

Human Leptin ELISA Kit | LEP elisa kit

Leptin Human ELISA Kit

CATALOG # AAA13511	REACTIVITY Human	APPLICATIONS ELISA
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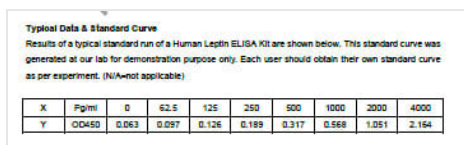
PRODUCT SYNONYMS

Leptin; Leptin Human ELISA Kit; Human Leptin; LEP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Rat Serum, Plasma, Body Fluids, Tissue Lysates Or Cell Culture Supernates
Assay Type	Sandwich
Detection Range	0 uIU/ml-140 uIU/ml
Sensitivity	< 5 uIU/ml
Applicable Applications for LEP elisa kit	ELISA
Application Notes	For quantitative detection of Leptin in human serum, plasma, body fluids, tissue lysates or cell culture supernates.
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LEP elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Insulin monoclonal antibody was pre-coated onto 96-well plates. And the HRP conjugated anti-Insulin polyclonal antibody was used as detection antibodies. The standards, test samples and HRP conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Insulin amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Insulin can be calculated!!

Background/Introduction: Insulin, synthesized by the beta cells of the islets of Langerhans, consists of 2 dissimilar polypeptide chains, A and B, which are linked by 2 disulfide bonds. The human insulin gene contains 3 exons; exon 2 encodes the signal peptide, the B chain, and part of the C peptide, while exon 3 encodes the remainder of the C peptide and the A chain. Insulin has a potent acute antiinflammatory effect, including a reduction in intranuclear NF-kappa-B, an increase in IKB, and decreases in the generation of reactive oxygen species. It causes cells in the liver, muscle, and fat tissue to take up glucose from the blood, storing it as glycogen inside these tissues, and improved insulin-stimulated glucose uptake after endurance training results from hemodynamic adaptations as well as increased cellular protein content of individual insulin signaling components and molecules involved in glucose transport and metabolism.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557715
NCBI GeneID	3952
NCBI Accession #	NP_000221.1
NCBI GenBank Nucleotide #	NM_000230.2
UniProt Accession #	P41159; O15158; Q56A88
Molecular Weight	18,641 Da
NCBI Official Full Name	leptin
NCBI Official Synonym Full Names	leptin
NCBI Official Symbol	LEP
NCBI Official Synonym Symbols	OB; OBS; LEPD
NCBI Protein Information	leptin; obese protein; obesity factor; obese, mouse, homolog of; leptin (murine obesity homolog); leptin (obesity homolog, mouse)
UniProt Protein Name	Leptin
UniProt Gene Name	LEP
UniProt Synonym Gene Names	OB; OBS
UniProt Entry Name	LEP_HUMAN

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/human-elisa-kits/leptin/13511>