

# Product Datasheet

## Neuropeptide Y Antibody NBP1-46535

Unit Size: 0.15 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Updated 10/23/2024 v.20.1

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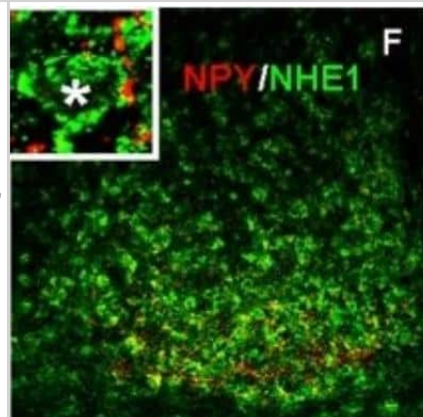
**NBP1-46535**

## Neuropeptide Y Antibody

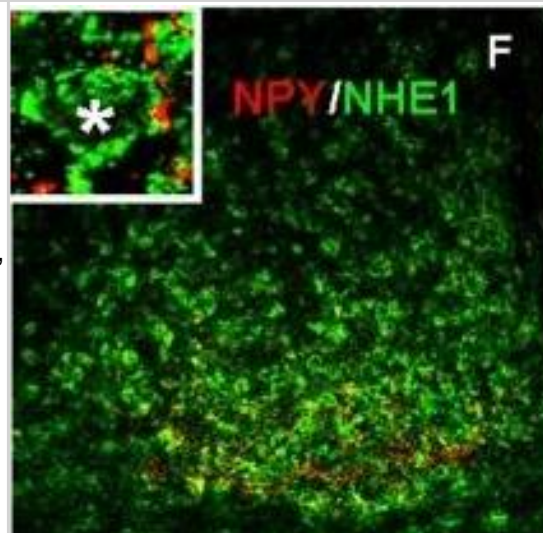
Product Information	
Unit Size	0.15 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Reconstitution Instructions	Reconstitute in 150 ul of sterile water. Centrifuge to remove any insoluble material. Glycerol may be added (1:1) for additional stability. Please note the sample size is provided in reconstituted format.
Isotype	IgG
Purity	Unpurified
Buffer	Lyophilized from whole antisera
Product Description	
Host	Goat
Gene ID	4852
Gene Symbol	NPY
Species	Human, Mouse, Rat, Rabbit, Xenopus
Immunogen	A synthetic peptide from amino acid region 20-70 of mouse Neuropeptide Y conjugated to an immunogenic carrier protein was used as the immunogen. The antigen is homologous in many other species including human, rat, zebrafish and xenopus.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunohistochemistry Free-Floating
Recommended Dilutions	Western Blot 1:300-1:3000, Immunohistochemistry 1:300-1:3000, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:300-1:3000, Immunohistochemistry-Frozen 1:300-1:3000, Immunohistochemistry Free-Floating
Application Notes	Use in ICC/IF reported in scientific literature (PMID: 27612517). Use in IHC-FrFI reported in scientific literature (PMID: 31609204).

## Images

Immunohistochemistry: Neuropeptide Y Antibody [NBP1-46535] - Low magnification images showing the double staining pattern of NHE1 with neuropeptide NPY. Scale bar: 100um. Insets: High magnification images showing individual cells with double staining. Scale bar: 10um. Asterisks mark Hoechst-stained nuclei. Image collected and cropped by CiteAb from the following publication ([nature.com/articles/s41598-019-42872-w](https://nature.com/articles/s41598-019-42872-w)), licensed under a CC-BY license.



Immunocytochemistry/ Immunofluorescence: Neuropeptide Y Antibody [NBP1-46535] - NHE1 distribution (A) & colocalisation with markers for specific cell types (B–D) & major inputs (E, F, G). (A) NHE1 immunoreactivity is distributed throughout the rostrocaudal axis of the SCN (encircled by the dotted lines). Scale bar: 200 µm. OC: optic chiasm. 3 V: third ventricle. (B–G1) Low magnification images showing the double staining pattern of NHE1 with neuropeptides NP2 (B), GRP (C), & VIP (D) as well as markers for afferent inputs vGluT2 (E), NPY (F), & SERT (G1). Scale bar: 100 µm. Insets: High magnification images showing individual cells with double staining. Scale bar: 10 µm. Asterisks mark Hoechst-stained nuclei. (G2) High magnification image showing high degree of colocalisation (yellow) between NHE1 (green) & SERT (red). Scale bar: 10 µm. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31015514>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Paolo Clavenzani, Giulia Lattanzio, Alessio Bonaldo, Luca Parma, Serena Busti, Åge Oterhals, Odd Helge Romarheim, Tone Aspevik, Pier Paolo Gatta, Maurizio Mazzoni, Artur Rombenso, Bruno Araújo, Erchao Li Effects of Bioactive Peptides from Atlantic Salmon Processing By-Products on Oxyntopeptic and Enteroendocrine Cells of the Gastric Mucosa of European Seabass and Gilthead Seabream Animals : an Open Access Journal from MDPI 2023-09-26 [PMID: 37835626]

