Datasheet for ABIN6719427

anti-NPBWR1 antibody (AA 58-328)

Go to Product page

Overview

Quantity:	100 µg
Target:	NPBWR1
Binding Specificity:	AA 58-328
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NPBWR1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-GPCR GPR7/NPBWR1 Antibody Picoband®
Immunogen:	E.coli-derived human GPCR GPR7/NPBWR1 recombinant protein (Position: V58-A328).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-GPCR GPR7/NPBWR1 Antibody Picoband® (ABIN6719427). 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.
Purification:	Immunogen affinity purified.

Target Details

Target:	NPBWR1
Alternative Name:	NPBWR1 (NPBWR1 Products)
Background:	Synonyms: Neuropeptides B/W receptor type 1, G-protein coupled receptor 7, NPBWR1, GPR7 Tissue Specificity: Found in cerebellum and frontal cortex. Detected at high levels in hippocampus, amygdala and trachea, at moderate levels in fetal brain, pituitary gland and prostate. Not in caudate, accumbens, kidney or liver. Also detected at high levels in lung carcinoma. Background: 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.
Molecular Weight:	43 kDa
Gene ID:	2831
UniProt:	P48145

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL ELISA, 0.1-0.5 µg/mL 1. Hondo M., Ishii M., Sakurai T. (2008). The NPB/NPW neuropeptide system and its role in regulating energy homeostasis, pain, and emotion. Results Probl. Cell Differ. 46, 239-256. 2. Nagata-Kuroiwa R., Furutani N., Hara J., Hondo M., Ishii M., Abe T., et al. (2011). Critical role of neuropeptides B/W receptor 1 signaling in social behavior and fear memory. PLoS ONE 6:e16972.
Comment:	Tested Species: In-house tested species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	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.