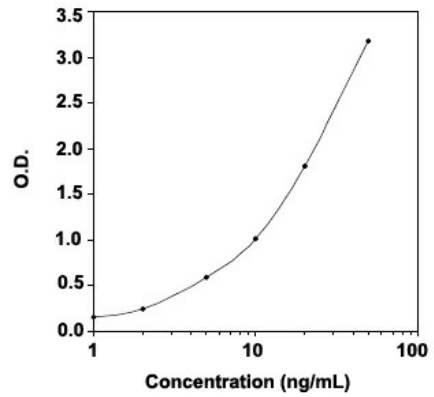
# LEP (Human) ELISA Kit

Catalog # KA0025 Size 1 Kit

## Applications




The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

## Specification

| | |
|---|---|
| **Product Description** | LEP (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human leptin in serum, plasma. |
| **Suitable Sample** | Plasma (Citrate, EDTA, Heparin), Serum |
| **Sample Volume** | 100 uL |
| **Label** | HRP-conjugate |
| **Detection Method** | Colorimetric |
| **Assay Type** | Quantitative |
| **Calibration Range** | 1 to 50 ng/mL |
| **Limit of Detection** | 0.2 ng/mL |
| **Reactivity** | Human |
| **Regulation Status** | For research use only (RUO) |

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| | |
|---|---|
| **Quality Control Testing** | Standard curve<br>The standard curve is for the purpose of illustration only and should not be used to calculate unknown s. A standard curve should be generated each time the assay is performed. |
| **Storage Instruction** | Store the kit at 4°C. |

## Applications

- Quantification

## Gene Info — LEP

| | |
|---|---|
| **Entrez GeneID** | 3952 |
| **Gene Name** | LEP |
| **Gene Alias** | FLJ94114, OB, OBS |
| **Gene Description** | leptin |
| **Omim ID** | 164160 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene encodes a protein that is secreted by white adipocytes, and which plays a major role in the regulation of body weight. This protein, which acts through the leptin receptor, functions as part of a signaling pathway that can inhibit food intake and/or regulate energy expenditure to maintain constancy of the adipose mass. This protein also has several endocrine functions, and is involved in the regulation of immune and inflammatory responses, hematopoiesis, angiogenesis and woun d healing. Mutations in this gene and/or its regulatory regions cause severe obesity, and morbid o besity with hypogonadism. This gene has also been linked to type 2 diabetes mellitus developme nt. [provided by RefSeq |
| **Other Designations** | leptin (murine obesity homolog)\|leptin (obesity homolog, mouse)\|obese, mouse, homolog of\|obesi ty factor |

## Publication Reference

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- Integrated Systems Biology Approach Identifies Novel Maternal and Placental Pathways of Preeclampsia.

  Nandor Gabor Than, Roberto Romero, Adi Laurentiu Tarca, Katalin Adrienna Kekesi, Yi Xu, Zhonghui Xu, Kata Juhasz, Gaurav Bhatti, Ron Joshua Leavitt, Zsolt Gelencser, Janos Palhalmi, Tzu Hung Chung, Balazs Andras Gyorffy, Laszlo Orosz, Amanda Demeter, Anett Szecsi, Eva Hunyadi-Gulyas, Zsuzsanna Darula, Attila Simor, Katalin Eder, Szilvia Szabo, Vanessa Topping, Haidy El-Azzamy, Christopher LaJeunesse, Andrea Balogh, Gabor Szalai, Susan Land, Olga Torok, Zhong Dong, Ilona Kovalszky, Andras Falus,

  Frontiers in Immunology 2018 Aug; 9:1661.

  Application: Quant, Human, Human plasma

- N-Acetylcysteine improves oocyte and embryo quality in polycystic ovary syndrome patients undergoing intracytoplasmic sperm injection: an alternative to metformin.

  Cheraghi E, Mehranjani MS, Shariatzadeh MA, Esfahani MH, Ebrahimi Z.

  Reproduction, Fertility, and Development 2016 Apr; 28(6):723.

  Application: ELISA, Human, Follicular fluid

- Co-Administration of Metformin and N-Acetyl Cysteine Fails to Improve Clinical Manifestations in PCOS Individual Undergoing ICSI.

  Cheraghi E, Soleimani Mehranjani M, Shariatzadeh MA, Nasr Esfahani MH, Ebrahimi Z.

  International Journal of Fertility & Sterility 2014 Jul; 8(2):119.

  Application: S-ELISA, Human, Serum

## Pathway

- Adipocytokine signaling pathway
- Cytokine-cytokine receptor interaction
- Jak-STAT signaling pathway
- Neuroactive ligand-receptor interaction

## Disease

- Adenocarcinoma
- Albuminuria
- Amyotrophic lateral sclerosis
- Anorexia Nervosa
- Anoxia

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- Asthma
- Atherosclerosis
- Attention Deficit Disorder with Hyperactivity
- Autistic Disorder
- Behcet Syndrome
- Birth Weight
- Body Weight
- Breast cancer
- Breast Neoplasms
- Bulimia
- Carcinoma
- Cardiovascular Diseases
- Chorioamnionitis
- Chronic Disease
- Colon cancer
- Colonic Neoplasms
- Colorectal Neoplasms
- Coronary Restenosis
- Cues
- Depressive Disorder
- Diabetes Mellitus
- Disease Models
- Disease Progression
- Diseases in Twins
- Dyslipidemias

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- Edema
- Endometrial Neoplasms
- Esophageal Neoplasms
- Fatty Liver
- Fetal Membranes
- Fetal Weight
- Genetic Predisposition to Disease
- HELLP Syndrome
- Hepatitis
- Hypertension
- Inflammation
- Insulin Resistance
- Kidney Diseases
- Kidney Failure
- Lung Neoplasms
- Lymphoma
- Mental Disorders
- Metabolic Syndrome X
- Microsatellite Instability
- Mouth Neoplasms
- Multiple Sclerosis
- NARP
- Neovascularization
- Obesity
- Obstetric Labor
- Osteoporosis

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- Ovarian Failure
- Polycystic Ovary Syndrome
- Pre-Eclampsia
- Pregnancy Complications
- Pregnancy in Diabetics
- Premature Birth
- Prostate cancer
- Prostatic Neoplasms
- Psoriasis
- Puberty
- Pulmonary Disease
- Satiety Response
- Schizophrenia
- Sleep Apnea
- Taste
- Thinness
- Thrombophilia
- Tobacco Use Disorder
- Urinary Bladder Neoplasms
- Uterine Neoplasms
- Weight Gain
- Weight Loss
- Werner syndrome

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