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Anti-NPY2R Antibody

Catalog # AP51397

Product Information

Application	WB, IF/IC
Primary Accession	P49146
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42731

Additional Information

Gene ID	4887
Other Names	Neuropeptide Y receptor type 2; NPY2-R; NPY-Y2 receptor; Y2 receptor
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human NPY2R. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

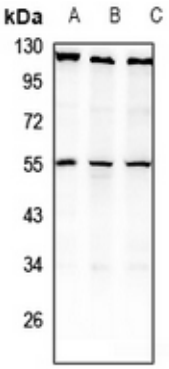
Name	NPY2R {ECO:0000303|PubMed:8975716}
Function	Receptor for neuropeptide Y (NPY) and peptide YY (PYY) (PubMed: 7592910, PubMed:7559383, PubMed:35507650, PubMed:36525977, PubMed:38882210). Can also bind with lower affinity pancreatic polypeptide (PP/PPY) and [Leu-31, Pro-34]NPY, an analog of NPY modified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

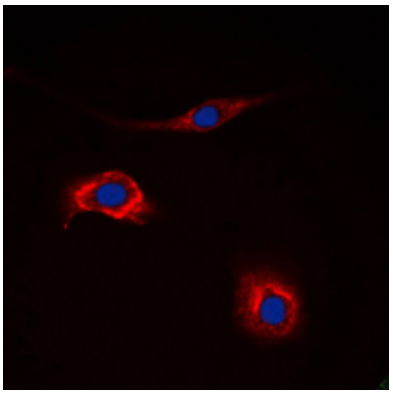
References

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Images



Western blot analysis of NPY2R expression in U87MG (A), HCT116 (B), HepG2 (C) whole cell lysates. (Predicted band size: 42 kD; Observed band size: 55 kD)



Immunofluorescent analysis of NPY2R staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

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