

Anti-NPFFR2 Antibody Picoband™

Catalog Number: A08389-2

About NPFFR2

Neuropeptide FF receptor 2, also known as NPFF2 is a human protein encoded by the NPFFR2 gene. This gene encodes a member of a subfamily of G-protein-coupled neuropeptide receptors. This protein is activated by the neuropeptides A-18-amide (NPAF) and F-8-amide (NPFF) and may function in pain modulation and regulation of the opioid system. Alternative splicing results in multiple transcript variants.

Overview

Product Name	Anti-NPFFR2 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-NPFFR2 Antibody Picoband™ catalog # A08389-2. Tested in ELISA, WB applications. This antibody reacts with Human.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	Q9Y5X5

Technical Details

Immunogen	E.coli-derived human NPFFR2 recombinant protein (Position: L14-E521).
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 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.25-0.5 µg/ml, Human

Direct ELISA, 0.1-0.5 µg/ml, Human

Anti-NPFFR2 Antibody Picoband™ (A08389-2) Images

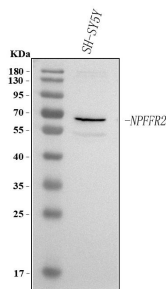


Figure 1. Western blot analysis of NPFFR2 using anti-NPFFR2 antibody (A08389-2).

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: human SH-SY5Y whole cell 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-NPFFR2 antigen affinity purified polyclonal antibody (Catalog # A08389-2) 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 1:5000 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 NPFFR2 at approximately 60 kDa. The expected band size for NPFFR2 is at 60 kDa.

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