

Human Hepcidin (Hepc) CLIA Kit | Hepc clia kit

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CATALOG #
AAA151166

REACTIVITY
Human

PRODUCT SYNONYMS

Hepcidin (Hepc); Human Hepcidin (Hepc) CLIA Kit; Hepc/Hepcidin; HAMP; HFE2B; PLTR; LEAP1; Hepcidin Antimicrobial Peptide; Liver-expressed antimicrobial peptide 1; Putative liver tumor regressor; Hepc clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of hepcidin. No significant cross-reactivity or interference between hepcidin and analogues was observed.
Assay Type	Quantitative Competitive
Samples	Human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	78.13-20,000pg/mL
Sensitivity	< 27.74pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level hepcidin were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level hepcidin were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term(within shelf life) Shelf Life: 8 months The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

ADDITIONAL INFORMATION

Related Product Information for Hepc clia kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with a monoclonal antibody specific to hepcidin. A competitive inhibition reaction is launched between biotin labeled hepcidin and unlabeled hepcidin (Standards or samples) with the pre-coated antibody specific to hepcidin. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of hepcidin in the sample. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is reverse proportional to the hepcidin level in the sample or standard. Intended Uses: The Chemiluminescent Immunoassay kit is designed for the in vitro sensitive quantitative measurement of hepcidin in human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for Hepc clia kit	Metabolic pathway; Endocrinology; Hematology; Genetic science

NCBI AND UNIPROT INFORMATION

NCBI GI #	10863973
NCBI GeneID	57817
NCBI Accession #	NP_066998.1
NCBI GenBank Nucleotide #	NM_021175.2
UniProt Accession #	P81172; Q1HE14; Q9BY68
Molecular Weight	9,408 Da
NCBI Official Full Name	hepcidin preproprotein
NCBI Official Synonym Full Names	hepcidin antimicrobial peptide
NCBI Official Symbol	HAMP
NCBI Official Synonym Symbols	HEPC; PLTR; HFE2B; LEAP1
NCBI Protein Information	hepcidin; putative liver tumor regressor; liver-expressed antimicrobial peptide 1
UniProt Protein Name	Hepcidin
UniProt Gene Name	HAMP
UniProt Synonym Gene Names	HEPC; LEAP1; LEAP-1; PLTR; Hpc25; Hpc20
UniProt Entry Name	HEPC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-clia-kits/hepcidin-hepc/151166>