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Anti-HFE Picoband Antibody

Catalog # ABO10085

Specification

Anti-HFE Picoband Antibody - Product Information

Application	**WB**
Primary Accession	Q30201
Host	**Rabbit**
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

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

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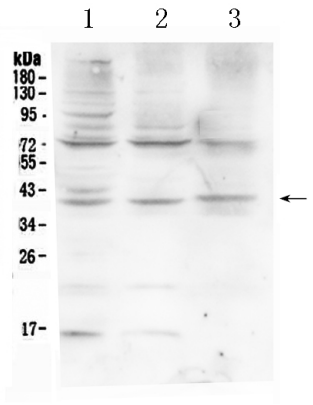

Figure 1. Western blot analysis of HFE using anti-HFE antibody (ABO10085). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: HELA whole Cell lysates, 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 Î¼g/mL overnight at 4Â°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.