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NPY1-R Polyclonal Antibody

Catalog # AP71366

Product Information

Application	WB, IF, ICC, E
Primary Accession	P25929
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44392

Additional Information

Gene ID	4886
Other Names	NPY1R; NPYR; NPYY1; Neuropeptide Y receptor type 1; NPY1-R
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

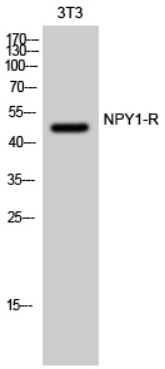
Name	NPY1R
Synonyms	NPYR, NPYY1
Function	Receptor for neuropeptide Y (NPY) and peptide YY (PYY) (PubMed: 1317848, PubMed:1321422, PubMed:35165283, PubMed:35507650, PubMed:38882210). Can also bind with high affinity [Leu-31, Pro-34]NPY, an analog of NPY modified at residues 31 and 34 of the mature form, while having virtually no affinity for pancreatic polypeptide (PP/PPY) at physiological concentrations (PubMed:1321422, PubMed:38882210). NPY or PYY binding induces adenylate cyclase-inhibiting G protein-coupled receptor signaling, resulting in inhibition of cAMP production (PubMed:1317848, PubMed:1321422, PubMed:35507650, PubMed:38882210). Receptor activation by ligands also leads to an increase of intracellular Ca(2+) levels (PubMed:1317848, PubMed:1321422, PubMed:35165283). As a receptor for NPY, it is involved in the regulation of eating behaviour and NPY-induced stimulation of food intake (By similarity). Involved in the regulation of colonic antisecretory tone, and colonic contractility (By similarity).

Cellular Location Cell membrane; Multi-pass membrane protein

Background

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

Images



Western Blot analysis of 3T3 cells using NPY1-R Polyclonal Antibody

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