

ENERGY METABOLISM AND BODY WEIGHT REGULATION

Immunoassays



HUMAN LEPTIN ELISA, CLINICAL RANGE

Cat. No.: RD191001100

IVD CE

Intended use

The RD191001100 Human Leptin ELISA, Clinical Range is a sandwich enzyme immunoassay for the quantitative measurement of human leptin in serum and plasma.

- The total assay time is less than 2.5 hours
- The kit measures total leptin in serum and plasma (EDTA, citrate, heparin)
- Assay format is 96 wells
- Quality Controls are human serum based. No animal sera are used
- Standards are recombinant protein based
- Components of the kit are ready-to-use (with the exception of Wash Solution and Quality Controls)

Clinical application

- Energy metabolism and body weight regulation
- Reproduction
- Obesity

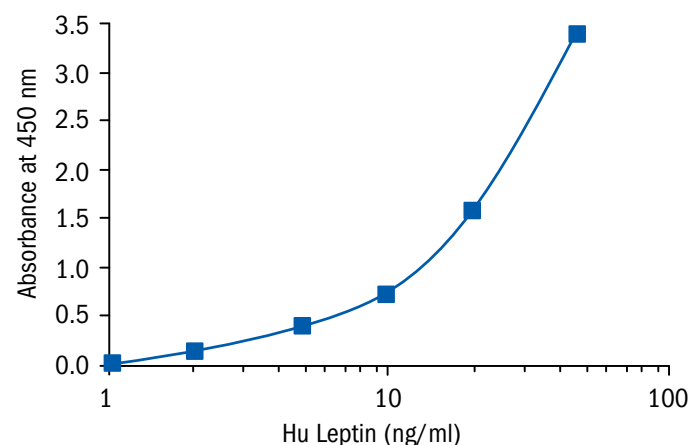
Test principle

In the BioVendor Human Leptin ELISA Clinical Range, Standards, Quality Controls and samples are incubated in microplate wells pre-coated with polyclonal anti-human leptin antibody. After 60 minutes incubation and washing, polyclonal anti-human leptin antibody, conjugated with horseradish peroxidase (HRP) is added to the wells and incubated for 60 minutes with captured leptin. Following another washing step, the remaining HRP conjugate is allowed to react with the Substrate

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Assay format	Sandwich ELISA, HRP-labelled antibody, 96 wells/kit
Samples	Serum, Plasma (EDTA, citrate, heparin)
Controls	QC-Low, QC-High
Standards	1 to 50 ng/ml
Limit of detection	0.2 ng/ml



Solution (TMB). The reaction is stopped by addition of acidic solution and absorbance of the resulting yellow product is measured. The absorbance is proportional to the concentration of leptin. A standard curve is constructed by plotting absorbance values against concentrations of Standards, and concentrations of unknown samples are determined using this standard curve.

Summary of protocol

- Reconstitute QCs and Master Standard and prepare set of Standards
- Dilute samples 3x
- Add 100 µl Standards, QCs and samples
- Incubate at RT for 1 hour/300 rpm
- Wash plate 3 times
- Add 100 µl Conjugate Solution
- Incubate at RT for 1 hour/300 rpm
- Wash plate 3 times
- Add 100 µl Substrate Solution
- Incubate at RT for 10 min
- Add 100 µl stop solution
- Read absorbance and calculate results

Related products

- Leptin Human E. coli Tagless RD172001100
- Leptin Human, Mouse Monoclonal Antibody, Clone: LEP-02 RD182001210-02
- Leptin Human, Rabbit Polyclonal Antibody RD181001220

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