BOSTER BIOLOGICAL TECHNOLOGY
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Anti-GPCR GPR7/NPBWR1 Antibody Picoband®

Catalog Number: A08247-1

About NPBWR1

Neuropeptides B/W receptor 1, also known as NPBW1 and GPR7, is a human protein encoded by the NPBWR1 gene. In rodent models, NPBWR1 is over-expressed in Schwann cells associated with neuropathic pain, suggesting it inhibits inflammatory pain responses. Mice without NPBW1 exhibited a stronger hostile reaction to intruders, suggesting NPBW1 has a role in stress responses. Early studies indicated that NPB and NPW had a complex effect on appetite, but generally led to anorexia. Similarly, male rats lacking NPBWR1 exhibited hyperphagiaand adult-onset obesity, though why female rats are unaffected is unknown. Researchers speculated that activating these pathways might decrease obesity, and synthesized a small-molecule ligand that is capable of stimulating both receptors at low concentrations.

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Overview

Product Name	Anti-GPCR GPR7/NPBWR1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-GPCR GPR7/NPBWR1 Antibody Picoband® catalog # A08247-1. Tested in ELISA, 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	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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	P48145

Technical Details

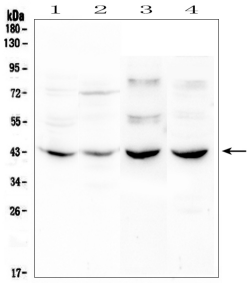
Immunogen	E.coli-derived human GPCR GPR7/NPBWR1 recombinant protein (Position: V58-A328).

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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	Western blot, 0.1-0.5ug/ml ELISA, 0.1-0.5ug/ml

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Anti-GPCR GPR7/NPBWR1 Antibody Picoband® (A08247-1) Images



Western blot analysis of NPBWR1 using anti-NPBWR1 antibody (A08247-1). 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 placenta tissues lysatesLane 2: human U-937 whole cell lysatesLane 3: rat heart tissue lysatesLane 4: mouse heart tissue 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-NPBWR1 antigen affinity purified polyclonal antibody (Catalog # A08247-1) 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 NPBWR1 at approximately 43KD. The expected band size for NPBWR1 is at 36KD.

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