, JH, Juvenile, Repulsive guidance molecule c, RGM C, RGM domain family member C, RGMC
Detection Kit Type:	ELISA Kit
Detection Range:	156 pg/ml - 10,000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	HFE2
Reactivity:	Mouse

Immunogen:	Expression system for standard: NSO; Immunogen sequence: Q33-D393
Purity/Specificity:	Natural and recombinant mouse Hemojuvelin. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - Q7TQ32 • NCBI - NP_081402.3 • GenelD - 69585 • KOA0830 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 10,000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml mouse 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 mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each mouse Hemojuvelin standard solution and each sample be measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Anticoagulant:	Heparin Sodium
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Shipping & Handling

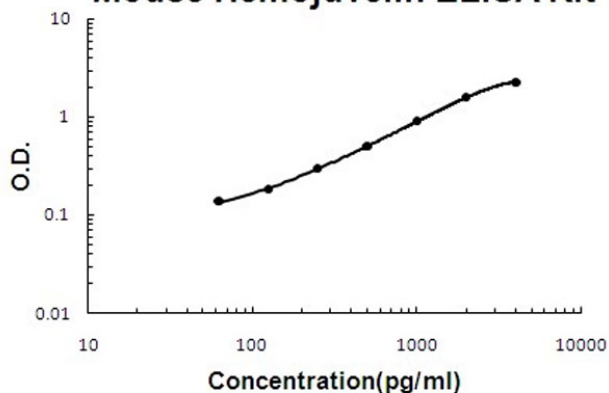
Shipping Condition:	Wet Ice
Storage Condition:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.
Expiration:	See kit insert for complete instructions.

Images

Mouse Hemojuvelin ELISA Kit

ELISA

Mouse Hemojuvelin ELISA Kit standard curve.



Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.