

Anti-Leptin Receptor/LEPR Antibody Picoband™

Catalog Number: A00350

About LEPR

Leptin receptor, also known as LEP-R or OB-R is a protein that in humans is encoded by the LEPR gene. The protein encoded by this gene belongs to the gp130 family of cytokine receptors that are known to stimulate gene transcription via activation of cytosolic STAT proteins. This protein is a receptor for leptin (an adipocyte-specific hormone that regulates body weight), and is involved in the regulation of fat metabolism, as well as in a novel hematopoietic pathway that is required for normal lymphopoiesis. Mutations in this gene have been associated with obesity and pituitary dysfunction. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.

Overview

Product Name	Anti-Leptin Receptor/LEPR Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Leptin Receptor/LEPR Antibody Picoband™ catalog # A00350. Tested in ELISA, IHC applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IHC
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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	P48357

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Leptin Receptor, different from the related mouse sequence by nine amino acids, and from the related rat sequence by eight amino acids.
Predicted Reactive Species	Chicken
Recommended Detection Systems	Boster recommends HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
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	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Mouse, Rat, Human, By Heat ELISA , 0.1-0.5ug/ml, Human

Anti-Leptin Receptor/LEPR Antibody Picoband™ (A00350) Images

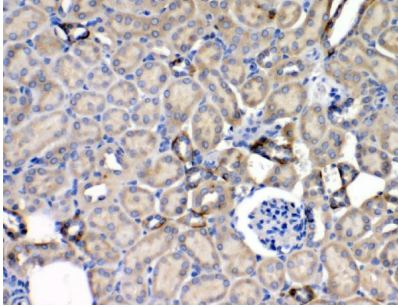


Figure 1. IHC analysis of Leptin Receptor/LEPR using anti-Leptin Receptor/LEPR antibody (A00350). Leptin Receptor/LEPR was detected in paraffin-embedded section of mouse kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Leptin Receptor/LEPR Antibody (A00350) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

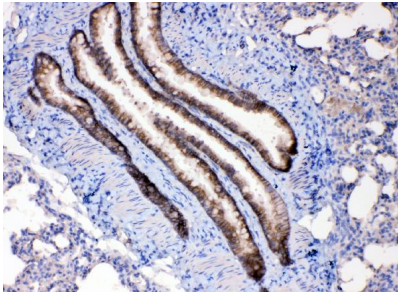


Figure 2. IHC analysis of Leptin Receptor/LEPR using anti-Leptin Receptor/LEPR antibody (A00350). Leptin Receptor/LEPR was detected in paraffin-embedded section of rat lung tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Leptin Receptor/LEPR Antibody (A00350) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

2 Publications Citing This Product

1. PubMed ID: -, Immunohistochemical Localization of Leptin and Leptin-Receptor Proteins in Different Tissues of Chinese Alligator, Alligator sinensis. HuaBin Zhang, YaSen Li, Tao Pan, Peng Yan, En Li, Hui Xue, XiaoBing Wu
2. PubMed ID: 26529315, The Influence of LepR Tyrosine Site Mutations on Mouse Ovary Development and Related Gene Expression Changes

Visit bosterbio.com/anti-leptin-receptor-antibody-a00350-boster.html to see all 2 publications.

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