

Neuropeptide Y

Cat.No. 394 004; Polyclonal Guinea pig antibody, 100 µl antiserum (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µl antiserum, lyophilized. For reconstitution add 100 µl H ₂ O, then aliquot and store at -20°C until use.
Applications	WB: not tested yet IP: not tested yet ICC: not tested yet IHC: 1 : 500 up to 1 : 1000 IHC-P/FFPE: 1 : 500
Immunogen	Synthetic peptide corresponding to AA 1 to 16 from mouse Neuropeptide Y (UniProt Id: P57774)
Reactivity	Reacts with: mouse (P57774), rat (P07808). Other species not tested yet.
Specificity	Speific for Neuropeptide Y.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Neuropeptide Y (NPY) is a 36-amino acid polypeptide that acts as a neurotransmitter in the brain and in the autonomic nervous system. It is produced and secreted by neurons of the sympathetic nervous system and neurons in the brain, e.g. the hypothalamus. NPY is involved in several physiological functions, including: increasing food intake and storage of energy as fat, reducing anxiety and stress, reducing pain perception, and lowering blood pressure.

Selected References SYSY Antibodies

VIP-immunoreactive interneurons within circuits of the mouse basolateral amygdala.
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The Journal of neuroscience : the official journal of the Society for Neuroscience (2018) : . **IHC; tested species: mouse**

Selected General References

Neuropeptide Y and its receptors in ventricular endocardial endothelial cells.
Jacques D, D'Orléans-Juste P, Magder S, Bkaily G
Canadian journal of physiology and pharmacology (2017) 95(10): 1224-1229.

Arcuate neuropeptide Y inhibits sympathetic nerve activity via multiple neuropathways.
Shi Z, Madden CJ, Brooks VL
The Journal of clinical investigation (2017) 127(7): 2868-2880.

Neuropeptide Y expression marks partially differentiated β cells in mice and humans.
Rodnoi P, Rajkumar M, Moin ASM, Georgia SK, Butler AE, Dhawan S
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Neuropeptide Y modifies the hypertrophic response of adult ventricular cardiomyocytes to norepinephrine.
Kanevskij M, Taimor G, Schäfer M, Piper HM, Schlüter KD
Cardiovascular research (2002) 53(4): 879-87.

Differential effects of serotonin (5-HT) lesions and synthesis blockade on neuropeptide-Y immunoreactivity and 5-HT1A, 5-HT1B/1D and 5-HT2A/2C receptor binding sites in the rat cerebral cortex.
Coman V, Segu L, Buhot MC, Daszuta A
Brain research (1998) 795(1-2): 264-76.