

Hepcidin-25 Rabbit pAb

Catalog # AP97341

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P81172
Other Accession	P81172
Host	Rabbit
Clonality	Polyclonal
Calculated MW	9408
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Hepcidin-25
Epitope Specificity	60-84/84
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the hepcidin family.
DISEASE	Defects in HAMP are the cause of hemochromatosis type 2B (HFE2B) [MIM:613313]; also known as juvenile hemochromatosis (JH). HFE2B is a disorder of iron metabolism with excess deposition of iron in the tissues, bronze skin pigmentation, hepatic cirrhosis, arthropathy and diabetes. The most common symptoms of hemochromatosis type 2 at presentation are hypogonadism and cardiomyopathy.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The product encoded by this gene 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. Mutations in this gene cause hemochromatosis type 2B, also known as juvenile hemochromatosis, a disease caused by severe iron overload that results in cardiomyopathy, cirrhosis, and endocrine failure. [provided by RefSeq, Jul 2008].

Additional Information

Gene ID	57817
Other Names	HEPC; HFE2B; LEAP1; PLTR; Hamp1; Hepc1; HEPC_HUMAN; HAMP; Liver-expressed antimicrobial peptide 1 (LEAP-1); Putative liver tumor regressor (PLTR); HEPC_MOUSE; HEPC_RAT; hepcidin antimicrobial peptide
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.