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NPY2R Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9466a

Product Information

Application	WB, E
Primary Accession	P49146
Other Accession	P97295
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22922
Calculated MW	42731
Antigen Region	19-45

Additional Information

Gene ID	4887
Other Names	Neuropeptide Y receptor type 2, NPY2-R, NPY-Y2 receptor, Y2 receptor, NPY2R
Target/Specificity	This NPY2R antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 19-45 amino acids from the N-terminal region of human NPY2R.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NPY2R Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NPY2R {ECO:0000303|PubMed:8975716}
Function	Receptor for neuropeptide Y (NPY) and peptide YY (PYY) (PubMed: 7592910, PubMed:7559383, PubMed:35507650, PubMed:36525977, PubMed:38882210). Can also bind with lower affinity pancreatic polypeptide

	(PP/PPY) and [Leu-31, Pro-34]NPY, an analog of NPY modified at residues 31 and 34 of the mature form. NPY or PYY binding induces adenylate cyclase-inhibiting G protein-coupled receptor signaling, resulting in inhibition of cAMP production (PubMed:7592910, PubMed:7559383, PubMed:35507650, PubMed:38882210). Receptor activation by ligands also leads to an increase of intracellular Ca(2+) levels (PubMed:7559383, PubMed:7592910). Involved in the regulation of colonic antisecretory tone, and colonic contractility (By similarity). As receptor for peptide PYY(3-36) in the arcuate nucleus of the hypothalamus, it is involved in the down-regulation of appetite and food intake (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	High levels in amygdala, corpus callosum, hippocampus and subthalamic nucleus. Also detectable in caudate nucleus, hypothalamus and substantia nigra

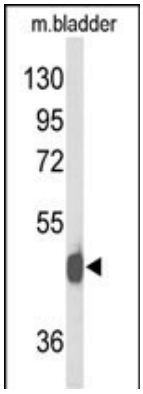
Background

Receptor for neuropeptide Y and peptide YY. The rank order of affinity of this receptor for pancreatic polypeptides is PYY > NPY > PYY (3-36) > NPY (2-36) > [Ile-31, Gln-34] PP > [Leu-31, Pro-34] NPY > PP, [Pro-34] PYY and NPY free acid.

References

?Shoblock, J.R., et al. Psychopharmacology (Berl.) 208(2):265-277(2010)
?Arnett, D.K., et al. J. Hypertens. 27(8):1585-1593(2009)
?Zhang, J., et al. Zhonghua Liu Xing Bing Xue Za Zhi 30(7):695-698(2009)

Images



Western blot analysis of NPY2R Antibody (N-term) (Cat. #AP9466a) in mouse bladder tissue lysates (35ug/lane). DCN (arrow) was detected using the purified Pab.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.