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# NPY1-R Polyclonal Antibody

Catalog # AP71366

## Product Information

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

## Additional Information

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|---|---|
| **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

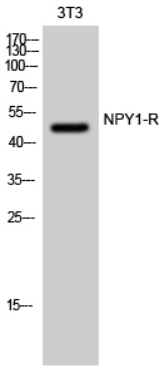
| | |
|---|---|
| **Name** | NPY1R |
| **Synonyms** | NPYR, NPYY1 |
| **Function** | Receptor for neuropeptide Y (NPY) and peptide YY (PYY) (PubMed: 1317848, PubMed:1321422, PubMed:35165283, PubMed:35507650, PubMed:38882210). Can also bind with high affinity [Leu-31, Pro-34]NPY, an analog of NPY modified 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 behavior 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'.