

Datasheet for ABIN5004564

**anti-HFE antibody (AA 262-348) (AbBy Fluor® 750)**[Go to Product page](#)

## Overview

|                      |                                                                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                                                                   |
| Target:              | HFE                                                                                                                                                      |
| Binding Specificity: | AA 262-348                                                                                                                                               |
| Reactivity:          | Human                                                                                                                                                    |
| Host:                | Rabbit                                                                                                                                                   |
| Clonality:           | Polyclonal                                                                                                                                               |
| Conjugate:           | This HFE antibody is conjugated to AbBy Fluor® 750                                                                                                       |
| Application:         | Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)),<br>Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

## Product Details

|                       |                                                                         |
|-----------------------|-------------------------------------------------------------------------|
| Immunogen:            | KLH conjugated synthetic peptide derived from human HFE/Hemochromatosis |
| Isotype:              | IgG                                                                     |
| Cross-Reactivity:     | Human                                                                   |
| Predicted Reactivity: | Mouse,Rat,Dog,Cow,Sheep,Horse                                           |
| Purification:         | Purified by Protein A.                                                  |

## Target Details

|                   |                                                      |
|-------------------|------------------------------------------------------|
| Target:           | HFE                                                  |
| Alternative Name: | HFE/Hemochromatosis ( <a href="#">HFE Products</a> ) |

## Target Details

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Background: | <p>Synonyms: 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.</p> <p>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.</p> <p>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 <math>\alpha_2</math>-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.</p> |
| Gene ID:    | 3077                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Pathways:   | <a href="#">Transition Metal Ion Homeostasis</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Application Details

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|--------------------|----------------------------------------------------------------------------------------------|
| Application Notes: | FCM 1:20-100<br>IF(IHC-P) 1:50-200<br>IF(IHC-F) 1:50-200<br>IF(ICC) 1:50-200                 |
| Restrictions:      | For Research Use only                                                                        |
| Handling           |                                                                                              |
| Format:            | Liquid                                                                                       |
| Concentration:     | 1 $\mu$ g/ $\mu$ L                                                                           |
| Buffer:            | Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and |

## Handling

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|                    |                                                                                                                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------|
|                    | 50 % Glycerol.                                                                                                     |
| Preservative:      | ProClin                                                                                                            |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage:           | -20 °C                                                                                                             |
| Storage Comment:   | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.                                  |
| Expiry Date:       | 12 months                                                                                                          |