BOSTER BIOLOGICAL TECHNOLOGY
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Anti-NPY2R Antibody Picoband®

Catalog Number: A04721-2

About NPY2R

Predicted to enable calcium channel regulator activity and neuropeptide Y receptor activity. Involved in cardiac left ventricle morphogenesis and outflow tract morphogenesis. Located in cilium. Implicated in Huntington's disease; morbid obesity; and obesity. Biomarker of peripheral artery disease and temporal lobe epilepsy.

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Overview

Product Name	Anti-NPY2R Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-NPY2R Antibody Picoband® catalog # A04721-2. Tested in WB, ICC/IF, ELISA 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	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
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	P49146

Technical Details

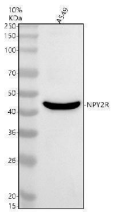
Immunogen	E.coli-derived human NPY2R recombinant protein (Position: M1-K367). Human NPY2R shares 94.8% amino acid (aa) sequence identity with mouse NPY2R.
Form	Lyophilized

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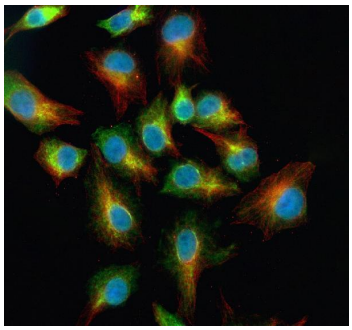
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human ELISA, 0.1-0.5 ug/ml

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Anti-NPY2R Antibody Picoband® (A04721-2) Images



Western blot analysis of NPY2R using anti-NPY2R antibody (A04721-2). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human A549 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-NPY2R antigen affinity purified polyclonal antibody (A04721-2) 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 ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for NPY2R at approximately 43 kDa. The expected band size for NPY2R is at 43 kDa.



IF analysis of NPY2R using anti-NPY2R antibody (A04721-2) and anti-Beta Tubulin antibody (M01857-3). NPY2R was detected in an immunocytochemical section of A549 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 5 ug/mL rabbit anti-NPY2R Antibody (A04721-2) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) and Cy3 Conjugated Goat Anti-Mouse IgG (BA1031) were used as secondary antibody at 1:500 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.

Anti-NPY2R Antibody

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