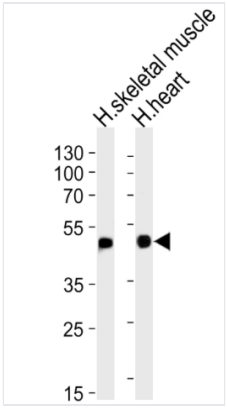
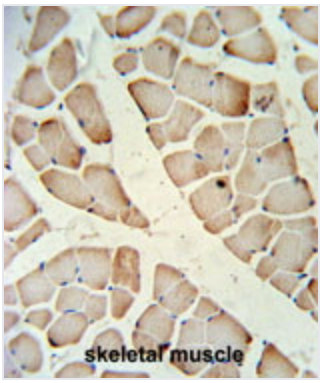
HFE2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HFE2, Polyclonal Antibody
Full Product Name	HFE2, ID (HFE2, HJV, RGMC, Hemojuvelin, Hemochromatosis type 2 protein, RGM domain family member C) (Azide free) (HRP)
Product Gene Name	anti-HFE2 antibody
Product Synonym Names	HFE2; HJV; RGMC; Hemojuvelin; Hemochromatosis type 2 protein; RGM domain family member C
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human HFE2.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	426
OMIM	phenotype 608374
3D Structure	ModBase 3D Structure for Q6ZVN8
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 134-162 in the central region of human HFE2, Swiss/UniProt Accession: Q6ZVN8
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-HFE2 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-HFE2 antibody	Immunohistochemistry (IHC) Paraffin, ELISA (EIA), Western Blot (WB)
Application Notes for anti-HFE2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-HFE2 antibody	MBS6306300 is an antibody targeting HFE2. Also known as HFE2, ID (HFE2, HJV, RGMC, Hemojuvelin, Hemochromatosis type 2 protein, RGM domain family member C) (Azide free) (HRP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-HFE2 antibody	1. Zhu, X., et al. Genet. Epidemiol. 34(2):171-187(2010). 2. Barton, J.C., et al. Am. J. Hematol. 84(11):710-714(2009). 3. Zhang, A.S., et al. J. Biol. Chem. 284(34):22580-22589(2009).
Other Notes	Small volumes of anti-HFE2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-HFE2 antibody
Western Blot analysis of lysates from human skeletal muscle and heart tissue lysates (from left to right, 35ug/lane), using MBS6003122 (1:1000/lane). IgG H&L (HRP) goat anti-rabbit was used as the secondary antibody.



Immunohistochemistry (IHC) of anti-HFE2 antibody
Immunohistochemistry analysis in formalin fixed and paraffin embedded skeletal muscle using MBS6003122 followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MBS6003122 for immunohistochemistry.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HFE2. It may not necessarily be applicable to this product.

NCBI GI #	51316254
NCBI GeneID	148738
NCBI Accession #	Q6ZVN8.1
UniProt Primary Accession #	Q6ZVN8
UniProt Secondary Accession #	Q2PQ63; Q6IMF6; Q8NAH2; Q8WVJ5; B1ALI7
UniProt Related Accession #	Q6ZVN8
NCBI Official Full Name	Hemojuvelin
NCBI Official Synonym Full Names	hemochromatosis type 2 (juvenile)
NCBI Official Symbol	HFE2
NCBI Official Synonym Symbols	JH; HJV; RGMC; HFE2A
UniProt Protein Name	Hemojuvelin
UniProt Synonym Protein Names	Hemochromatosis type 2 protein; RGM domain family member C
Protein Family	Hemojuvelin
UniProt Gene Name	HFE2
UniProt Synonym Gene Names	HJV; RGMC
UniProt Entry Name	RGMC_HUMAN
NCBI Protein Information	hemojuvelin; haemojuvelin; RGM domain family member C; repulsive guidance molecule c; hemochromatosis type 2 protein
NCBI Summary for HFE2	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]

UniProt Comments for HFE2	HFE2: Member of the repulsive guidance molecule (RGM) family. Involved in iron metabolism. Acts as a bone morphogenetic protein (BMP) coreceptor. Enhancement of BMP signaling regulates hepcidin (HAMP) expression and iron metabolism. May cooperate with hepcidin to restrict iron absorption in the gut. Could represent the cellular receptor for hepcidin. Defects in HFE2 are the cause of hemochromatosis type 2A (HFE2A); also known as juvenile hemochromatosis (JH). HFE2A 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. It is the consequence of intestinal iron hyperabsorption associated with macrophages that do not load iron. Deleterious mutations of HFE2 reduced HAMP (hepcidin) levels despite iron overload, which normally induces HAMP expression. Belongs to the repulsive guidance molecule (RGM) family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, GPI anchor Chromosomal Location of Human Ortholog: 1q21.1 Cellular Component: extracellular space; cell surface; plasma membrane Molecular Function: protein binding; coreceptor activity Biological Process: BMP signaling pathway; axon guidance; iron ion homeostasis; positive regulation of transcription from RNA polymerase II promoter Disease: Hemochromatosis, Type 2a
Research Articles on HFE2	**1.** In dialysis patients, hemojuvelin levels are significantly increased but obesity does not have an additional impact.
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