

## **Anti-HFE Picoband Antibody**

Catalog # ABO10085

# **Specification**

# **Anti-HFE Picoband Antibody - Product Information**

Application WB
Primary Accession Q30201
Host Reactivity Human
Clonality Polyclonal
Format Lyophilized

**Description** 

Rabbit IgG polyclonal antibody for Hereditary hemochromatosis protein(HFE) detection. Tested with WB in Human.

#### Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

# **Anti-HFE Picoband Antibody - Additional Information**

**Gene ID 3077** 

#### **Other Names**

Hereditary hemochromatosis protein, HLA-H, HFE, HLAH

# Calculated MW 40108 MW KDa

# **Application Details**

Western blot, 0.1-0.5 μg/ml, Human<br>

# **Subcellular Localization**

Cell membrane; Single-pass type I membrane protein.

#### **Tissue Specificity**

Expressed in all tissues tested except brain.

# **Protein Name**

Hereditary hemochromatosis protein

## **Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

### **Immunogen**

E.coli-derived human HFE recombinant protein (Position: Q82-R199). Human HFE shares 72.2% and 74.6% amino acid (aa) sequence identity with mouse and rat HFE, respectively.

#### **Purification**

Immunogen affinity purified.



**Cross Reactivity** 

No cross reactivity with other proteins.

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

# **Anti-HFE Picoband Antibody - 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.

# **Anti-HFE Picoband Antibody - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# **Anti-HFE Picoband Antibody - Images**



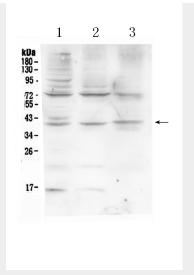


Figure 1. Western blot analysis of HFE using anti-HFE antibody (ABO10085). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: HELA whole Cell lysates, Lane 2: HEPG2 whole Cell lysates, Lane 3: A431 whole Cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-HFE antigen affinity purified polyclonal antibody (Catalog # ABO10085) at 0.5  $\hat{l}$ /4g/mL overnight at 4 $\hat{A}$ °C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for HFE at approximately 40KD. The expected band size for HFE is at 40KD.

## **Anti-HFE Picoband Antibody - Background**

Human hemochromatosis protein also known as the HFE protein is a protein which in humans is encoded by the HFE gene. The HFE gene is located on short arm of chromosome 6 at location 6p21.3. 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.