

**HFE2 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP9699b**

**Specification**

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**HFE2 Antibody (C-term) - Product Information**

|                   |   |
|-------------------|---|
| Application       | WB, FC,E  |
| Primary Accession | <a href="#">Q6ZVN8</a>                          |
| Other Accession   | <a href="#">Q8N7M5</a> , <a href="#">Q7TQ32</a> |
| Reactivity        | Human   |
| Predicted         | Mouse, Rat                                      |
| Host              | Rabbit  |
| Clonality         | Polyclonal                                      |
| Isotype           | Rabbit IgG                                      |
| Calculated MW     | 45080   |
| Antigen Region    | 308-338   |

**HFE2 Antibody (C-term) - Additional Information**

**Gene ID** 148738

**Other Names**

Hemojuvelin, Hemochromatosis type 2 protein, RGM domain family member C, HFE2, HJV, RGMC

**Target/Specificity**

This HFE2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 308-338 amino acids from the C-terminal region of human HFE2.

**Dilution**

WB~~1:1000  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

HFE2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**HFE2 Antibody (C-term) - Protein Information**

**Name** HJV ([HGNC:4887](#))

### Synonyms HFE2, RGMC

**Function** Acts as a bone morphogenetic protein (BMP) coreceptor (PubMed:[18976966](#)). Through enhancement of BMP signaling regulates hepcidin (HAMP) expression and regulates iron homeostasis (PubMed:[18976966](#)).

### Cellular Location

Cell membrane; Lipid-anchor, GPI- anchor. Note=Also released in the extracellular space

### Tissue Location

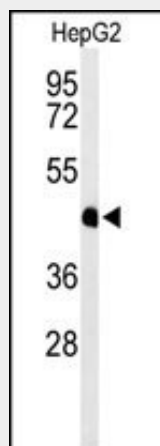
Adult and fetal liver, heart, and skeletal muscle.

## HFE2 Antibody (C-term) - Protocols

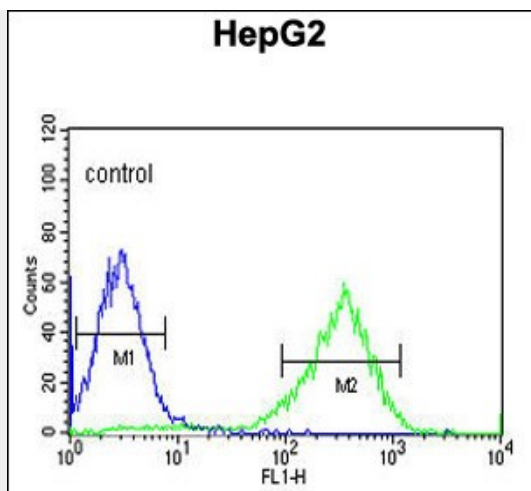
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## HFE2 Antibody (C-term) - Images



Western blot analysis of HFE2 Antibody (C-term) (Cat. #AP9699b) in HepG2 cell line lysates (35ug/lane). HFE2 (arrow) was detected using the purified Pab.



HFE2 Antibody (C-term) (Cat. #AP9699b) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **HFE2 Antibody (C-term) - Background**

HFE2 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.

#### **HFE2 Antibody (C-term) - References**

Zhu, X., et al. Genet. Epidemiol. 34(2):171-187(2010)  
Barton, J.C., et al. Am. J. Hematol. 84(11):710-714(2009)  
Zhang, A.S., et al. J. Biol. Chem. 284(34):22580-22589(2009)