

Rabbit Anti-Neuropeptide Y antibody

SL0071R

Product Name	Neuropeptide Y
Chinese Name	神经肽 Y 抗体
Alias	Neuropeptide tyrosine; Neuropeptide Y precursor; NPY; PYY 4; PYY4; Y Neuropeptide; Pro-neuropeptide Y; NPY_HUMAN.
Research Area	Cardiovascular Signal transduction
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse,Rat (predicted:Human,Cow,Horse,Rabbit) IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	4/8kDa
Cellular localization	Secretory protein
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human NPY: 29-64/97
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product	This gene encodes a neuropeptide that is widely expressed in the central nervous

Detail

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. [provided by RefSeq, Oct 2014]

Function:

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

Subcellular Location:

Secreted.

Tissue Specificity:

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

Post-translational modifications:

The neuropeptide Y form is cleaved at Pro-30 by the prolyl endopeptidase FAP (seprase) activity (in vitro).

Similarity:

Belongs to the NPY family.

SWISS:

P01303

Gene ID:

4852

Database links:

[Entrez Gene: 396464](#) Chicken

[Entrez Gene: 504216](#) Cow

[Entrez Gene: 4852](#) Human

[Entrez Gene: 109648](#) Mouse

[Entrez Gene: 397304](#) Pig

[Entrez Gene: 24604](#) Rat

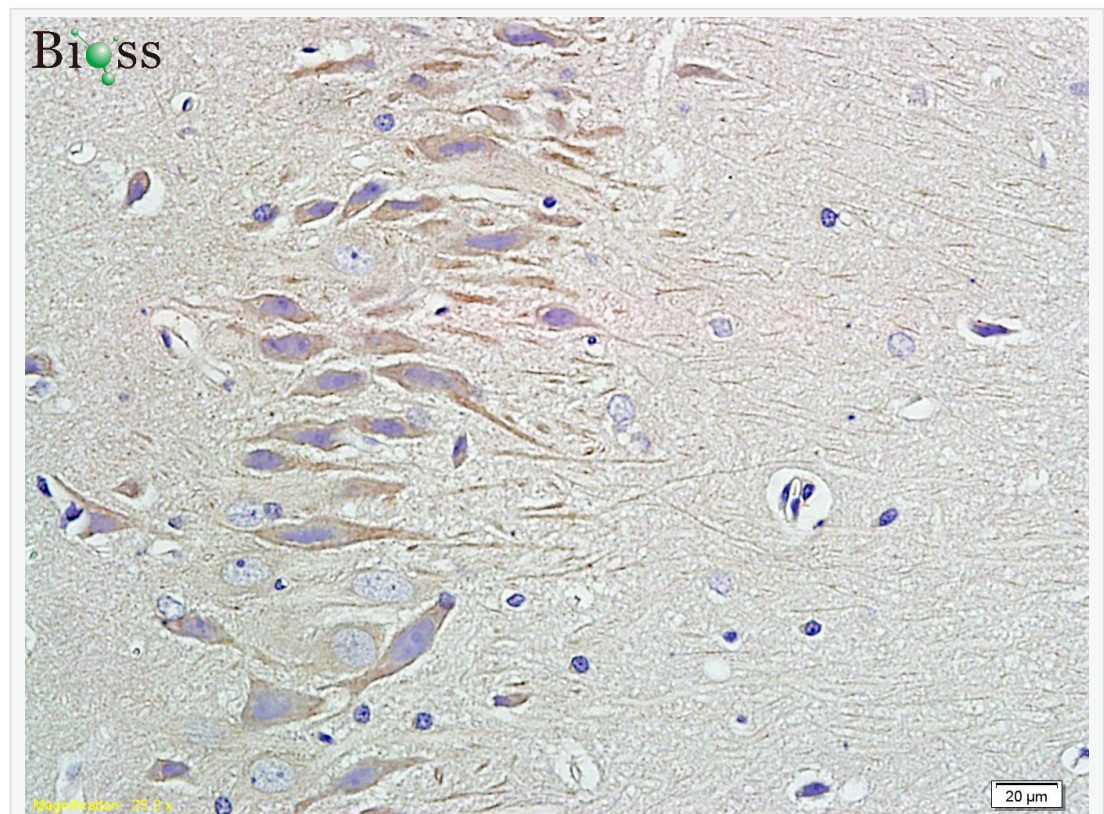
[Omim: 162640](#) Human

Neurobiology 相关蛋白

神经肽 Y 是一种神经传导因子, 参与机体的应急反应, 在应激状态下-NPY 升高;他还可以促进血小板聚集、白细胞粘附及巨噬细胞活化而参与免疫反应。神经肽 Y 广泛分布于动物中枢和外周神经元及机体组织、器官和腺体内,影响动物采食、激素分泌、Cardiovascular 效应、调节体温、生物节律、性行为及动物情绪等多种功能。

