

Anti-Hepcidin-25 [4C11] Standard Size Ab03567-10.0

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Kappa

Clone Number: 4C11

Alternative Name(s) of Target: HAMP; hHepc; HEPC; LEAP1; LEAP-1; Hepcidin; Liver-expressed antimicrobial peptide 1; hepcidin-22

UniProt Accession Number of Target Protein: P81172

Published Application(s): ELISA

Published Species Reactivity: Rat, Human, Mouse

Immunogen: The original antibody was generated by immunizing mice with immunized with a N-terminal hepcidin peptide 'DTHFPIC' conjugated with a five amino acid peptide linker (i.e., GP GPG) to an OVA peptide (amino acids 323-336) sequence, i.e., full-length immunogen DTHFPICGP GPGISQAVHAAHAEINE.

Specificity: This antibody binds human hepcidin-25 in the N-terminus region. This antibody also cross reacts with mouse and rat hepcidin-2, to a much lesser degree, human hepcidin-22 but not human hepcidin-20. Hepcidin is a an iron-regulating peptide hormone made in the liver. Hepcidin is a cationic, cysteine-rich and tightly folded peptide stabilized by 4 disulfide bonds that plays a major role in innate immunity and iron homeostasis. It controls the delivery of iron to blood plasma from intestinal cells absorbing iron, from erythrocyte-recycling macrophages, and from iron-storing hepatocytes. Hepcidin acts by binding to and inactivating the sole cellular iron exporter, ferroprotein, which delivers iron to plasma from all iron-transporting cells.

Application Notes: This antibody can be used for the detection of human, rat or mouse hepcidin-25 using ELISA. This antibody can also detect human hepcidin-22 with a binding affinity of $K_d = 209\text{nM}$ (US8609817).

Antibody First Published in: [PMID:](#)

Note on publication:

Product Form

Size: 100 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -

20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.