BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Prolactin Receptor/PRLR Antibody Picoband®

Catalog Number: PA2087

About Prlr

PRLR (Prolactin Receptor), is a cytokine receptor. By somatic cell hybrid analysis and by in situ hybridization, Arden et al. (1989, 1990) demonstrated that the prolactin receptor gene resides in the same chromosomal region as the growth hormone receptor gene, which has been mapped to 5p13-p12. Cunningham et al. (1990) demonstrated that zinc greatly increases the affinity of GH for the extracellular binding domain of PRLR, although it is not required for binding of GH to the growth hormone receptor or for binding of prolactin to the prolactin receptor. By mutational analysis, they showed that a cluster of 3 residues (histidine-18, histidine-21, and glutamic acid-174) in GH and histidine-188 in PRLR (conserved in all PRL receptors but not GH receptors) are likely zinc-ion ligands.

Overview

Product Name	Anti-Prolactin Receptor/PRLR Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Prolactin Receptor/PRLR Antibody catalog # PA2087. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. 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	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *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	Q08501

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse PRLR, identical to the related rat sequence, and different from the related human sequence by three amino acids.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).

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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	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Rat, Mouse Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

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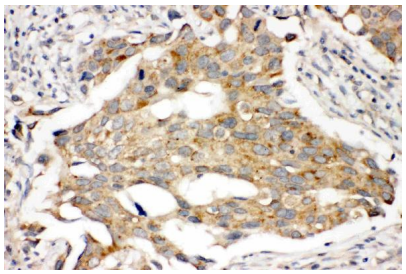
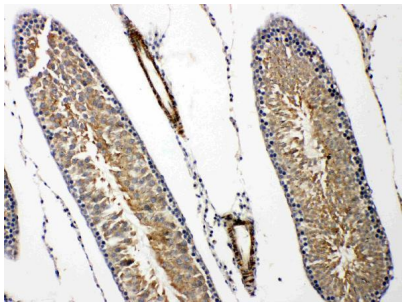
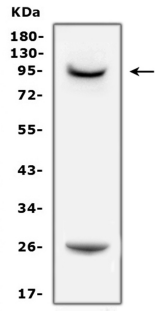
Anti-Prolactin Receptor/PRLR Antibody Picoband® (PA2087) Images



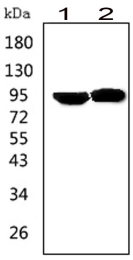
Anti-PRLR antibody, PA2087, IHC(P)IHC(P): Human Mammary Cancer Tissue



Anti-PRLR antibody, PA2087, IHC(P)IHC(P): Rat Testis Tissue



Western blot analysis of PRLR using anti-PRLR antibody (PA2087). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat PC-12 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-PRLR antigen affinity purified polyclonal antibody (Catalog # PA2087) 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 1:10000 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 PRLR at approximately 90KD. The expected band size for PRLR is at 70KD.



Western blot analysis of PRLR using anti-PRLR antibody (PA2087). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human MCF-7 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-PRLR antigen affinity purified polyclonal antibody (Catalog # PA2087) 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

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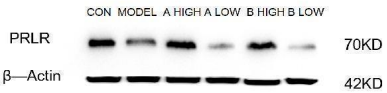
dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for PRLR at approximately 95KD. The expected band size for PRLR is at 70KD.



Western blot analysis of PRLR using anti-PRLR antibody (PA2087). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: control group-mouse brain tissue lysates, Lane 2: model group-mouse brain tissue lysates, Lane 3: high-dose A group-mouse brain tissue lysates, Lane 4: low-dose A group-mouse brain tissue lysates, Lane 5: high-dose B group-mouse brain tissue lysates, Lane 6: low-dose B group-mouse brain tissue lysates. 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-PRLR antigen affinity purified monoclonal antibody (Catalog # PA2087) at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a HRP Conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) (BA1054) at a dilution of 1:2000 for 1 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with ChemiDoc MP system. A specific band was detected for PRLR at approximately 70 kDa. The expected band size for PRLR is at 68 kDa.

1 Publications Citing This Product

1. PubMed ID: 28678802, miR-182 aids in receptive endometrium development in dairy goats by down-regulating PTN expression

Visit bosterbio.com/anti-prlr-antibody-pa2087-boster.html to see all 1 publications.

Anti-Prolactin Receptor/PRLR Antibody

For Research Use Only. Not for use in diagnostic procedures.