



Sheep Leptin(LEP) ELISA kit

Product Code	CSB-EL012870SH
Abbreviation	LEP
Target Name	leptin
Uniprot No.	Q28603
Alias	FLJ94114, OB, OBS, leptin (murine obesity homolog) leptin (obesity homolog, mouse) obese, mouse, homolog of obesity factor
Product Type	ELISA Kit
Immunogen Species	Ovis aries (Sheep)
Sample Types	serum, plasma, tissue homogenates
Detection Range	3.12 ng/mL-200 ng/mL
Sensitivity	0.78 ng/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	Sandwich

Description

This Sheep LEP ELISA Kit was designed for the quantitative measurement of Sheep LEP protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 3.12 ng/mL-200 ng/mL and the sensitivity is 0.78 ng/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 sheep 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)
1:1	Average %	90
	Range %	82-98
1:2	Average %	93
	Range %	86-100
1:4	Average %	95
	Range %	88-102
1:8	Average %	95
	Range %	90-100

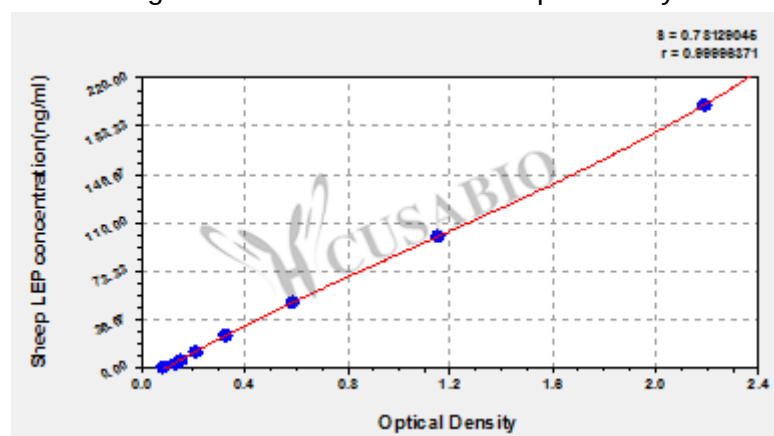
Recovery

The recovery of sheep 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)	92	88-96
EDTA plasma (n=4)	95	90-101

Typical

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



ng/ml	OD1	OD2	Average	Corrected
200	2.149	2.247	2.198	2.105
100	1.195	1.131	1.163	1.070
50	0.608	0.585	0.597	0.504
25	0.347	0.326	0.337	0.244
12.5	0.214	0.224	0.219	0.126
6.25	0.166	0.155	0.161	0.068
3.12	0.138	0.143	0.141	0.048
0	0.094	0.092	0.093	?

Msds

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