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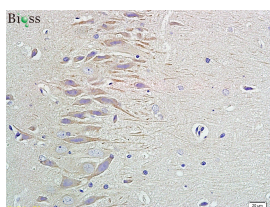
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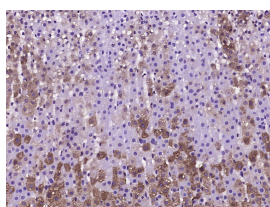
400-901-9800

**Neuropeptide Y Rabbit pAb****— DATASHEET —**

<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 4852 <b>Target:</b> Neuropeptide Y <b>Immunogen:</b> KLH conjugated synthetic peptide derived from human NPY: 29-64/97. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. <b>Background:</b> 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]	<b>Isotype:</b> IgG  <b>Applications:</b> IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500)  <b>Reactivity:</b> Human, Mouse, Rat (predicted: Rabbit, Cow, Horse)  <b>Predicted MW.:</b> 4/8 kDa  <b>Subcellular Location:</b> Secreted
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**— VALIDATION IMAGES —**

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(bs-0071R) 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 (bs-0071R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

**— SELECTED CITATIONS —**

- **[IF=13]** Qihang Sun. et al.Mettl3-m6A-NPY axis governing neuron-microglia interaction regulates sleep amount of mice.CELL DISCOVERY.2025 Feb 4;11(1):10. IF,Western blot ;Mouse. 39905012
- **[IF=4.546]** Quancheng Liu. et al. FumDSB Can Reduce the Toxic Effects of Fumonisin B1 by Regulating Several Brain-Gut Peptides in Both the Hypothalamus and Jejenum of Growing Pigs. Toxins. 2021 Dec;13(12):874 WB,IHC ;Pig.

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

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- **[IF=3.23]** 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. Other ;=\"Chicken\". 27055273
- **[IF=2.02]** 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). IHC ;=\"Rat\". 23622727
- **[IF=1.89]** 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. IHC ;=\"Human\". ISSN:1936-2625/IJCEP0018875