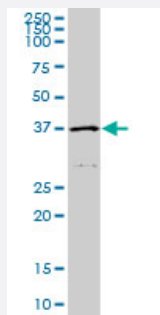


HFE monoclonal antibody (M01), clone 1G12

Catalog # H00003077-M01

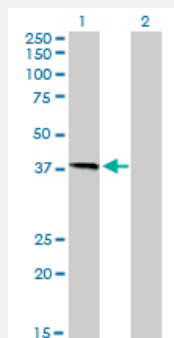
Size 100 ug

Applications



Western Blot (Cell lysate)

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

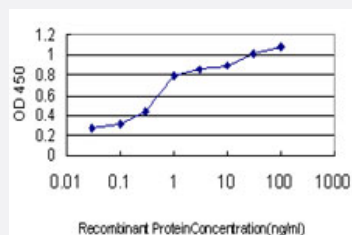


Western Blot (Transfected lysate)

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

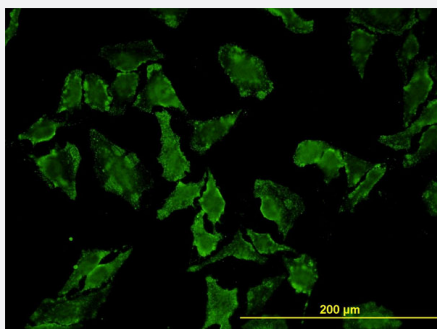
Lane 1: HFE transfected lysate(40.1 KDa).

Lane 2: Non-transfected lysate.



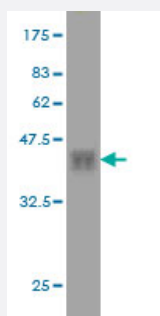
Sandwich ELISA (Recombinant protein)

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



Immunofluorescence

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



Western Blot detection against Immunogen (35.75 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant HFE.
Immunogen	HFE (NP_000401, 115 a.a. ~ 205 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	SHTLQVILGCEMQEDNSTEGYWKYGYDGQDHLEFCPDTLDWRAAEPRAWPTKLEWERHKIRAR QNRAYLERDCPAQLQQLELG RGVLDQQ
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (76); Rat (78)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (35.75 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

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

[Protocol Download](#)

- Western Blot (Transfected lysate)

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.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

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

[Protocol Download](#)

- ELISA

- Immunofluorescence

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

Gene Info — HFE

Entrez GeneID	3077
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GeneBank Accession#	NM_000410
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Protein Accession#	NP_000401
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Gene Name	HFE
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Gene Alias	HFE1, HH, HLA-H, MGC103790, dJ221C16.10.1
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Gene Description	hemochromatosis
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Omim ID [176200 235200](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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. [provided by RefSeq]

Other Designations

MHC class I-like protein HFE|hemochromatosis protein|hereditary hemochromatosis protein HLA-H

Publication Reference

- [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 FF. PLoS One 2013 Aug; 8(8):e74075.

Application: WB-Tr, Human, FaDu cells

Disease

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- [Activated Protein C Resistance](#)
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- [Adenocarcinoma](#)
- [Adenoma](#)
- [Adenomatous Polyps](#)
- [Albuminuria](#)
- [Alcoholism](#)
- [alpha 1-Antitrypsin Deficiency](#)
- [alpha-Thalassemia](#)

- [Alzheimer disease](#)
- [Amyotrophic lateral sclerosis](#)
- [Anemia](#)
- [Arteriosclerosis](#)
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- [Arthritis](#)
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- [Atherosclerosis](#)
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- [Brain Infarction](#)
- [Brain Ischemia](#)
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- [Cardiomyopathy](#)
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- [Werner syndrome](#)