

Anti-Progesterone Receptor/PGR Antibody Picoband®

Catalog Number: PB9009

About PGR

The progesterone receptor (PR) is an intracellular steroid receptor that specially binds progesterone in humans. PR has been a member of the steroid receptor superfamily. It is encoded by a single PGR gene residing on chromosome 11q22. The PGR gene uses separate promoters and translational start sites to produce 2 isoforms, PRA and PRB, which are identical except for an additional 165 amino acids present only in the N terminus of PRB. It can be observed in human breast tissues. The proteins function as dimeric molecules in nuclei to regulate the transcription of target genes in a ligand-responsive manner.

Overview

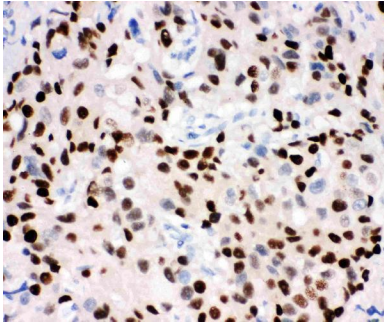
Product Name	Anti-Progesterone Receptor/PGR Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Progesterone Receptor/PGR Antibody Picoband® catalog # PB9009. Tested in IF, IHC, ICC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody 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	IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , and 0.05 mg Na ₃ N. *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	P06401

Technical Details

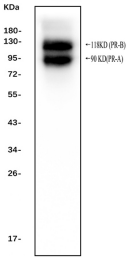
Immunogen	E.coli-derived human Progesterone Receptor recombinant protein (Position: M595-K933). Human Progesterone Receptor shares 95% and 94% amino acid (aa) sequences identity with mouse and rat Progesterone Receptor, respectively.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC.

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	Western blot, 0.1-0.5ug/ml, Human Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human Immunocytochemistry/Immunofluorescence, 5ug/ml, Human

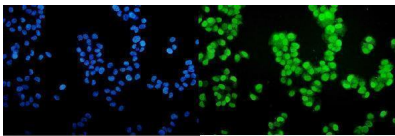
Anti-Progesterone Receptor/PGR Antibody Picoband® (PB9009) Images



IHC analysis of Progesterone Receptor using anti-Progesterone Receptor antibody (PB9009). Progesterone Receptor was detected in paraffin-embedded section of human mammary cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Progesterone Receptor Antibody (PB9009) 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.



Western blot analysis of Progesterone Receptor using anti-Progesterone Receptor antibody (PB9009). 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 T-47D 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-Progesterone Receptor antigen affinity purified polyclonal antibody (Catalog # PB9009) at 0.1 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 Progesterone Receptor at approximately 90 KD (PR-A), 118KD (PR-B). The expected band size for Progesterone Receptor is at 99KD.



IF analysis of Progesterone Receptor using anti-Progesterone Receptor antibody (PB9009). Progesterone Receptor was detected in immunocytochemical section of T-47D cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-Progesterone Receptor Antibody (PB9009) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

6 Publications Citing This Product

metastasis

2. PubMed ID: 10.2147/DDDT.S297236, Effect of Oral versus Vaginal Administration of Estradiol and Dydrogesterone on the Proliferative and Secretary Transformation of Endometrium in Patients with Premature Ovarian Failure and Preparing for Assisted Reproductive Technology

3. PubMed ID: 10.1007/s11596-011-0248-z, Impact of luteinized unruptured follicles on endometrial receptivity

Visit bosterbio.com/anti-progesterone-receptor-picoband-trade-antibody-pb9009-boster.html to see all 6 publications.

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