



Horse Leptin(LEP) ELISA kit

Product Code	CSB-EL012870HO
Abbreviation	LEP
Target Name	leptin
Uniprot No.	Q9TU09
Alias	FLJ94114, OB, OBS, leptin (murine obesity homolog) leptin (obesity homolog, mouse) obese, mouse, homolog of obesity factor
Product Type	ELISA Kit
Immunogen Species	Equus caballus (Horse)
Sample Types	serum, plasma, tissue homogenates
Detection Range	3.12 pg/mL-200 pg/mL
Sensitivity	0.78 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Metabolism
Gene Names	LEP
Tag Info	quantitative
Protein Description	Competitive
Description	This Horse LEP ELISA Kit was designed for the quantitative measurement of Horse LEP protein in serum, plasma, tissue homogenates. It is a Competitive ELISA kit, its detection range is 3.12 pg/mL-200 pg/mL and the sensitivity is 0.78 pg/mL.
Target Details	This gene encodes a protein that is secreted by white adipocytes, and which plays a major role in the regulation of body weight. This protein, which acts through the leptin receptor, functions as part of a signaling pathway that can inhibit food intake and/or regulate energy expenditure to maintain constancy of the adipose mass. This protein also has several endocrine functions, and is involved in the regulation of immune and inflammatory responses, hematopoiesis, angiogenesis and wound healing. Mutations in this gene and/or its regulatory regions cause severe obesity, and morbid obesity with hypogonadism. This gene has also been linked to type 2 diabetes mellitus development.
Product Precision	Intra-assay Precision (Precision within an assay): CV%<8%



Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of horse LEP in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

	Sample	Serum(n=4)
1:100	Average %	99
	Range %	95-104
1:200	Average %	103
	Range %	98-109
1:400	Average %	89
	Range %	84-95
1:800	Average %	96
	Range %	91-101

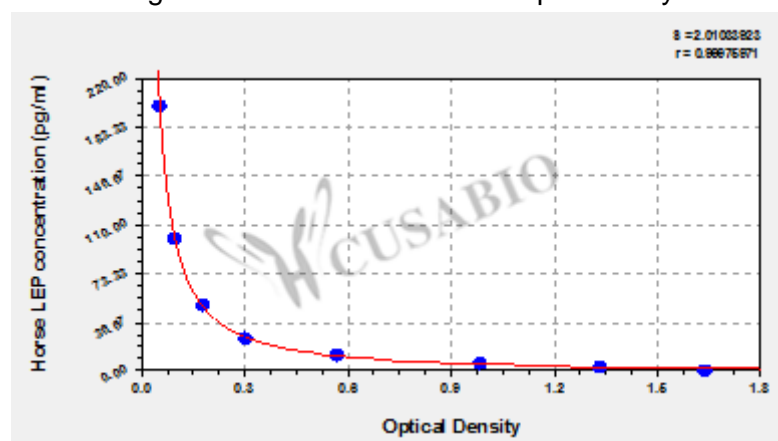
Recovery

The recovery of horse LEP spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	93	86-100
EDTA plasma (n=4)	104	100-108

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average
200	0.054	0.056	0.055
100	0.094	0.099	0.097
50	0.181	0.183	0.182
25	0.310	0.302	0.306
12.5	0.594	0.546	0.570
6.25	0.995	0.985	0.990
3.12	1.330	1.346	1.338
0	1.684	1.605	1.645