

Basic Information

Product Name	Anti-NPBWR1 Antibody
Gene Name	NPBWR1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human GPCR GPR7/NPBWR1 recombinant protein (Position: V58-A328). Human NPBWR1 shares 90.4% and 90.7% amino acid (aa) sequence identity with mouse and rat NPBWR1, respectively.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	43 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Enzyme linked immunosorbent assay (ELISA):1:100-1000

Storage

12 months from date of receipt, -20°C as supplied.

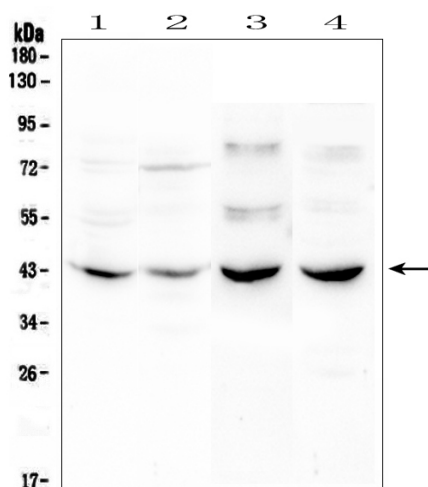
Background Information

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.[12] Similarly, male rats lacking NPBWR1 exhibited hyperphagia and 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.

Reference

Anti-NPBWR1 Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of NPBWR1 using anti-NPBWR1 antibody (A08247-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human placenta tissues lysates,

Lane 2: human U-937 whole cell lysates,

Lane 3: rat heart tissue lysates,

Lane 4: mouse heart tissue lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-NPBWR1 antigen affinity purified polyclonal antibody (A08247-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for NPBWR1 at approximately 43 kDa. The expected band size for NPBWR1 is at 36 kDa.