

## Product Specification Sheet

### Mouse Monoclonal Anti-Human Leptin Antibody

<b>Cat # LEP13-M</b>	Mouse Monoclonal Anti-Human Leptin	<b>SIZE:</b> 100 ul ascites
<b>Cat. # LEP12-C</b>	Human Leptin protein WB +ve control	<b>SIZE:</b> 100 ul

Human Leptin is an 167 Amino acid residue, ~16 kDa, adipocyte derived, secreted protein (1). Human 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 human 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

<b>Antigen</b>	Purified, human recombinant leptin (#LEP12-R)
<b>Ab Host/type</b>	Mouse, monoclonal, IgM, purified, supplied in PBS, ( <b>Cat #LEP13-M</b> )
<b>2-Ab</b>	<b>Goat Anti-mouse IgM-HRP conjugate</b> Cat # 40220 (AP, biotin, FITC conjugates also available)
<b>-ve control</b>	Cat # 20008-2, Mouse (non-immune) Serum IgM, purified, suitable for ELISA, Western, IHC as -ve control

Human leptin protein for Western blot +ve control (**Cat # LEP12-C**) is supplied in SDS-PAGE sample buffer (reduced). Load 10 ul/lane of **LEP12-C** for good visibility with antibody Cat # **LEP12-S** or **LEP13-M**. 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 **LEP12-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. This preparation is intended for qualitative purpose and not to serve as standard of known concentration. Do not freeze, thaw, or heat repeatedly

#### Form & Storage of Antibodies/Peptide Control

##### Affinity pure

100 ug/100ul solution lyophilized powder  
Supplied in **Buffer:** PBS

**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). Since the isotype of this antibody is IgM, we recommend using anti-mouse IgG (H+L) or anti-mouse IgM specific antibodies and HRP conjugates.

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

#### Species Crossreactivity

Mouse anti-human leptin reacts specifically with human. Weak crossreactivity may be seen with mouse/rat leptin. ADI has also made polyclonal anti-mouse (Cat # **LEP11-S**) and anti-human leptin (Cat # **LEP12-S**). Antibody cross-reactivity in various species has not been studied.

#### General References:

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

*This product is for In vitro research use only. NOT FOR DRUG USE.*

#### Related material available from ADI

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

Mouse, Human Leptin ELISA kits, Adiponectin, Resistin ELISA Kits

LEP13-M

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