Neuropeptide Y receptor Y_1 polyclonal antibody

Neuropeptide Y (NPY) and the closely related peptide YY (PYY) and pancreatic polypeptide (PP) are a family of 36-amino acid, tyrosine-rich peptides with amidated C-terminal ends that are known to regulate gastrointestinal and central nervous system functions including food intake and the inhibition of anxiety. Four functional NPY receptors (Y1/Y2/Y4/Y5) have been identified to date, with a fifth (y6) being a non-functional receptor in primates that is absent from the rat genome. Y1, Y2, and Y5 receptors preferentially bind NPY and PYY, while the Y4 receptor preferentially binds PP. All four receptors signal via coupling to Gi/o alpha subunits, inhibiting adenylyl cyclase activity, thereby decreasing intracellular cAMP levels. Y1 receptor deficient mice display a variety of physical and behavioral phenotypes including obesity, hyperinsulinemia, and increased territorial behavior.

This antibody is covered by our Worry-Free Guarantee.

Citations: 1 View Online »

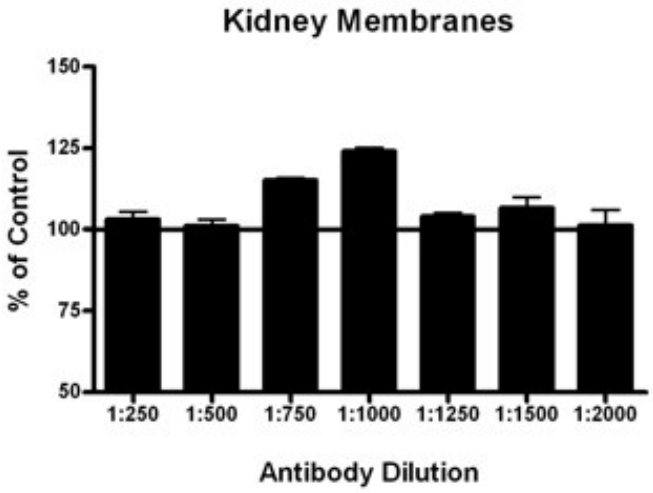
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ADI-905-798-100	100µg

Manuals, SDS & CofA View Online »



Western blot analysis: MW marker (1) and 20µg rat brain extract (2) probed with Neuropeptide Y Receptor (Y1) pAb at 5.1µg/ml.



Membrane ELISA: Lewis rat heart membranes (5µg/well) were treated with 1µM concentrations of agonist (NPY) and probed with Neuropeptide Y Receptor (Y1) pAb (1:250 to 1:2000 of a 1µg/µl stock solution) by ELISA. Data from vehicle treated cells were taken as 100%. Results are the mean ± SEM (n=4).

Handling & Storage

Handling	Keep on ice at all times.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	NPY1R, NPYR
Application	ELISA, WB
Application Notes	Suitable for membrane-based ELISA. Predicted MW of ~44kDa. Higher MW species (~80kDa) also observed by Western blot which may reflects post-translational modification or dimerization of the receptor.
Crossreactivity	Predicted species reactivity based on epitope sequence homology: horse, chimpanzee, rhesus macaque, guinea pig.
Formulation	Liquid. In PBS containing 50% glycerol and 0.01% sodium azide.
Host	Rabbit
Immunogen	Synthetic peptide corresponding to the sequence near the N-terminus of rat neuropeptide Y receptor Y1.
Purity Detail	Peptide affinity purified.
Species Reactivity	Human, Mouse, Rat
UniProt ID	P21555
Worry-free Guarantee	**This antibody is covered by our Worry-Free Guarantee**

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