

Anti-Neuropeptide Y/NPY Antibody Picoband™

Catalog Number: PB9296

About NPY

This gene encodes a neuropeptide that is widely expressed in the central nervous system and influences many physiological processes, including cortical excitability, stress response, food intake, circadian rhythms, and cardiovascular function. The neuropeptide functions through G protein-coupled receptors to inhibit adenylyl cyclase, activate mitogen-activated protein kinase (MAPK), regulate intracellular calcium levels, and activate potassium channels. A polymorphism in this gene resulting in a change of leucine 7 to proline in the signal peptide is associated with elevated cholesterol levels, higher alcohol consumption, and may be a risk factor for various metabolic and cardiovascular diseases. The protein also exhibits antimicrobial activity against bacteria and fungi.

Overview

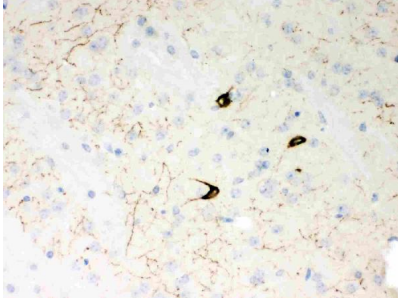
Product Name	Anti-Neuropeptide Y/NPY Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Neuropeptide Y/NPY Antibody Picoband™ catalog # PB9296. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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	P01303

Technical Details

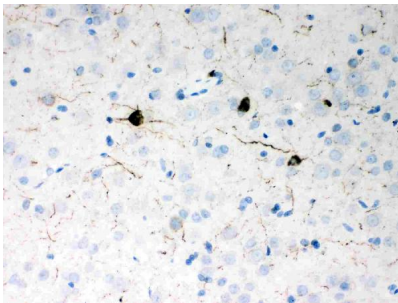
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Neuropeptide Y, identical to the related mouse and rat sequences.
Predicted Reactive Species	Chicken
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
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	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: Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Mouse, Rat, Human, By Heat Western blot, 0.1-0.5ug/ml, Human

Anti-Neuropeptide Y/NPY Antibody Picoband™ (PB9296) Images



Anti-Neuropeptide Y Picoband antibody, PB9296, IHC(P)
IHC(P): Mouse Brain Tissue



Anti-Neuropeptide Y Picoband antibody, PB9296, IHC(P)
IHC(P): Rat Brain Tissue



All lanes: Anti Neuropeptide Y (PB9296) at 0.5ug/ml
WB: Recombinant Human Neuropeptide Y Protein 0.5ng
Predicted bind size: 11KD
Observed bind size: 11KD

8 Publications Citing This Product

1. PubMed ID: 10.1016/j.ijcard.2004.12.065, Expression changes of thrombospondin-1 and neuropeptide Y in myocardium of STZ-induced rats
2. PubMed ID: 10.1016/j.ijcard.2017.08.011, Increased inflammation promotes ventricular arrhythmia through aggravating left stellate ganglion remodeling in a canine ischemia model
3. PubMed ID: 10.1111/are.12979, An immunohistochemical study on endocrine cells in the neuroendocrine system of the digestive tract of milkfish *Chanos chanos* (Forsskal, 1775)

Visit [bosterbio.com/anti-neuropeptide-y-picoband-trade-antibody-pb9296-boster.html](https://www.bosterbio.com/anti-neuropeptide-y-picoband-trade-antibody-pb9296-boster.html) to see all 8 publications.

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