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HAMP Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a full length recombinant HAMP.
Catalog # AT2313a

Product Information

Application	WB, E
Primary Accession	P81172
Other Accession	BC020612
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	1F9
Calculated MW	9408

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	HAMP (AAH20612, 25 a.a. ~ 84 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	HAMP Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

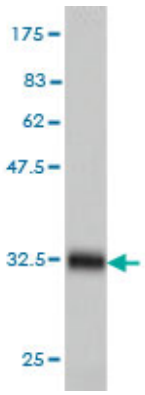
Background

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.

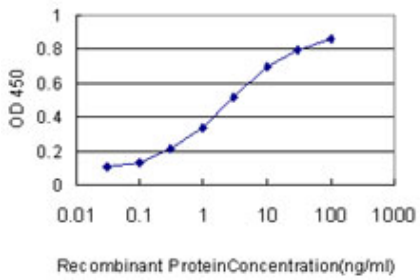
References

Examination of genetic polymorphisms in newborns for signatures of sex-specific prenatal selection. Ucisik-Akkaya E, et al. Mol Hum Reprod, 2010 Oct. PMID 20587610.Serum prohepcidin levels in Helicobacter pylori infected patients with iron deficiency anemia. Lee SY, et al. Korean J Intern Med, 2010 Jun. PMID 20526394.Serum pro-hepcidin could reflect disease activity in patients with rheumatoid arthritis. Kim HR, et al. J Korean Med Sci, 2010 Mar. PMID 20191031.Human mutation D157G in ferroportin leads to hepcidin-independent binding of Jak2 and ferroportin down-regulation. De Domenico I, et al. Blood, 2010 Apr 8. PMID 20124516.Characterization of the transition-metal-binding properties of hepcidin. Tselepis C, et al. Biochem J, 2010 Mar 29. PMID 20113314.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (32.34 KDa) .



Detection limit for recombinant GST tagged HAMP is approximately 0.03ng/ml as a capture antibody.