

Mouse Leptin ELISA Kit | Leptin elisa kit

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CATALOG #
AAA17413

REACTIVITY
Mouse

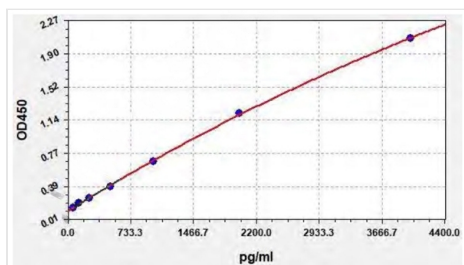
PRODUCT SYNONYMS

Leptin; Mouse Leptin ELISA Kit; Leptin/LEP/LEPD/OBS/Obesity Homolog; Leptin elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Specifically recognize Leptin, no obvious cross reaction with other analogues
Sequence Length	167
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	62.5-4000pg/ml
Sensitivity	37.5pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Leptin elisa kit	Background: Leptin is a hormone secreted by adipose tissue. Its main function is to regulate body weight and energy balance by affecting appetite and metabolic rate. Leptin acts through receptors in areas such as the hypothalamus and abdomen. The level of leptin usually increases with an increase in body fat, and is also influenced by many other factors, such as diet, exercise, physiology, and disease. Research has shown that both high and low levels of leptin may be associated with weight and energy balance-related issues, such as obesity and metabolic syndrome. Leptin is also related to many other physiological processes, such as immune function, reproductive function, and bone formation. Understanding the role and regulatory mechanisms of leptin is important for understanding the mechanisms of weight regulation, metabolic diseases, and other related diseases. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti Leptin antibody was precoated onto the 96-well plate. The biotin conjugated anti Leptin antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with Leptin conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of Leptin in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4557715
NCBI GeneID	3952
NCBI Accession #	NP_000221.1
NCBI GenBank Nucleotide #	NM_000230.2
NCBI Official Full Name	leptin

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/leptin/17413>