

Product Specification Sheet

Rabbit Anti-Mouse Leptin Antibody

Cat # LEP11-S	Rabbit Anti-Mouse Leptin antiserum	SIZE: 100 ul
Cat # LEP11-A	Rabbit Anti-Mouse Leptin IgG aff pure	SIZE: 100 ug
Cat. # LEP11-C	Recombinant Mouse Leptin protein WB Positive Control,	SIZE: 100 ul

Human Leptin is an 167 Amino acid residue, ~16 kDa, adipocyte derived, secreted protein (1). Mouse Leptin was cloned, expressed in E. Coli and purified. The purity of Leptin is greater than 95% as determined by SDS-PAGE. The identity of protein has been confirmed by N-Terminal sequence analyses. Endotoxin level in the final preparation is less than 1 pg/μg of murine Leptin. Mouse leptin is about 85% homologous with human Leptin. Purified Mouse Leptin has been shown to be biologically active in reducing body weight, food consumption, and plasma glucose levels in ob/ob and NZO mice.

Source of Antigen and Antibody

Antigen	Purified, Mouse recombinant leptin
Ab Host/type	Rabbit, Polyclonal antiserum # LEP11-S and IgG purified over antigen-agarose column (#LEP11-A)
2-Ab	Cat # 20320, goat anti-rabbit IgG-HRP (AP, biotin, FITC conjugates also available).
-ve control IgG	Cat # 20009-1, Rabbit (non-immune) Serum IgG, purified, suitable for ELISA, Western, IHC as -ve control

Recombinant purified mouse Leptin (~16 kda) used as control. For Western blot +ve control (**Cat # LEP11-C**) is supplied in SDS-PAGE sample buffer (reduced). Load 10 ul/lane of **LEP11-C** for good visibility with antibody Cat # **LEP11-S**. Store at -20oC in suitable size aliquots. SDS may crystallize in cold conditions. It should redissolve by warming before taking it from the stock. It should be heated once prior to loading on gels. If the product has been stored for several weeks, then it may be preferable to add 5 ul of fresh 2x sample buffer per 10 ul of the **LEP11-C** solution prior to heating and loading on gels. This preparation is not biologically active. It is not suitable for ELISA or other applications where native protein is required. Do not freeze, thaw, or heat repeatedly

Form & Storage of Antibodies/Peptide Control

Antiserum (unpurified)
100ul solution lyophilized powder
Supplied 0.05% azide, **Reconstitute** powder in 100 ul PBS

Affinity pure IgG
100 ug/100ul solution lyophilized powder
Supplied in **Buffer:** PBS+0.1% BSA
Reconstitute powder in PBS at 1mg/ml

Storage

Short-term: unopened, undiluted liquid vials at -20oC and powder at 4oC or -20oC..

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Shipping: 4oC for solutions and room temp for powder

Recommended Usage

Western Blotting (1:1K-5K using neat serum) with Chemiluminescence technique. The obese protein is predicted to be secretory protein with a molecular weight of ~ 16 kDa (refs. 1, 2).

ELISA (1:10-50K; 10-100 ng of Leptin protein/well).

Species Crossreactivity

Leptin is very conserved in various species. Antibodies made to whole Mouse leptin protein crossreacts with rat and human. Antibody crossreactivity in all species not tested.

General References:

1. Zhang, Y et al (1994) Nature 372, 425-431.

This product is for In vitro research use only.

Related material available from ADI

Human, mouse, rat Leptin ELISA kits

Mouse Recombinant Leptin (Obese Protein)
Rabbit Anti-Mouse Leptin Protein (recombinant)

Obese Protein Peptides Antibodies (AbOb1 and AbOb2)
and Control Peptides (Ob1-P and Ob2-P)

Leptin-Sepharose for isolation Leptin interacting proteins.

Mouse Obese receptor peptide antibodies (AbOBR1, -2, -3) for short and long forms, Control Peptides

Antibodies to UCPs, **Mahogany**, Beta-3-AR, Agouti, **Orexins**, CART, Melanocortin Receptors, Bombesin R,

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