

**HAMP Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9459c****Specification**

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**HAMP Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P81172](#)**HAMP Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 57817**Other Names**

Hepcidin, Liver-expressed antimicrobial peptide 1, LEAP-1, Putative liver tumor regressor, PLTR, Hepcidin-25, Hepc25, Hepcidin-20, Hepc20, HAMP, HEPC, LEAP1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**HAMP Antibody (Center) Blocking Peptide - Protein Information****Name** HAMP ([HGNC:15598](#))**Synonyms** HEPC, LEAP1**Function**

Liver-produced hormone that constitutes the main circulating regulator of iron absorption and distribution across tissues. Acts by promoting endocytosis and degradation of ferroportin/SLC40A1, leading to the retention of iron in iron-exporting cells and decreased flow of iron into plasma (PubMed:<a href="http://www.uniprot.org/citations/22682227" target="\_blank">22682227</a>, PubMed:<a href="http://www.uniprot.org/citations/29237594" target="\_blank">29237594</a>, PubMed:<a href="http://www.uniprot.org/citations/32814342" target="\_blank">32814342</a>). 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:<a href="http://www.uniprot.org/citations/22306005" target="\_blank">22306005</a>).

**Cellular Location**

Secreted.

**Tissue Location**

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 and blood (PubMed:11034317). Expressed by hepatocytes (PubMed:15124018).

### **HAMP Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### **HAMP Antibody (Center) Blocking Peptide - Images**

### **HAMP Antibody (Center) Blocking Peptide - Background**

HAMP is involved in the maintenance of iron homeostasis, and it is necessary for the regulation of iron storage in macrophages, and for intestinal iron absorption. The preproprotein is post-translationally cleaved into mature peptides of 20, 22 and 25 amino acids, and these active peptides are rich in cysteines, which form intramolecular bonds that stabilize their beta-sheet structures. These peptides exhibit antimicrobial activity.

### **HAMP Antibody (Center) Blocking Peptide - References**

Matsumoto, M., et al. Circ. J. 74(2):301-306(2010)del Giudice, E.M., et al. J. Clin. Endocrinol. Metab. 94(12):5102-5107(2009)Kwapisz, J., et al. J Zhejiang Univ Sci B 10(11):791-795(2009)Barton, J.C., et al. Am. J. Hematol. 84(11):710-714(2009)Nemeth, E., et al. Acta Haematol. 122 (2-3), 78-86 (2009) Hunter, H.N., et al. J. Biol. Chem. 277(40):37597-37603(2002)Kluver, E., et al. J. Pept. Res. 59(6):241-248(2002)