

## Product datasheet for DP2001

### Lep Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	ELISA. Western Blot.
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The immunization antigen (16 kDa) is a protein containing 146 amino acid residues of the mouse Leptin and 23 additional amino acid residues - (underlined).
Specificity:	The antibody was raised in rabbits by immunization with the recombinant Leptin.
Formulation:	0.05 M phosphate buffer, 0.1 M NaCl, pH 7.2. AZIDE FREE State: Aff - Purified State: Lyophilized purified IgG
Reconstitution Method:	Restore with 0.1 ml of deionized water
Concentration:	lot specific
Purification:	Immunoaffinity chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized (preferably in a desiccator) at -20°C and in aliquots at -80°C. Reconstituted antibody can be stored at 4°C for a limited period of time; it does not show decline in activity after two weeks at 4°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	leptin
Database Link:	<a href="#">Entrez Gene 16846 Mouse P41160</a>



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**Background:**

Leptin, the product of the ob (obese) gene, is a single-chain 16 kDa proteohormone consisting of 146 amino acid residues. Leptin is produced by differentiated adipocytes, although production have been demonstrated in other tissues, such as fundus of the stomach, the skeletal muscle, the liver, and the placenta. Leptin is considered to play an important role in appetite control, fat metabolism and body weight regulation. It targets the central nervous system, in particular the hypothalamus, suppressing food intake and stimulating energy expenditure. In humans, leptin levels correlate with body mass index (BMI) and percentage body fat, and are elevated even in obese individuals. Leptin has a dual action; it decreases the appetite and increases energy consumption, causing more fat to be burned.

**Synonyms:**

LEP, OB, OBS, Obesity factor, Obese protein