

ENERGY METABOLISM AND BODY WEIGHT REGULATION

Immunoassays



HUMAN LEPTIN RECEPTOR ELISA

Cat. No.: RD194002100

RUO

Intended use

The RD194002100 Human Leptin Receptor ELISA is a sandwich enzyme immunoassay for the quantitative measurement of human leptin receptor.

- The total assay time is less than 2.5 hours
- The kit measures leptin receptor in serum, plasma (EDTA, heparin)
- Assay format is 96 wells
- Quality Controls are human serum based.
- Standard is recombinant protein based
- Components of the kit are provided ready to use, concentrated or lyophilized

Clinical application

- Energy metabolism and body weight regulation

Test principle

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

allowed to react with the substrate 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 receptor. A standard curve is constructed by plotting absorbance values against concentrations of Standards, and concentrations of unknown samples are determined using this standard curve.

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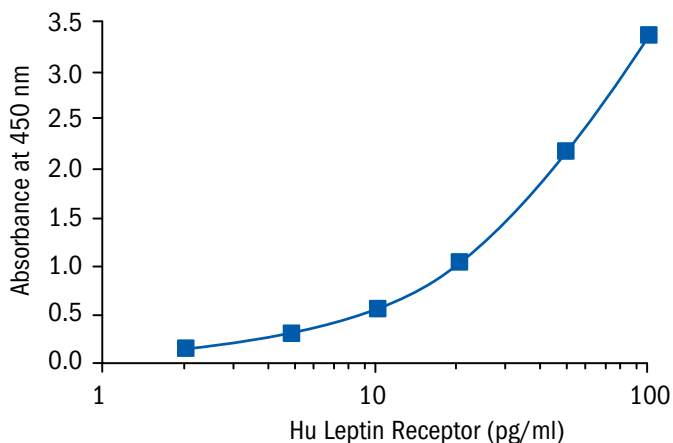
Assay format	Sandwich ELISA, HRP-labelled antibody, 96 wells/kit
Samples	Serum, Plasma (EDTA, heparin)
Controls	QC-Low, QC-High
Standards	2 to 100 ng/ml
Limit of detection	0.04 ng/ml

Summary of protocol

- Reconstitute QCs
- Dilute QCs, Standards and Samples 3×
- Add 100 µl Standards, QCs and Samples
- Incubate at RT for 1 hour/300 rpm
- Wash plate 5 times
- Add 100 µl Conjugate Solution
- Incubate at RT for 1 hour/300 rpm
- Wash plate 5 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 Receptor Human, Mouse Monoclonal Antibody, Clone: LPR-01 RD182002110-01
- Leptin Receptor Human, Mouse Monoclonal Antibody, Clone: LPR-02 RD182002110-02



Date of issue September 2013



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