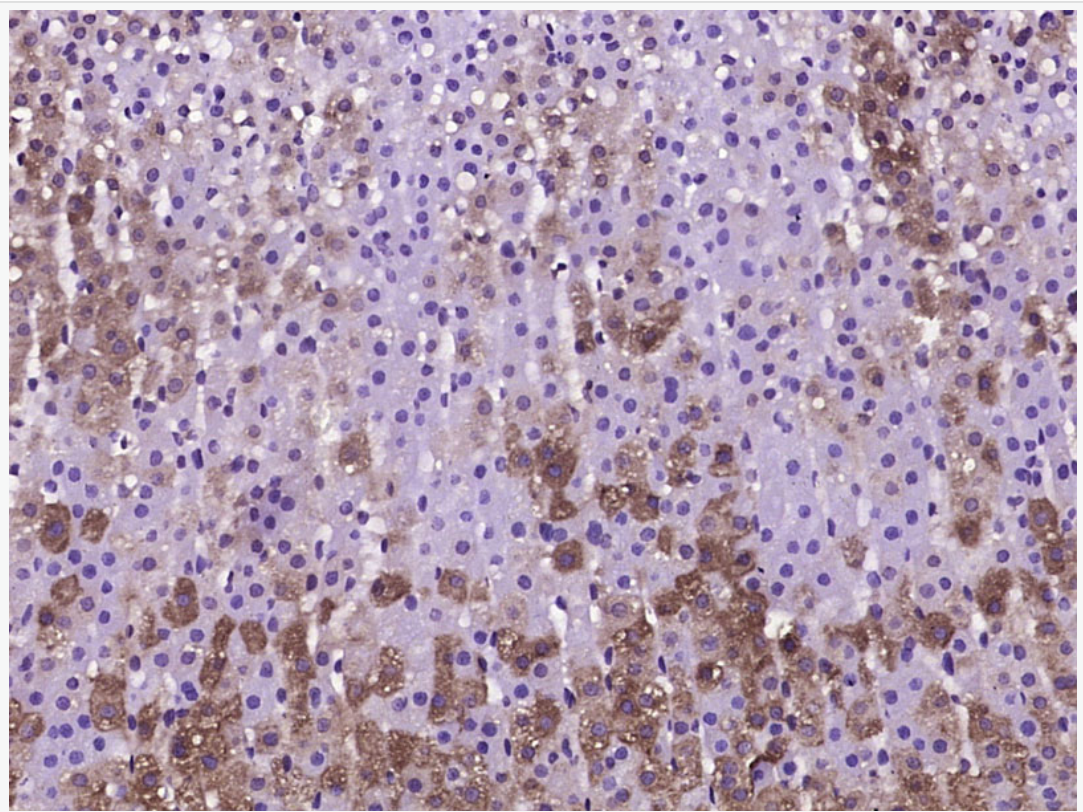
由于结构中富含酪氨酸,故称为神经肽酪氨酸 (NPY)。它的结构与同是 36 个氨基酸的胰多肽 (pp)和肽 YY(PYY)极其相似,故认为同属胰多肽家族。从分子结构看,人、大鼠、豚鼠和兔序列安全一致,而牛、羊、猪 NPY 序列与人的序列只相差一个氨基酸。

Product Picture



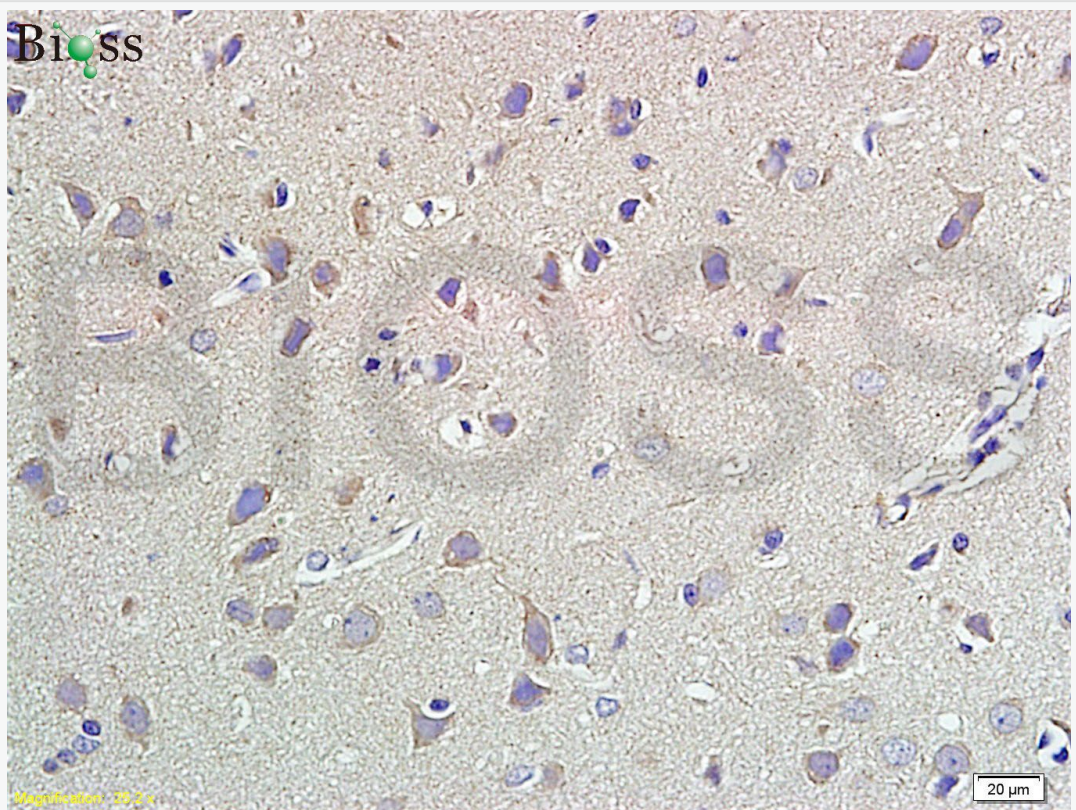
Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-NPY/Neuropeptide Y Polyclonal Antibody, Unconjugated(SL0071R) 1:400, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining



Paraformaldehyde-fixed, paraffin embedded (Rat adrenal gland); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Neuropeptide Y) Polyclonal

Antibody, Unconjugated (SL0071R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Formalin-fixed and paraffin-embedded rat brain tissue labeled with Rabbit Anti-NPY/Neuropeptide Y Polyclonal Antibody, Unconjugated(SL0071R) at 1:400 followed by conjugation to the secondary antibody and DAB staining