

Human Leptin ELISA Kit | LEP elisa kit

Human Leptin ELISA Kit

CATALOG # AAA106001	REACTIVITY Human	APPLICATIONS ELISA
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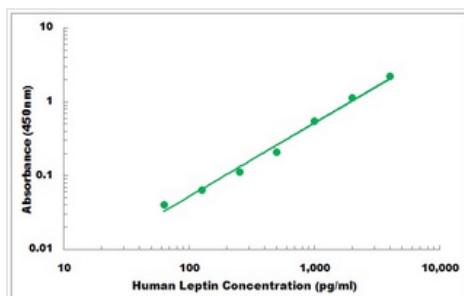
PRODUCT SYNONYMS

Leptin; Human Leptin ELISA Kit; OB; OBS; Obese protein; Obesity factor; LEP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Human Leptin ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human Leptin proteins within the range of 62.5 pg/ml - 4000 pg/ml.
Sequence Length	167
Samples	Cell Culture Supernatants, Serum, Plasma, Tissue Homogenates
Sensitivity	The minimum detectable dose of Human Leptin is typically less than 10 pg/ml.
Applicable Applications for LEP elisa kit	ELISA (Sandwich ELISA)
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LEP elisa kit	Principle of the assay: The Human Leptin ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human Leptin in Cell Culture Supernatants, Serum, Plasma, Tissue Homogenates. This assay employs an antibody specific for Human Leptin coated on a 96-well plate. Standards and samples are pipetted into the wells and Leptin present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human Leptin antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of Leptin bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background: Leptin (or obese, OB) is a circulating hormone that is expressed abundantly and specifically in the adipose tissue. Human ob protein is a 166-amino acid polypeptide with a putative signal sequence and is 84 and 83% homologous to the mouse and rat ob proteins, respectively. Northern blot analysis reveals that OB RNA is present at a high level in adipose tissue but at much lower levels in placenta and heart. Indeed, Leptin is first described as an adipocyte-derived signalling factor, which, after interaction with its receptors, induces a complex response including control of bodyweight and energy expenditure. Leptin seems in addition to its role in metabolic control to have important roles in reproduction and neuroendocrine signalling. Leptin is a powerful inhibitor of bone formation in vivo. Comparative mapping of mouse and human DNA indicates that the ob gene is located within a region of mouse chromosome 6 that is homologous to a portion of human chromosome 7q.
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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
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://www.aaabiotech.com/lep-human-elisa-kits/leptin/106001>