



Anti-HAMP polyclonal antibody (CPBT-35229RH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Rabbit Polyclonal antibody to Human HAMP.
Antigen Description	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.
Specificity	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.
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 50 to the C-terminus of Human Hephcidin-25. (Immunogen available as DAG-P0534)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Mouse, Rat, Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	ICC/IF, WB, IHC-Fr, IHC-P

Sequence Similarities	Belongs to the hepcidin family.
Cellular Localization	Secreted.
Format	Hepcidin produces a propeptide of 84 amino acids that undergoes enzymatic cleavage into mature peptides of 20, 22, and 25 amino acids. Active peptides are rich in cysteines that form intramolecular bonds and stabilize the beta-sheet structure
Size	100 µg
Buffer	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
Preservative	0.02% Sodium Azide
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	HAMP hepcidin antimicrobial peptide [Homo sapiens]
Official Symbol	HAMP
Synonyms	HAMP; hepcidin antimicrobial peptide; hepcidin; HEPC; HFE2B; LEAP 1; LEAP1; Hamp; HEPC; HEPC_HUMAN; Hepc20; Hepc25; HEPCIDIN; Hepcidin 20; Hepcidin 25; Hepcidin antimicrobial peptide; Hepcidin-20; Hepcidin25; HFE2; HFE2B; LEAP 1; LEAP-1; LEAP1; Liver expressed antimicrobial peptide; Liver-expressed antimicrobial peptide 1; PLTR; Putative liver tumor regressor; putative liver tumor regressor; liver-expressed antimicrobial peptide 1; PLTR;
Entrez Gene ID	57817
Protein Refseq	NP_066998
UniProt ID	P81172
Chromosome Location	19q13.1
Function	hormone activity;