

## Anti-Hepcidin-25 [OH4] Bulk Size Ab03566-10.3-BT

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:** OH4

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

**UniProt Accession Number of Target Protein:** P81172

**Published Application(s):** ELISA

**Published Species Reactivity:** Human

**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., GPGPG) to an OVA peptide (amino acids 323-336) sequence, i.e., full-length immunogen DTHFPICGPGPGISQAVHAAHAEINE.

**Specificity:** This antibody binds human hepcidin-25 near the N-terminus region and does not cross react with human hepcidin-20 or human hepcidin-22. This antibody also does not cross react with mouse or rat hepcidin-25. 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:** The original mouse IgG1 antibody binds human hepcidin-25 with a binding affinity of  $k_d = 1.2$  nM. The binding characterization of this antibody towards human hepcidin was done using ELISA (US8609817).

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

**Note on publication:**

## Product Form

**Size:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.