10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

NPY1R Rabbit pAb

Catalog # AP98333

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P25929
Other Accession	P25929
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44392
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NPY1R
Epitope Specificity	221-270/384
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the G-protein coupled receptor 1 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Neuropeptide Y (NPY) is one of the most abundant neuropeptides in the mammalian nervous system and exhibits a diverse range of important physiologic activities, including effects on psychomotor activity, food intake, regulation of central endocrine secretion, and potent vasoactive effects on the cardiovascular system. There are two major subtypes of NPY (Y1 and Y2). The NPY Y1 receptors have been identified in a variety of tissues, including brain, spleen, small intestine, kidney, testis, placenta, breast, colon, ganglion, heart, and aortic smooth muscle. The Y2 receptor is found mainly in the central nervous system. NPY receptors are a member of the G protein-coupled receptor superfamily.

Additional Information

Gene ID	4886
Other Names	NPY1-R; NPYR; Y1-R; NPY-1; NPY1R_HUMAN; NPY1R; NPYY1; NPY1R_MOUSE; NPY1R_RAT; FC5; neuropeptide Y receptor Y1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

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