

Anti-Hepcidin-25 [4C11] Standard Size Ab03567-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

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, Fc Silent™, 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.