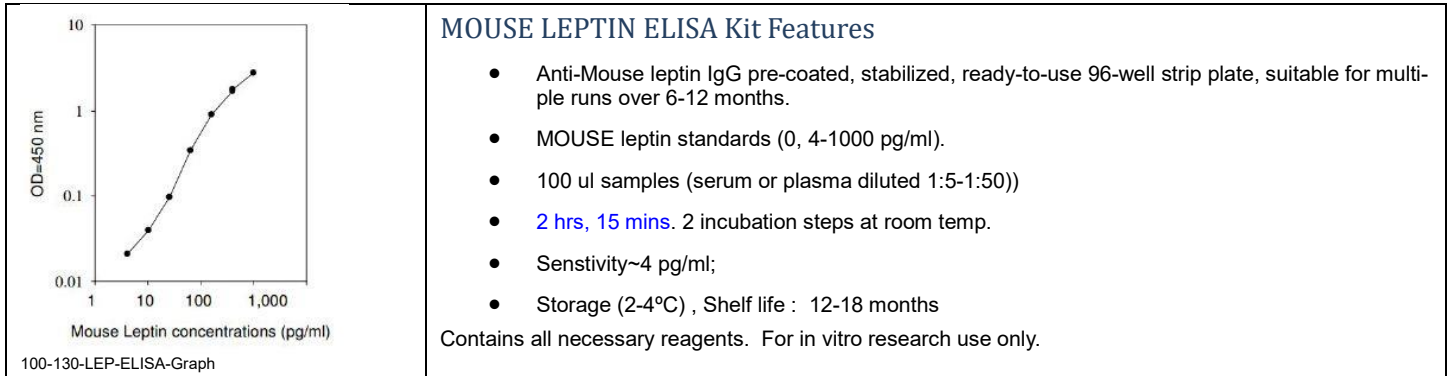


Mouse Leptin ELISA kit #100-130-LEP, 96 Tests

The Mouse Leptin ELISA Kit is an in vitro immunoassay for research use in the quantification of leptin in cultures of mouse cells and in appropriately qualified samples from serum, saliva, or other tissue fluids. For in vitro research use only (RUO), not for therapeutic or diagnostic use.

Assay Procedure: Arrange required number of strips on the plate.



- Step 1. Add **100 µl of standards** and samples (diluted 1:5-1:50 or higher) into respective wells. Mix gently and **incubate at room temp for 2.5 hrs at room temp** (25-28oC; no shaking necessary).
- Step 2. **Aspirate well contents and wash 3X** with wash buffer. Add **100 ul of supplied detection antibody** and incubate for **1 hr at room temp**.
- Step 3. **Aspirate well contents and wash 3X** with wash buffer. Add **100 ul of antibody-HRP conj** and incubate for **45 min at room temp**.
- Step 4. **Aspirate or wash 5x** with wash buffer. Tap plates over paper towels. Add **100 ul of TMB Substrate**. Mix gently and **Incubate for 30 min at RT**. **Blue color** develops in positive wells.
- Step 4. Add **100 ul of stop solution** into each well and mix gently (blue color turns yellow). **Measure yellow color at 450 nm**. Results are compared to controls and expressed as +ve and -ve.

Spiking & Recovery

Serum (82-102%) Plasma (84-104%) Culture medium (83-103%).

Linearity

Serum (83-103%) Plasma (83-103%) Culture medium (84-103%).

Intra-Assay CV% <10%

Inter-Assay CV% <12%

Specificity: No cross-reactivity with any of the cytokines tested: Mouse CD30, L CD30, T CD40, CRG-2, CTACK, CXCL16, Eotaxin , Eotaxin-2, Fas Ligand, Fractalkine, GCSF, GM-CFS, IGFBP-3, IGFBP-5, IGFBP-6, IL-1 alpha, IL-1 beta, IL-2, IL-3, IL-3 Rb, IL-4, IL-5, IL-6, IL-9, IL-10, IL-12 p40/p70, IL-12 p70, IL-13, IL-17, KC, Leptin R, LIX, L-Selectin, Lymphotactin, MCP-1, MCP-5, M-CSF, MIG, MIP-1 alpha, MIP-1 gamma, MIP-2, MIP-3 beta, MIP-3 alpha, PF-4, P-Selectin, RANTES, SCF, SDF- 1alpha, TARC, TCA-3, TECK, TIMP-1, TNF-alpha, TNF RI, TNF RII, TPO, VCAM-1, VEGF

Mouse Leptin –General Information

Obesity, a common nutritional disorder, is associated with diabetes, hypertension, hyperlipidemia, cancer and many other health related problems. At least five genes, Obese (ob), diabetes (db), fat (fat), agouti yellow (Ay), and tubby (tub) have been linked to obesity. Recently, Ob genes (mouse and human) have been cloned. Obese gene encodes an adipocyte-tissue derived secreted Ob protein/Leptin (167 amino acid, ~16 kDa) that controls body weight homeostasis. Exogenous administration of recombinant Ob protein can reduce food intake and body weight. However, Ob protein had no effect in db/db mice suggesting a defect in leptin signaling mechanism. Leptin exerts its effects by interacting with leptin receptors (obese receptors). The Ob-R has been shown to be a product of db gene that has long been thought to encode the receptor for a weight-controlling hormone. Purified leptin has low endotoxin level and shown to be biologically effective in reducing body weight, food consumption in ob/ob mice.

ADI's Leptin ELISA kit is a highly sensitive sandwich type assay for the measurement of leptin in serum. The assay can be adapted to measure mouse leptin in other biological fluids such as plasma, urine, culture medium etc

Related Items

0010	Human Leptin ELISA Kit, 96 tests, Quantitative, 96 tests, Quantitative
100-130-LEM	Mouse Leptin ELISA Kit, 96 tests, Quantitative
200-130-LER	Rat Leptin ELISA Kit
LEP11-A	Anti-Mouse Recomb. Leptin Protein IgG # 1, aff pure
LEP11-R-100	Mouse Recombinant Purified Leptin Protein
LEP11-S	Anti-Mouse Recomb. Leptin Protein antiserum # 1
LEP12-R-100	Human Recombinant (E.Coli) Purified Leptin Protein
LEP12-S	Anti-Human Recomb. Leptin Protein antiserum # 2
LEP13-M	Monoclonal Anti-Human Leptin Protein antibody # 3, ascites
LEP13-R-100	Rat Recombinant Purified Leptin Protein

100-130-LEP-Mouse-Leptin-ELISA-Flr 150902A

