10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

HFE Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1622a

Product Information

Application	WB, ICC, E
Primary Accession	Q30201
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	3F1
Isotype	IgG1
Calculated MW	40108
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.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	3077
Other Names	Hereditary hemochromatosis protein, HLA-H, HFE, HLAH
Dilution	WB~~1/500 - 1/2000 ICC~~N/A E~~1/10000
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.

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.

References

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

Images

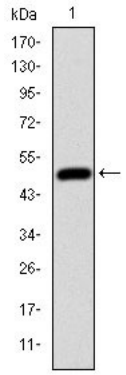

Figure 1: Western blot analysis using HFE mAb against human HFE (AA: 125-282) recombinant protein. (Expected MW is 44 kDa)

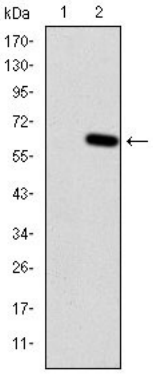

Figure 2: Western blot analysis using HFE mAb against HEK293 (1) and HFE(AA: 125-282)-hIgGFc transfected HEK293 (2) cell lysate.

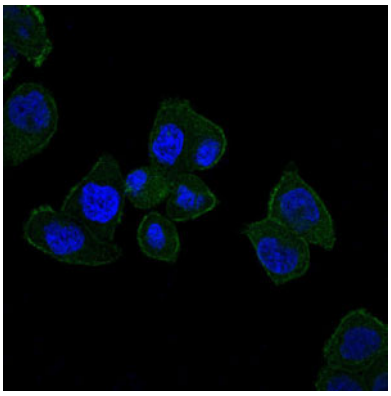

Figure 3: Immunofluorescence analysis of HepG2 cells using HFE mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.