



BMA BIOMEDICALS



Peninsula Laboratories

S-1483

Hepcidin-25 (rat) ELISA [UniProt: Q99MH3]

Hepcidin-25 is a 25-residue peptide synthesized in the liver. This is the bioactive form of hepcidin, a key regulator of iron homeostasis. It acts through downregulation of the cellular iron exporter ferroportin, which is expressed on enterocytes, macrophages and hepatocytes. Hepcidin-25 production is upregulated by inflammation as well as iron overload, leading to anemia through interference with the body's intestinal iron absorption and its utilization of iron. Hepcidin is also a small defensin-like peptide with anti-microbial activity, which is secreted into the urine.

This ELISA was developed with serum from rabbits immunized with Hepcidin-25 coupled to a carrier protein.

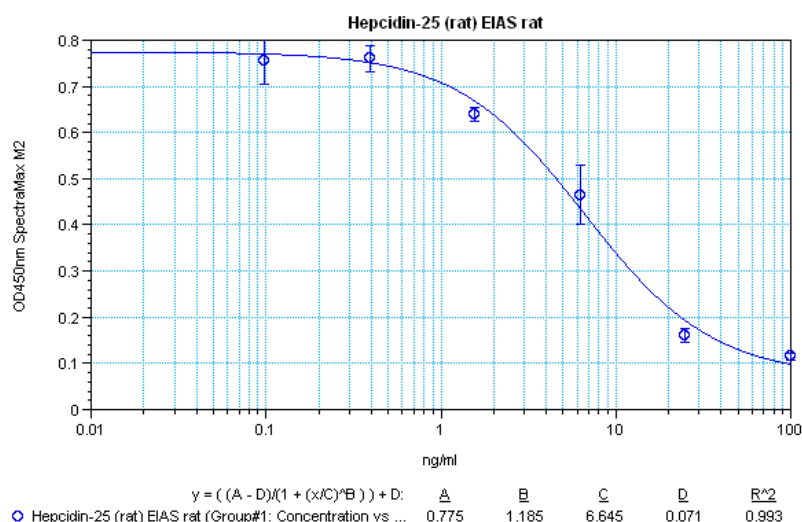
TECHNICAL AND ANALYTICAL CHARACTERISTICS

Lot number:	A17702
Host species:	Rabbit IgG
Quantity:	96 tests
Format:	Extraction-free kit for rat serum or plasma (EIAS type).
Shelf-life:	One year from production date. Store refrigerated at 4° - 8°C.
Applications:	This ELISA has been validated with the included reagents. It is intended to be used with samples of rat origin (original protocol V, Ab1hr.Std2hr.BtON). For research use only. Please see www.bma.ch for protocols and general information.
Range:	0 – 100ng/ml
Average IC50:	6ng/ml
Immunogen:	Synthetic peptide H-Asp-Thr-Asn-Phe-Pro-Ile-Cys-Leu-Phe-Cys-Cys-Lys-Cys-Cys-Lys-Asn-Ser-Ser-Cys-Gly-Leu-Cys-Cys-Ile-Thr-OH coupled to carrier protein.

Cross-Reactivity:

PEPTIDE	%
Hepcidin-25 (rat)	100
Hepcidin-25 (human)	10
Hepcidin-25 (mouse)	0

Typical titration curve of Hepcidin-25 in a competitive ELISA with this antibody:



Suggested Preparation of Standards		
	ng/ml	Range: 0.10 to 100ng/ml
Stock	1000	
S1	100.00	Add 100µl Stock + 900µl diluent
S2	25.00	Add 200µl S1 + 600µl diluent
S3	6.25	Add 200µl S2 + 600µl diluent
S4	1.56	Add 200µl S3 + 600µl diluent
S5	0.39	Add 200µl S4 + 600µl diluent
S6	0.10	Add 200µl S5 + 600µl diluent
S0	0.00	500µl diluent

Related Products:

T-4866: anti Hepcidin-25, (ms) purified IgG
 S-1337: ELISA, extraction-free for serum and plasma sample
 S-1465: ELISA, high sensitivity for extracted mouse samples
 S-1482: ELISA, high sensitivity for extracted rat samples
 S-1328: ELISA, high sensitivity for extracted human sample

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Purchase of this product does not include authorization to use it in diagnostic or therapeutic applications.

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EIAS

28.1.2021