



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-Hepcidin-25 [23F11] Standard Size Ab03569-11.3

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

**Isotype and Format:** Human IgG2, Fc Silent™, Kappa

**Clone Number:** 23F11

**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 Xenomouse™ IgG2κλ and IgG4κλ with KLH-conjugated human hepcidin peptide 'DTHFPICIFCCGCHRSKCGMCCCKT'.

**Specificity:** This antibody is specific for amino acids 'DTHFPICIFCCGCHRSKCGMCCCKT' of human hepcidin-25 and does not cross react with murine hepcidin-25. Hepcidin is 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 IgG antibody binds human hepcidin-25 with a binding affinity of  $K_d = 70$  pM (PMID: 19553669). This antibody can be used in combination with another anti-hepcidin antibody 19D12 for detection of human hepcidin in human serum using a sandwich ELISA. 19D12 was used as a capture antibody and 23F11 was used for detection. The limit of sensitivity for the assay was 30 pg/mL (PMID: 23945155).

**Antibody First Published in:** Cooke et al. A fully human anti-hepcidin antibody modulates iron metabolism in both mice and nonhuman primates. Blood. 2013 Oct 24;122(17):3054-61. PMID:23945155

**Note on publication:** Describes the development of a fully human antibody for use as a potential therapeutic to treat anemia of inflammation (AI) in patients with kidney disease or cancer.

### 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.