



20150223ML

ReliaTech GmbH

Specification/Data Sheet

Anti-Rat Leptin



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.: **104-P29G**

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

Synonyms (Target): Lep; ob; obese

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

Protein RefSeq:	NP_037208
Uniprot ID:	P50596
mRNA RefSeq:	NM_013076

Product Specifications

Species reactivity	Rat
Clone/Ab feature	Goat IgG
Cross reactivity	Rat
Host	Goat
Clonality	Polyclonal Antibody
Purification	Antigen-affinity purified
Immunogen	Recombinant Rat Leptin
Formulation	Lyophilized from PBS
Reconstitution buffer	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!