Anti-Hepcidin-25 antibody [EPR18074] ab187778

Overview

Product name  Anti-Hepcidin-25 antibody [EPR18074]
Description  Rabbit monoclonal [EPR18074] to Hepcidin-25
Host species  Rabbit
Tested applications  Suitable for: WB
Species reactivity  Reacts with: Rat, Human
Immunogen  Synthetic peptide within Human Hepcidin-25 aa 1 to the C-terminus. The exact sequence is proprietary.
Database link: P81172
Positive control  WB: Human Hepcidin fragment protein; Human plasma, serum and liver lysate; Rat serum treated with LPS.

General notes

Our RabMab® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents.

This product is a recombinant rabbit monoclonal antibody.

Properties

Form  Liquid
Storage buffer  Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity  Protein A purified
Clonality  Monoclonal
Clone number  EPR18074
Isotype  IgG
Function
Liver-produced hormone that constitutes the main circulating regulator of iron absorption and distribution across tissues. Acts by promoting endocytosis and degradation of ferroportin, leading to the retention of iron in iron-exporting cells and decreased flow of iron into plasma. Controls the major flows of iron into plasma: absorption of dietary iron in the intestine, recycling of iron by macrophages, which phagocytose old erythrocytes and other cells, and mobilization of stored iron from hepatocytes (PubMed:22306005).

Tissue specificity
Highest expression in liver and to a lesser extent in heart and brain. Low levels in lung, tonsils, salivary gland, trachea, prostate gland, adrenal gland and thyroid gland. Secreted into the urine.

Involvement in disease
Hemochromatosis 2B

Sequence similarities
Belongs to the hepcidin family.

Cellular localization
Secreted.

Form
Hepcidin produces a propeptide of 84 amino acids that undergoes enzymatic cleavage into mature peptides of 20, 22, and 25 amino acids. Active peptides are rich in cysteines that form intramolecular bonds and stabilize the beta-sheet structure.

Images

Anti-Hepcidin-25 antibody [EPR18074] (ab187778) at 1/5000 dilution + Human Hepcidin fragment protein at 0.01 µg

Secondary
Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 9 kDa
Observed band size: 17 kDa

why is the actual band size different from the predicted?

Exposure time: 1 second
In house recombinant Human Hepcidin is a His-tagged fragment protein (aa25-84).

**Western blot - Anti-Hepcidin-25 antibody [EPR18074] (ab187778)**

**All lanes**: Anti-Hepcidin-25 antibody [EPR18074] (ab187778) at 1/1000 dilution

- **Lane 1**: Human plasma
- **Lane 2**: Human serum
- **Lane 3**: Human liver lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes**: Goat Anti-Rabbit IgG H&L (HRP), preadsorbed at 1/50000 dilution

**Predicted band size**: 9 kDa

**Observed band size**: 3 kDa *why is the actual band size different from the predicted?*

Blocking/Dilution buffer: 5% NFDM/TBST.

Dilution buffer: 1% NFDM/TBST.

**Lanes 1-2**: Anti-Hepcidin-25 antibody [EPR18074] (ab187778) at 1/1000 dilution

**Lanes 3-4**: Anti-Hepcidin-25 antibody (ab30760) at 1/1000 dilution

**Lanes 1 & 3**: Rat serum treated with LPS at 30 µg
**Lanes 2 & 4**: Rat serum treated with LPS at 10 µg

**Secondary**

**All lanes**: Goat Anti-Rabbit IgG H&L (HRP), preadsorbed at 1/50000 dilution

**Predicted band size**: 9 kDa

**Observed band size**: 10.3 kDa *why is the actual band size different from the predicted?*

**Exposure time**: 3 minutes
Blocking buffer: 5% NFDM/TBST.

Dilution buffer: 1% NFDM/TBST.

ab187778 has similar reactivity to rabbit polyclonal ab30760.

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