



# Anti-Rat Leptin

20150223ML



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>104-P29G</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** Produced from sera of goats pre-immunized with highly pure (>98%) recombinant Rat Leptin. Anti-Rat Leptin specific antibody was purified by affinity chromatography employing immobilized Rat Leptin matrix.

## Target Background

<b>Synonyms (Target):</b>	Lep; ob; obese
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Encoded by the ob (obese) gene, Leptin is an adipose-derived cytokine that suppresses appetite and increases thermogenesis. Leptin exerts its anorectic effect via signaling through a hypothalamic receptor termed OB-R. Leptin has been shown to reduce body weight, food consumption, and plasma glucose levels in various in vivo models. Recombinant Rat Leptin is a 16.2 kDa protein containing 147 amino acid residues.

### Database References Target

<b>Protein RefSeq:</b>	NP_037208
<b>Uniprot ID:</b>	P50596
<b>mRNA RefSeq:</b>	NM_013076

## Product Specifications

<b>Species reactivity</b>	Rat
<b>Clone/Ab feature</b>	Goat IgG
<b>Cross reactivity</b>	Rat
<b>Host</b>	Goat
<b>Clonality</b>	Polyclonal Antibody
<b>Purification</b>	Antigen-affinity purified
<b>Immunogen</b>	Recombinant Rat Leptin
<b>Formulation</b>	lyophilized from PBS
<b>Reconstitution buffer</b>	water

**Reconstitution:** Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

**Stability:** The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

## Applications

### ELISA:

**Indirect:** To detect Rat Leptin by indirect ELISA (using 100 µl/well antibody solution) a concentration of 0.5 - 2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of at least 0.2 - 0.4 ng/well of recombinant Rat Leptin.

**Sandwich:** To detect Rat Leptin by sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5 - 2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of at least 0.2 - 0.4 ng/well of recombinant Rat Leptin.

**Western Blot:** To detect Rat Leptin by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant Rat Leptin is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**