

Chicken leptin ELISA Kit | LEP elisa kit

Chicken Leptin, LEP ELISA Kit

CATALOG #
AAA79904

REACTIVITY
Chicken

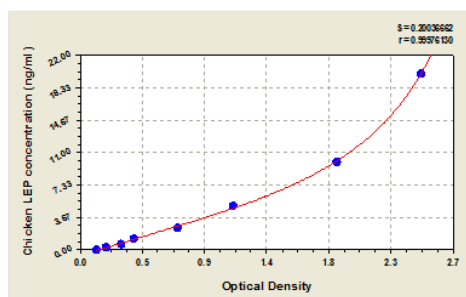
PRODUCT SYNONYMS

leptin; Chicken Leptin; LEP ELISA Kit; LEP ELISA kit; FLJ94114; OB; OBS; leptin (murine obesity homolog) ; leptin (obesity homolog; mouse) ; obese; mouse; homolog of; obesity factor; LEP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Chicken
Specificity	This assay has high sensitivity and excellent specificity for detection of Chicken LEP. No significant cross-reactivity or interference between Chicken LEP and analogues was observed.
Sequence Length	163
Samples	Serum, plasma and tissue homogenates
Detection Range	0.312 ng/ml-20 ng/ml
Sensitivity	0.078 ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LEP elisa kit

Introduction: Leptin is a 16 kDa protein hormone that plays a key role in regulating energy intake and energy expenditure, including appetite and metabolism. Leptin is one of the most important adipose derived hormones. The Ob(Lep) gene (Ob for obese, Lep for leptin) is located on chromosome 7 in humans. Leptin acts on receptors in the hypothalamus of the brain where it inhibits appetite by (1) counteracting the effects of neuropeptide Y (a potent feeding stimulant secreted by cells in the gut and in the hypothalamus); (2) counteracting the effects of anandamide (another potent feeding stimulant that binds to the same receptors as THC), and (3) promoting the synthesis of alpha-MSH, an appetite suppressant. This inhibition is long-term, in contrast to the rapid inhibition of eating by cholecystokinin (CCK) and the slower suppression of hunger between meals mediated by PYY3-36. The absence of leptin (or its receptor) leads to uncontrolled food intake and resulting obesity. Several studies have shown that fasting or following a very-low-calorie diet (VLCD) lowers leptin levels. It might be that, in the short-term, leptin is an indicator of energy balance. It might be that the dynamics of leptin due to an acute change in energy balance are related to appetite and eventually to food intake. Although this is a new hypothesis, there are already some data that support it.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to leptin. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for leptin and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain leptin, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of leptin in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	3024234
UniProt Accession #	O42164
Molecular Weight	18,183 Da
NCBI Official Full Name	Leptin
UniProt Protein Name	Leptin
UniProt Gene Name	LEP
UniProt Synonym Gene Names	OB
UniProt Entry Name	LEP_CHICK

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/lep-chicken-elisa-kits/leptin/79904>