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NPY2-R Polyclonal Antibody

Catalog # AP71367

Product Information

Application	WB, IF, ICC, E
Primary Accession	P49146
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42731

Additional Information

Gene ID	4887
Other Names	NPY2R; Neuropeptide Y receptor type 2; NPY2-R; NPY-Y2 receptor; Y2 receptor
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications. IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

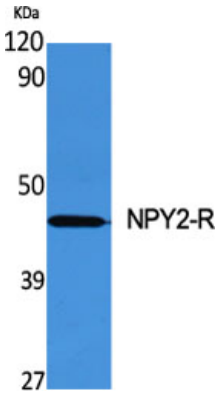
Name	NPY2R {ECO:0000303|PubMed:8975716}
Function	Receptor for neuropeptide Y (NPY) and peptide YY (PYY) (PubMed: 7592910, PubMed:7559383, PubMed:35507650, PubMed:36525977, PubMed:38882210). Can also bind with lower affinity pancreatic polypeptide (PP/PPY) and [Leu-31, Pro-34]NPY, an analog of NPY modified 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

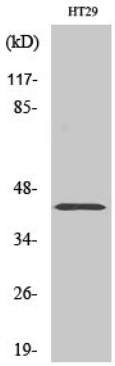
Background

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.

Images



Western Blot analysis of various cells using NPY2-R Polyclonal Antibody diluted at 1：500



Western Blot analysis of HT29 cells using NPY2-R Polyclonal Antibody diluted at 1：500

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