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Datasheet for ABIN2859238

HFE2 ELISA Kit





Overview

Quantity:	96 tests
Target:	HFE2
Binding Specificity:	AA 33-393
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	156-10.000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse Hemojuvelin
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: Q33-D393
Specificity:	Expression system for standard: NSO Immunogen sequence: Q33-D393
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

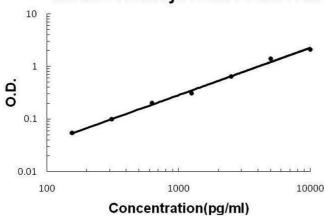
Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl
Target Details	
Target:	HFE2
Alternative Name:	HFE2 (HFE2 Products)
Background:	Protein Function: Acts as a bone morphogenetic protein (BMP) coreceptor. Through
	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 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: 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
Gene ID:	69585
JniProt:	Q7TQ32
Pathways:	Transition Metal Ion Homeostasis
Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
	assay was recommended for both standard and sample testing.

Application Details

Comment:	Tissue Specificity: Muscle cell lineage
Plate:	Pre-coated
Protocol:	mouse Hemojuvelin ELISA Kit was based on standard sandwich enzyme-linked immune-
	sorbent assay technology. A monoclonal antibody from rat specific for Hemojuvelin has been
	precoated onto 96-well plates. Standards(NSO, Q33-D393) 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. HRF
	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 mouse Hemojuvelin amount of sample captured in plate
Assay Procedure:	Aliquot 0.1 mL 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 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each
	properly diluted sample of mouse cell culture supernates, serum or plasma(heparin, EDTA) to
	each empty well. See "Sample Dilution Guideline" above for details. It is recommended that
	each mouse Hemojuvelin standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(ng/ml): 1.43, Standard deviation: 0.073, CV(%): 5.1
	 Sample 2: n=16, Mean(ng/ml): 3.06, Standard deviation: 0.113, CV(%): 3.7
	• Sample 3: n=16, Mean(ng/ml): 5.72, Standard deviation: 0.223, CV(%): 3.9,
	Sample 1: n=24, Mean(ng/ml): 1.46, Standard deviation: 0.11, CV(%): 7.5
	 Sample 2: n=24, Mean(ng/ml): 3.24, Standard deviation: 0.237, CV(%): 7.3 Sample 3: n=24, Mean(ng/ml): 5.91, Standard deviation: 0.402, CV(%): 6.8
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months

Mouse Hemojuvelin ELISA Kit



ELISA

Image 1. Mouse Hemojuvelin PicoKine ELISA Kit standard curve