



## Rabbit Anti-Neuropeptide Y antibody

SL0071R

<b>Product Name:</b>	Neuropeptide Y
<b>Chinese Name:</b>	神经肽Y抗体
<b>Alias:</b>	Neuropeptide tyrosine; Neuropeptide Y precursor; NPY; PYY 4; PYY4; Y Neuropeptide; Pro-neuropeptide Y; NPY_HUMAN.
<b>文献引用</b> <b>PubMed</b> :	<p><b>Specific References(3)</b> SL0071R has been referenced in 3 publications.</p> <p><b>[IF=2.02]</b>Duan, Hubin, et al. "The role of neuropeptide Y and aquaporin 4 in the pathogenesis of intestinal dysfunction caused by traumatic brain injury." Journal of Surgical Research (2013).<b>IHC-P;Rat.</b>  <a href="#">PubMed:23622727</a></p> <p><b>[IF=1.89]</b>Chen, Shengru, et al. "Changes in nerve fibers and microvessel density in residual spleen after subtotal splenectomy due to portal hypertension." International Journal of Clinical and Experimental Pathology 9.2 (2016): 1557-1567.<b>IHC-P;Human.</b></p> <p><b>[IF=3.23]</b>Chen, Guiqian, et al. "The Stimulatory Effect of Cerebral Intraventricular Injection of cNPY on Precocial Feeding Behavior in Neonatal Chicks (Gallus domesticus)." PloS one 11.4 (2016): e0153342.<b>other;Chicken.</b>  <a href="#">PubMed:27055273</a></p>
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Cow,Horse,Rabbit,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	4/8kDa

<b>Cellular localization:</b>	Secretory protein
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human NPY:29-64/97
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>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. [provided by RefSeq, Oct 2014]</p> <p><b>Function:</b> NPY is implicated in the control of feeding and in secretion of gonadotrophin-release hormone.</p> <p><b>Subcellular Location:</b> Secreted.</p> <p><b>Tissue Specificity:</b> One of the most abundant peptides in the nervous system. Also found in some chromaffin cells of the adrenal medulla.</p> <p><b>Post-translational modifications:</b> The neuropeptide Y form is cleaved at Pro-30 by the prolyl endopeptidase FAP (seprase) activity (in vitro).</p> <p><b>Similarity:</b> Belongs to the NPY family.</p> <p><b>SWISS:</b> P01303</p> <p><b>Gene ID:</b></p>

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

[Omin: 162640](#)Human

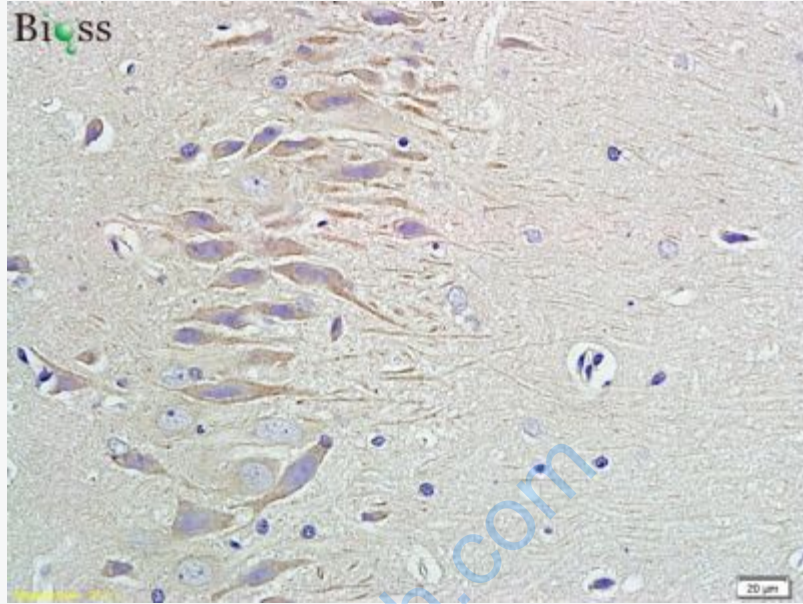
**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Neurobiology相关蛋白**

