10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Neuropeptide Y Picoband Antibody

Catalog # ABO11987

Product Information

Application	WB, IHC-P
Primary Accession	P01303
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Pro-neuropeptide Y(NPY) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	4852
Other Names	Pro-neuropeptide Y, Neuropeptide Y, Neuropeptide tyrosine, NPY, C-flanking peptide of NPY, CPON, NPY
Calculated MW	10851
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Mouse, Rat, Human, By Heat Western blot, 0.1-0.5 □g/ml, Human
Subcellular Localization	Secreted.
Tissue Specificity	One of the most abundant peptides in the nervous system. Also found in some chromaffin cells of the adrenal medulla.
Source	Eukaryota
Protein Name	Pro-neuropeptide Y
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Neuropeptide Y (29-64aa YPSKPDNPGEDAPAEDMARYYSALRHYINLITRQRY), identical to the related mouse and rat sequences.
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the NPY family.

Protein Information

Name	NPY {ECO:0000303|PubMed:2427515}
Function	[Neuropeptide Y]: Ligand for neuropeptide Y receptor type 1 (NPY1R) and neuropeptide Y receptor type 2 (NPY2R) (PubMed:1321422, PubMed:7592910, PubMed:35165283, PubMed:35507650, PubMed:36525977, PubMed:38882210). Receptor binding induces adenylate cyclase-inhibiting G protein-coupled receptor signaling, resulting in inhibition of cAMP production (PubMed:1321422, PubMed:7592910, PubMed:38882210). Receptor activation by NPY also leads to an increase of intracellular Ca(2+) levels (PubMed:1321422, PubMed:35165283, PubMed:7592910). Is involved in the regulation of eating behavior, acting as a stimulator of food intake (By similarity). Involved in the regulation of colonic antisecretory tone, and colonic contractility (By similarity).
Cellular Location	Secreted. Cytoplasmic vesicle, secretory vesicle, neuronal dense core vesicle {ECO:0000250|UniProtKB:P07808}
Tissue Location	One of the most abundant peptides in the nervous system. Also found in some chromaffin cells of the adrenal medulla

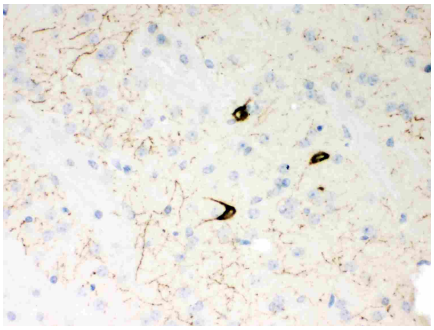
Background

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.

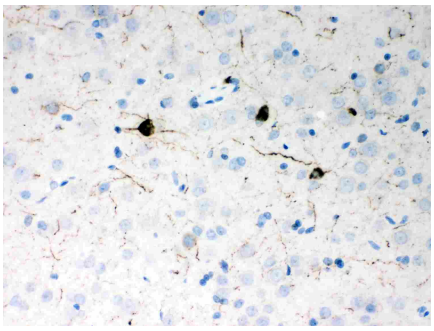
Images



All lanes: Anti Neuropeptide Y (ABO11987) at 0.5ug/mlWB: Recombinant Human Neuropeptide Y Protein 0.5ngPredicted bind size: 11KDObserved bind size: 11KD



Anti- Neuropeptide Y Picoband antibody, ABO11987,IHC(P)IHC(P): Mouse Brain Tissue



Anti- Neuropeptide Y Picoband antibody, ABO11987,IHC(P)IHC(P): Rat Brain Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.