

## HFE Hemochromatosis Antibody FITC Conjugated

Catalog No: #C01915F

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## Description

Product Name	HFE Hemochromatosis Antibody FITC Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	Flow-Cyt ICC IF
Species Reactivity	Hu Ms Rt
Immunogen Description	KLH conjugated synthetic peptide derived from human HFE Hemochromatosis
Conjugates	FITC
Target Name	HFE Hemochromatosis
Other Names	dJ221C16.10.1; Hemochromatosis; Hemochromatosis protein; Hereditary hemochromatosis protein; Hereditary hemochromatosis protein HLA H; HFE 1; HFE; HFE_HUMAN; HFE1; HH; High Fe; HLA H; HLA-H; HLAH; MGC:150812; MGC10379; MGC103790; MHC class I like protein HFE; MVCD7; TFQTL2.
Accession No.	NCBI Gene ID3077
Uniprot	Q30201
GeneID	3077;
Excitation Emission	494nm 518nm
Cell Localization	Extracellular
Concentration	1mg ml
Formulation	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

## Application Details

Flow-Cyt=1:50-200 ICC=1:50-200 IF=1:50-200

## Background

The features of hemochromatosis include cirrhosis of the liver, diabetes, hypermelanotic pigmentation of the skin, and heart failure. Since hemochromatosis is a relatively easily treated disorder if diagnosed, this is a form of preventable cancer. The HFE protein, which is defective in hereditary hemo-chromatosis, normally is expressed in crypt enterocytes of the duodenum where it has a unique, predominantly intracellular localization. In placenta, the HFE protein co-localizes with and forms a stable association with the transferrin receptor (TfR), providing a link between the HFE protein and iron transport. Immunocytochemistry shows that the HFE protein and TfR both are expressed in the crypt enterocytes. Western blots show that, as is the case in human placenta, the HFE protein in crypt enterocytes is physically associated with the TfR and with ?22-microglobulin. It is proposed that HFE has two mutually exclusive activities in cells: inhibition of uptake or inhibition of release of iron and that the balance between serum transferrin saturation and serum transferrin-receptor concentrations determines which of these functions predominates. The gene which encodes HFE maps to human chromosome 6p21.3.

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Note: This product is for in vitro research use only