

**Anti-Neuropeptide Y Picoband Antibody**  
**Catalog # ABO11987****Specification**

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**Anti-Neuropeptide Y Picoband Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC-P              |
| Primary Accession | <a href="#">P01303</a> |
| 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.

**Anti-Neuropeptide Y Picoband Antibody - 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 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Mouse, Rat, Human, By Heat  
Western blot, 0.1-0.5 µg/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.

**Protein Name**

Pro-neuropeptide Y

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence in the middle region of human Neuropeptide Y (29-64aa YPSKPDNPGEDAPAEDMARYYSALRHYNLITRQRY), 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 reconstitution, 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.

**Anti-Neuropeptide Y Picoband Antibody - Protein Information****Name** NPY**Function**

NPY is implicated in the control of feeding and in secretion of gonadotrophin-release hormone.

**Cellular Location**

Secreted. Cytoplasmic vesicle, secretory vesicle, neuronal dense core vesicle  
{ECO:0000250|UniProtKB:P07808}

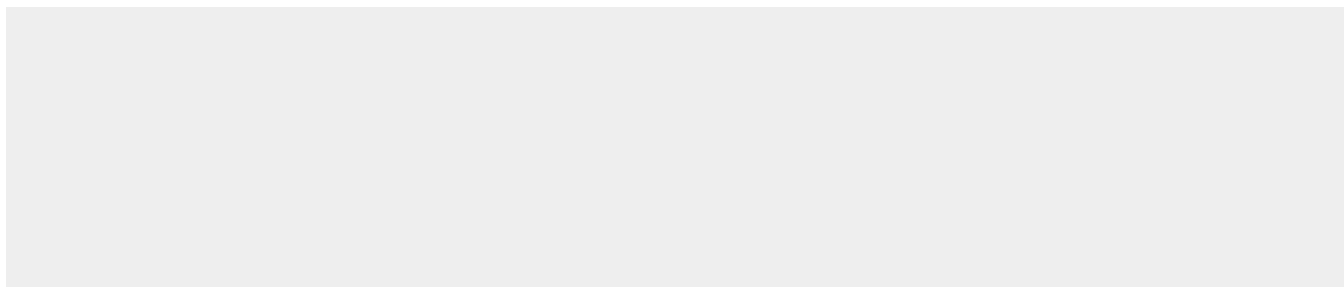
**Tissue Location**

One of the most abundant peptides in the nervous system. Also found in some chromaffin cells of the adrenal medulla

**Anti-Neuropeptide Y Picoband Antibody - Protocols**

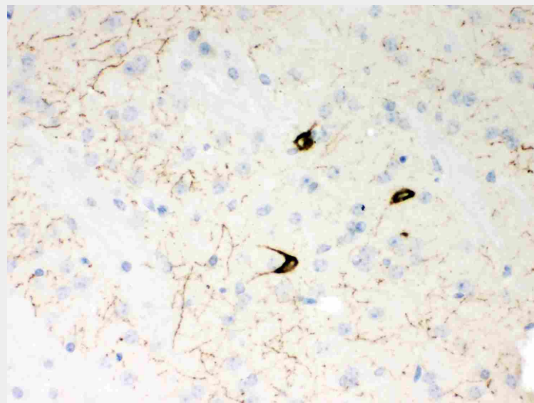
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

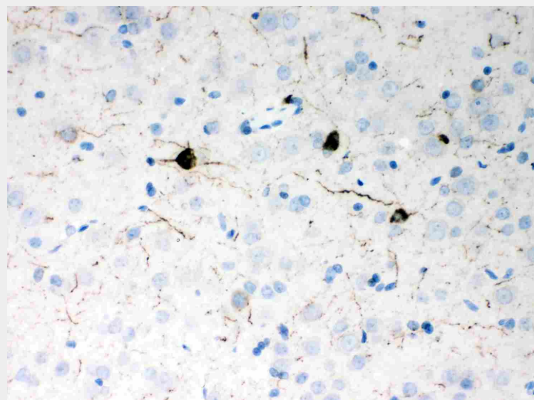
**Anti-Neuropeptide Y Picoband Antibody - Images**



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

### **Anti-Neuropeptide Y Picoband Antibody - 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.