

Anti-Prolactin/PRL Antibody Picoband™

Catalog Number: PB9411

About Prl

Prolactin (PRL) also known as luteotropic hormone (LTH) is a protein that in humans is encoded by the PRL gene. Prolactin is a peptide hormone discovered by Henry Friesen. Although it is perhaps best known for its role in lactation, prolactin already existed in the oldest known vertebrates-fishes-where its most important functions were probably related to control of water and salt balance. Prolactin also acts in a cytokine-like manner and as an important regulator of the immune system. Prolactin has important cell cycle related functions as a growth-, differentiating- and anti-apoptotic factor. As a growth factor binding to cytokine like receptors it has also profound influence on hematopoiesis, angiogenesis and is involved in the regulation of blood clotting through several pathways.

Overview

Product Name	Anti-Prolactin/PRL Antibody Picoband™
Reactive Species	Mouse
Description	Boster Bio Anti-Prolactin/PRL Antibody Picoband™ catalog # PB9411. Tested in ELISA, WB applications. This antibody reacts with Mouse.
Application	ELISA, WB
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	P06879

Technical Details

Immunogen	E. coli-derived mouse Prolactin recombinant protein (Position: L30-C226). Mouse Prolactin shares 59.8% and 84.8% amino acid (aa) sequence identity with human and rat Prolactin, respectively.
Predicted Reactive Species	Bovine
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	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: Western blot, 0.1-0.5ug/ml, Mouse , - ELISA , 0.1-0.5ug/ml, Mouse

Anti-Prolactin/PRL Antibody Picoband™ (PB9411) Images



Figure 1. Western blot analysis of Prolactin using anti-Prolactin antibody (PB9411). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: Recombinant Human Resistin Protein 0.5ng. 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-Prolactin antigen affinity purified polyclonal antibody (Catalog # PB9411) 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 Prolactin at approximately 10 kDa. The expected band size for Prolactin is at 10 kDa.

4 Publications Citing This Product

1. PubMed ID: -, Xianglong Meng,Chenzi Lyu,Junnan Ma,Xiaoyan Zhang,Cong Hu,Xiaojuan Su,Chenxu Ning,Wenbin Xie,Shuosheng Zhang,"Metabolomics and Network Pharmacology-Based Investigation into the Mechanisms Underlying the Therapeutic Effect of a New Chinese Traditional Medicine (Cui Nai Ling) on Bromocriptine-Induced Hypogalactia",Evidence-Based Complementary and Alternative Medicine,vol.2021,Article ID 8857449,17 pages,2021.<https://doi.org/10.1155/2021/8857449>
2. PubMed ID: 27827961, Positive Regulation of Decidualization by I-Type Amino Acid Transporter 1 (lat1) in Pregnant Mice
3. PubMed ID: 24133591, MAPK/ERK signal pathway involved expression of COX-2 and VEGF by IL-1? induced in human endometriosis stromal cells in vitro

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