

Code No. 18546

**Anti-Rat  
Leptin (C) Rabbit IgG Affinity Purify**Volume : 100  $\mu$ g

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**Introduction** : The recessive obesity mutation, ob, identified in 1950, results in profound obesity and type II diabetes as part of a syndrome that resembles morbid obesity in humans. Freidman's group at Rockefeller University originally identified the obesity gene that encodes for Leptin in 1994. Leptin is a 16 KDa secreted protein produced by the ob gene. Adipose tissue produces Leptin and releases it into the bloodstream. As fat deposits grow, blood Leptin levels tends to increase. It has been suggested that Leptin acts as a lipostat, increasing as fat gets deposited into adipocytes. It is also found that the protein acts as a hormone instructing the brain to stop food consumption and to increase activity. The protein has also been shown to signal and probably control the onset of puberty. In addition, recent study shows Leptin acts as a potent inhibitor of bone formation through central nervous system.

**Antigen** : Synthetic peptide in portion of C-terminus of Rat Leptin

**Purification** : Purified with antigen peptide

**Form** : Lyophilized product from 1% BSA in PBS containing 0.05% NaN<sub>3</sub>

**How to use** : 1.0 ml distilled water will be added to the product

**Dilution** : PBS (pH7.4) containing 1% BSA

**Stability** : Lyophilized product, 5 years at 2 – 8 °C  
: Solution, 2 years at –20 °C

**Application** : This antibody can be used for western blotting in concentration of 1~5  $\mu$ g/ml.

**Specificity** : Cross-reacts with Mouse