

## Product datasheet for **AM01365PU-N**

### Leptin (LEP) Mouse Monoclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	<b>ELISA:</b> In a sandwich ELISA (assuming 100µl/well), a concentration of 2.0-4.0 µg/ml of this antibody will detect recombinant human Leptin when used with Biotin conjugated anti-Human Leptin antibody (cat. PP1041B) as the detection antibody at a concentration of approximately 0.5-1.0 µg/ml. <b>Western Blot:</b> To detect hLeptin by Western Blot analysis this antibody can be used at a concentration of 0.20-0.40 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant hLeptin is 2.0-4.0 ng/lane, under non-reducing conditions.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Highly pure (>98%) recombinant Human Leptin
Specificity:	This antibody detects Leptin.
Formulation:	PBS without preservatives State: Azide Free State: Lyophilized (sterile filtered) purified IgG fraction
Reconstitution Method:	Restore in sterile water to a concentration of 1.0 mg/ml.
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	The lyophilized antibody is stable at room temperature for one month or at -20°C for longer. Following reconstitution it is stable at 2-8°C for six weeks. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	leptin
Database Link:	<a href="#">Entrez Gene 3952 Human P41159</a>



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**Background:**

Leptin plays a critical role in the regulation of body weight by inhibiting food intake and stimulating energy expenditure. Defects in Leptin production cause severe hereditary obesity in rodents and humans. In addition to its effects on body weight, leptin has a variety of other functions, including the regulation of hematopoiesis, angiogenesis, wound healing, and the immune and inflammatory response. The Leptin gene is the human homolog of the gene (ob) mutant in the mouse 'obese' phenotype. Defects in the Leptin gene are the cause of profound obesity and type II diabetes.

**Synonyms:**

LEP, OB, OBS, Obesity factor, Obese protein