

## Anti-Leptin Antibody Picoband®

Catalog Number: PB9658

### About Lep

Leptin is a protein product of the mouse obese gene. Mice with mutations in the obese gene that block the synthesis of Leptin have been found to be obese and diabetic and to have reduced activity, metabolism and body temperature. cDNA clones encoding Leptin have been isolated from human, simian, mouse, and rat cells. The expression of Leptin mRNA has been shown to be restricted to adipose tissue. Although regulation of fat stores is deemed to be the primary function of leptin, it also plays a role in other physiological processes, as evidenced by its multiple sites of synthesis other than fat cells, and the multiple cell types beside hypothalamic cells that have leptin receptors. Many of these additional functions are yet to be defined.

### Overview

Product Name	Anti-Leptin Antibody Picoband®
Reactive Species	Mouse
Description	Boster Bio <a href="#">Anti-Leptin Antibody</a> Picoband® catalog # PB9658. Tested in ELISA, WB applications. This antibody reacts with Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , and 0.05 mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P41160

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of mouse Leptin, different from the related human sequence by five amino acids, and from the related rat sequence by two amino acids.
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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	ELISA, 0.1-0.5ug/ml, - Western blot, 0.1-0.5ug/ml, Mouse

## Anti-Leptin Antibody Picoband® (PB9658) Images



Western blot analysis of Leptin using anti-Leptin antibody (PB9658). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: NIH3T3 Whole Cell Lysate at 40ug. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Leptin antigen affinity purified polyclonal antibody (Catalog # PB9658) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Leptin at approximately 16 kDa. The expected band size for Leptin is at 16 kDa.

## 4 Publications Citing This Product

1. PubMed ID: 20307649, Cheng Ys, Dai Dz, Dai Y. *Reprod Toxicol.* 2010 Jul;29(4):421-6. Doi: 10.1016/J.Reprotox.2010.03.001. Epub 2010 Mar 20. Testis Dysfunction By Isoproterenol Is Mediated By Upregulating Endothelin Receptor A, Leptin And Protein Kinase C $\epsilon$  And ...
2. PubMed ID: 26077651, Qin Jh, Ma Jz, Yang Xw, Hu Yj, Zhou J, Fu Lc, Tian Rh, Liu S, Xu G, Shen Xi. *Nat Prod Bioprospect.* 2015 Jun;5(3):159-66. Doi: 10.1007/S13659-015-0063-5. Epub 2015 Jun 16. A Triterpenoid Inhibited Hormone-Induced Adipocyte Differentiation And Allev...
3. PubMed ID: 23588620, Yuan Y, Zhang J, Cai L, Ding C, Wang X, Chen H, Wang X, Yan J, Lu J. *Oncol Rep.* 2013 Jun;29(6):2291-6. Doi: 10.3892/Or.2013.2390. Epub 2013 Apr 8. Leptin Induces Cell Proliferation And Reduces Cell Apoptosis By Activating C-Myc In Cervical Cancer.

Visit [bosterbio.com/anti-leptin-picoband-trade-antibody-pb9658-boster.html](http://bosterbio.com/anti-leptin-picoband-trade-antibody-pb9658-boster.html) to see all 4 publications.

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### Anti-Leptin Antibody

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