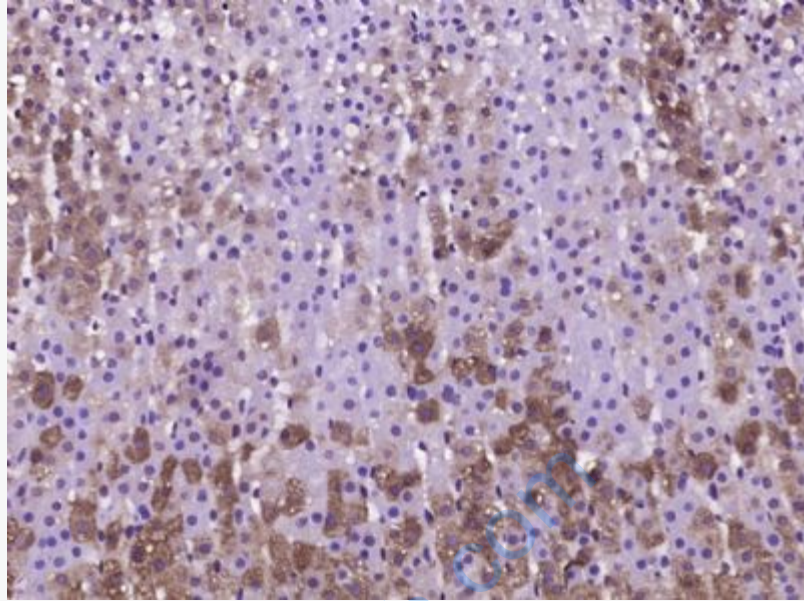
神经肽Y是一种神经传导因子,参与机体的应急反应,在应激状态下-NPY升高;他还可以促进血小板聚集、白细胞粘附及巨噬细胞活化而参与免疫反应  
神经肽Y广泛分布于动物中枢和外周神经元及机体组织、器官和腺体内,影响动物采食、激素分泌、Cardiovascular效应、调节体温、生物节律、性行为及动物情绪等多种功能。

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。

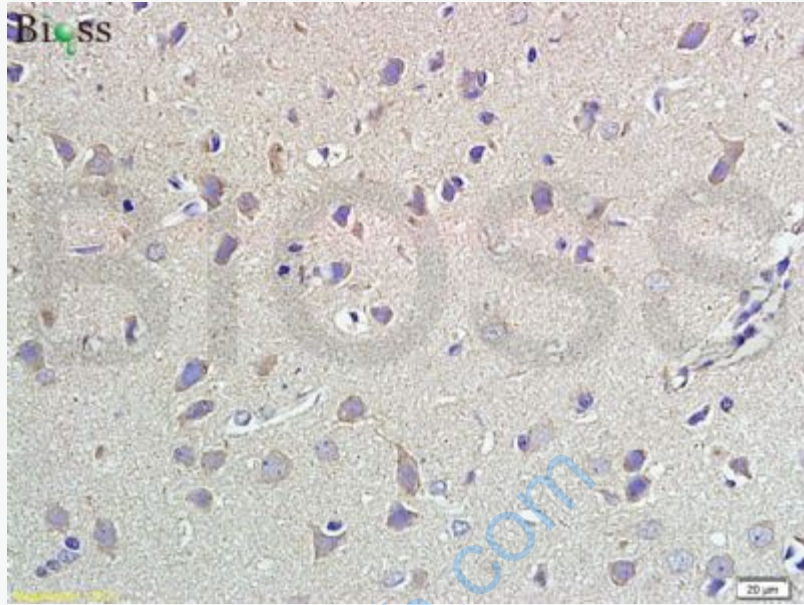


**Picture:**

Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, 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