abcam

Product datasheet

Human Hepcidin-25 peptide ab31875

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Description

Product name Human Hepcidin-25 peptide

Purity > 70 % HPLC.

70 - 90% by HPLC

Accession P81172

Animal free No

Nature Synthetic

Species Human

Specifications

Our Abpromise guarantee covers the use of ab31875 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications Blocking - Blocking peptide for Anti-Hepcidin-25 antibody (ab30760)

ELISA

Form Lyophilized

Additional notes Storage buffer: 10% 0.5M acetic acid, 90% TK buffer. pH 3.6

Solutions of ab31875, diluted 10 times, in TBST (80%) and PBS (10%) have a pH of 5.1

Preparation and Storage

Stability and Storage Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw

cycles.

Information available upon request.

Reconstitution Reconstitute in 10% 0.5M acetic acid, 90% TK buffer. If the peptide doesn't dissolve try an

organic solvent like DMSO, then dilute using water or buffer. Gentle warming and sonication can

effectively aid peptide solubilisation

General Info

Function Liver-produced hormone that constitutes the main circulating regulator of iron absorption and

1

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).

Has strong antimicrobial activity against E.coli ML35P N.cinerea and weaker against S.epidermidis, S.aureus and group b streptococcus bacteria. Active against the fungus C.albicans. No activity against P.aeruginosa (PubMed:11113131, PubMed:11034317).

Tissue specificity Highest expression in liver and to a lesser extent in heart and brain. Low levels in lung, tonsils,

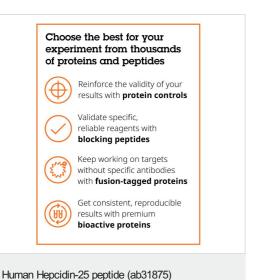
salivary gland, trachea, prostate gland, adrenal gland and thyroid gland. Secreted into the urine.

Involvement in disease Hemochromatosis 2B

Sequence similarities Belongs to the hepcidin family.

Cellular localization Secreted.

Images



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