Riga D, Rademakers K, Wolterink-Donselaar I, Meys F Neuropeptide Y neurons of the locus coeruleus inhibit noradrenergic system activity to reduce anxiety bioRxiv 2023-10-18 (IHC, Mouse)

Guo Q, Chen N, Patel K et al. Unloading-Induced Skeletal Interoception Alters Hypothalamic Signaling to Promote Bone Loss and Fat Metabolism Advanced science (Weinheim, Baden-Wurttemberg, Germany) 2023-10-25 [PMID: 37880864] (IHC-P, Mouse)

Details:

Dilution 1:100

Sharma S, Littman R, Tompkins JD et al. Tiered sympathetic control of cardiac function revealed by viral tracing and single cell transcriptome profiling eLife 2023-05-10 [PMID: 37162194]

S Sharma, R Littman, J Tompkins, D Arneson, J Contreras, AH Dajani, K Ang, A Tsanhani, X Sun, PY Jay, H Herzog, X Yang, OA Ajijola Tiered Sympathetic Control of Cardiac Function Revealed by Viral Tracing and Single Cell Transcriptome Profiling bioRxiv : the preprint server for biology, 2023-01-19;0(0):. 2023-01-19 [PMID: 36711942]

WANG S, LABIB Y, CONTRERAS J et al. COLOCALIZATION AND REMODELING OF HEART- AND LUNG-PROJECTING STELLATE GANGLION NEURONS IN BLEOMYCIN-INDUCED PULMONARY FIBROSIS Chest 2022-10-01 (IF/IHC, Mouse)

Mazzoni M, Zampiga M, Clavenzani P et al. Effect of chronic heat stress on gastrointestinal histology and expression of feed intake-regulatory hormones in broiler chickens Animal : an international journal of animal bioscience 2022-07-27 [PMID: 35907384]

Zhang T, Zuo G, Zhang H GPR18 Agonist Resolvin D2 Reduces the Early Brain Injury in A Rat Model of Subarachnoid Hemorrhage by Multi-Mechanisms of Protection Research Square 2021-04-09 [PMID: 34089427]

Shakya M, Shrestha PK, Briski KP et al. Hindbrain 5'-adenosine monophosphate-activated protein kinase Mediates Short-Term Food Deprivation Inhibition of the Gonadotropin-Releasing Hormone-Luteinizing Hormone Axis: Role of Nitric Oxide Neuroscience. 2018-05-06 [PMID: 29746990] (WB, Rat)

Christenson Wick Z, Tetzlaff MR, Krook-Magnuson E Novel long-range inhibitory nNOS-expressing hippocampal cells Elife 2019-10-14 [PMID: 31609204] (IHC-FrFl, Mouse)

Cheng, PC;Lin, HY;Chen, YS;Cheng, RC;Su, HC;Huang, RC; The Na<sup>+</sup>/H<sup>+</sup>-Exchanger NHE1 Regulates Extra- and Intracellular pH and Nimodipine-sensitive [Ca<sup>2+</sup>]<sub>i</sub> in the Suprachiasmatic Nucleus Sci Rep 2019-04-23 [PMID: 31015514] (ICC/IF, Rat)

Mandal SK, Briski KP. Hindbrain Dorsal Vagal Complex AMPK Controls Hypothalamic Gluco-regulatory Transmitter and Counter-Regulatory Hormone Responses to Hypoglycemia. Brain Res. Bull. 2018-11-24 [PMID: 30481553] (WB, Rat)

More publications at <http://www.novusbio.com/NBP1-46535>





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### **Products Related to NBP1-46535**

HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control
H00004852-P02-10ug	Recombinant Human Neuropeptide Y GST (N-Term) Protein

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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