

**HAMP Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP9459C****Specification**

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**HAMP Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P81172</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	9408
Antigen Region	17-46

**HAMP Antibody (Center) - 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

**Target/Specificity**

This HAMP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 17-46 amino acids from the Central region of human HAMP.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

HAMP Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**HAMP Antibody (Center) - 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:[22682227](#), PubMed:[29237594](#), PubMed:[32814342](#)). 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:[22306005](#)).

#### Cellular Location

Secreted.

#### Tissue Location

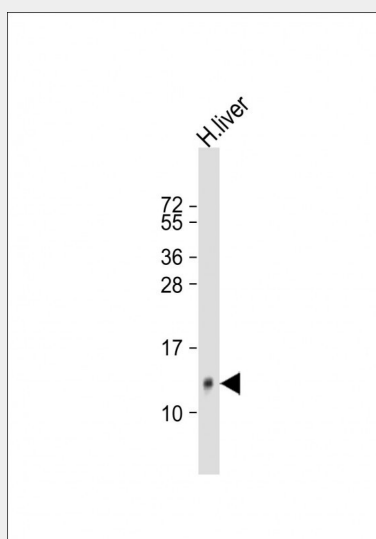
Highest expression in liver and to a lesser extent in heart and brain. Low levels in lung, tonsils, salivary gland, trachea, prostate gland, adrenal gland and thyroid gland. Secreted into the urine and blood (PubMed:11034317). Expressed by hepatocytes (PubMed:15124018).

### HAMP Antibody (Center) - Protocols

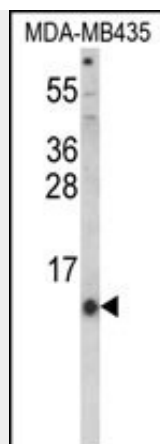
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### HAMP Antibody (Center) - Images



Anti-HAMP Antibody (Center) at 1:500 dilution + human liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 9 kDa Blocking/Dilution buffer: 5% NFD/MTBST.



Western blot analysis of HAMP Antibody (Center) (Cat. #AP9459c) in MDA-MB435 cell line lysates (35ug/lane). HAMP (arrow) was detected using the purified Pab.

#### **HAMP Antibody (Center) - 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) - 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)