

**HFE Antibody (monoclonal) (M01)**  
**Mouse monoclonal antibody raised against a partial recombinant HFE.**  
**Catalog # AT2361a**

## Specification

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### HFE Antibody (monoclonal) (M01) - Product Information

Application	WB, IF, E
Primary Accession	<a href="#">Q30201</a>
Other Accession	<a href="#">NM_000410</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	40108

### HFE Antibody (monoclonal) (M01) - Additional Information

**Gene ID** 3077

**Other Names**

Hereditary hemochromatosis protein, HLA-H, HFE, HLAH

**Target/Specificity**

HFE (NP\_000401, 115 a.a. ~ 205 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

IF~~1:50~200

E~~N/A

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

HFE Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

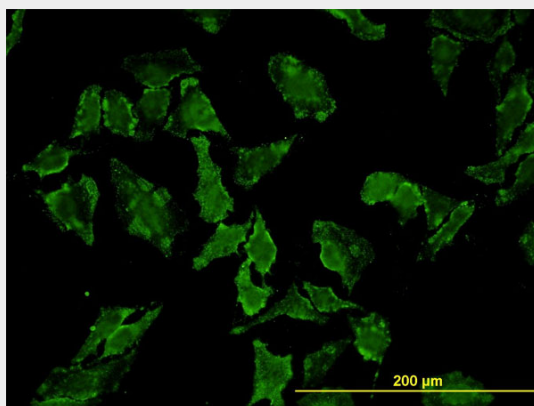
### HFE Antibody (monoclonal) (M01) - Protocols

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

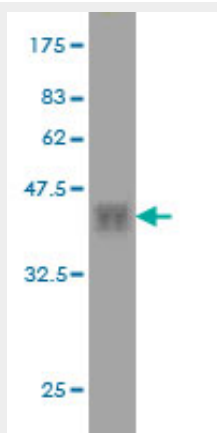
- [Western Blot](#)
- [Blocking Peptides](#)

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

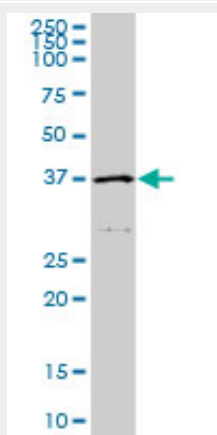
### HFE Antibody (monoclonal) (M01) - Images



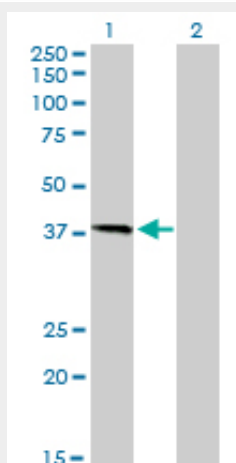
Immunofluorescence of monoclonal antibody to HFE on HeLa cell. [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (35.75 KDa) .



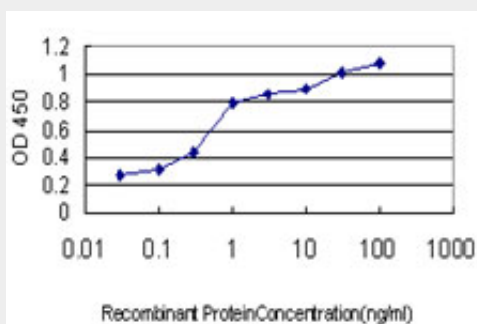
HFE monoclonal antibody (M01), clone 1G12. Western Blot analysis of HFE expression in A-431.



Western Blot analysis of HFE expression in transfected 293T cell line by HFE monoclonal antibody (M01), clone 1G12.

Lane 1: HFE transfected lysate(40.1 kDa).

Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged HFE is approximately 0.03ng/ml as a capture antibody.

### HFE Antibody (monoclonal) (M01) - Background

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.

### HFE Antibody (monoclonal) (M01) - References

1.Hemochromatosis Enhances Tumor Progression via Upregulation of Intracellular Iron in Head and Neck Cancer.Lenarduzzi M, Hui AB, Yue S, Ito E, Shi W, Williams J, Bruce J, Sakemura-Nakatsugawa N, Xu W, Schimmer A, Liu FFPLoS One. 2013 Aug 26;8(8):e74075. doi: 10.1371/journal.pone.0074075.