

**HFE Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1622a**

**Specification**

**HFE Antibody - Product Information**

Application	<b>E, WB, IF</b>
Primary Accession	<a href="#">O30201</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>
Calculated MW	<b>40kDa KDa</b>

**Description**

The protein encoded by this gene is a membrane protein that is similar to MHC class I-type proteins and associates with beta2-microglobulin (beta2M). It is thought that this protein functions to regulate iron absorption by regulating the interaction of the transferrin receptor with transferrin. The iron storage disorder, hereditary haemochromatosis, is a recessive genetic disorder that results from defects in this gene. At least nine alternatively spliced variants have been described for this gene. Additional variants have been found but their full-length nature has not been determined.

**Immunogen**

Purified recombinant fragment of human HFE expressed in E. Coli. <br />

**Formulation**

Ascitic fluid containing 0.03% sodium azide.

**HFE Antibody - Additional Information**

**Gene ID** 3077

**Other Names**

Hereditary hemochromatosis protein, HLA-H, HFE, HLAH

**Dilution**

E~~1/10000  
WB~~1/500 - 1/2000  
IF~~1/200 - 1/1000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

HFE Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**HFE Antibody - Protein Information**

**Name** HFE

**Synonyms** HLAH

**Function**

Binds to transferrin receptor (TFR) and reduces its affinity for iron-loaded transferrin.

**Cellular Location**

Cell membrane; Single-pass type I membrane protein

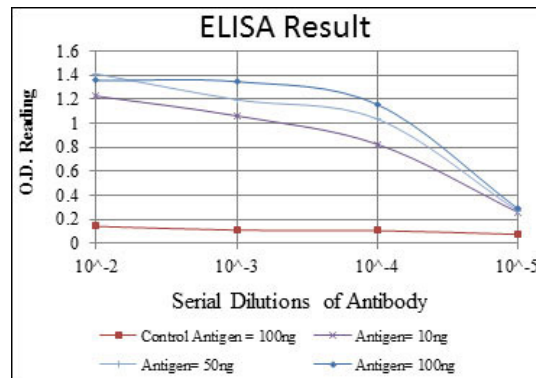
**Tissue Location**

Expressed in all tissues tested except brain.

**HFE Antibody - 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](#)



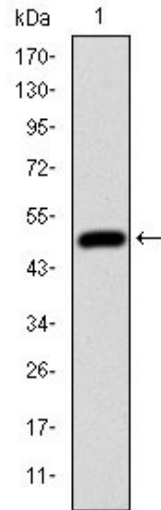


Figure 1: Western blot analysis using HFE mAb against human HFE (AA: 125-282) recombinant protein. (Expected MW is 44 kDa)

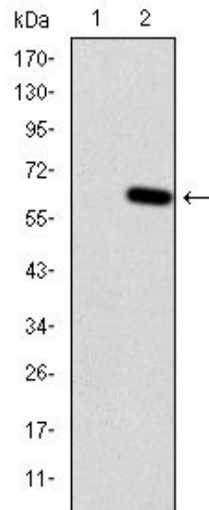


Figure 2: Western blot analysis using HFE mAb against HEK293 (1) and HFE(AA: 125-282)-hIgGFc transfected HEK293 (2) cell lysate.

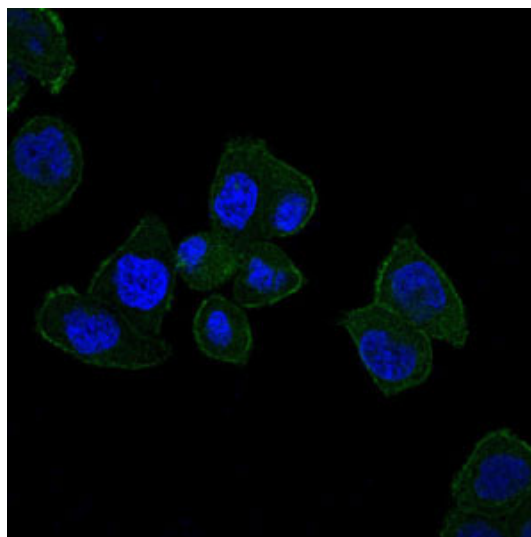


Figure 3: Immunofluorescence analysis of HepG2 cells using HFE mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

#### **HFE Antibody - References**

1. Respir Med. 2009 Dec;103(12):1866-70.
2. Clin J Am Soc Nephrol. 2009 Aug;4(8):1331-7.