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Rabbit Anti-NPY2R antibody

SL0937R

Product Name:	NPY2R
Chinese Name:	神经肽Y受体2抗体
Alias:	Neuropeptide Y Receptor Type 2; Neuropeptide Y receptor Y2; NPY-Y2 receptor; NPY2R_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	43kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human NPY2R:301-381/381
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	Neuropeptide Y (NPY), a peptide widely expressed in the brain, acts through the protein G-coupled receptors Y1, Y2 and Y5. This peptide modulates many important functions such as the control of energy balance and anxiety. Its involvement in brain development has been less investigated. Neuropeptide Y (NPY) receptors are members of a G protein coupled receptor superfamily and they mediate a variety of physiological responses including feeding and

vasoconstriction. The endogenous ligands of NPY receptors are a family of structurally related peptides, including NPY, peptide YY (PYY), and pancreatic polypeptide (PP). Increased activity of NPY and its receptors, Y1R, Y2R, and Y5R has been found in the brain in many forms of experimental obesity. Furthermore, several association studies have supported the association between NPY2R and obesity.

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

Subcellular Location:
Cell membrane.

Tissue Specificity:
High levels in amygdala, corpus callosum, hippocampus and subthalamic nucleus. Also detectable in caudate nucleus, hypothalamus and substantia nigra.

Similarity:
Belongs to the G-protein coupled receptor 1 family.

SWISS:
P49146

Gene ID:
4887

Database links:

Entrez Gene: 4887Human

Entrez Gene: 18167Mouse

Entrez Gene: 66024Rat

Omim: 162642Human

SwissProt: P49146Human

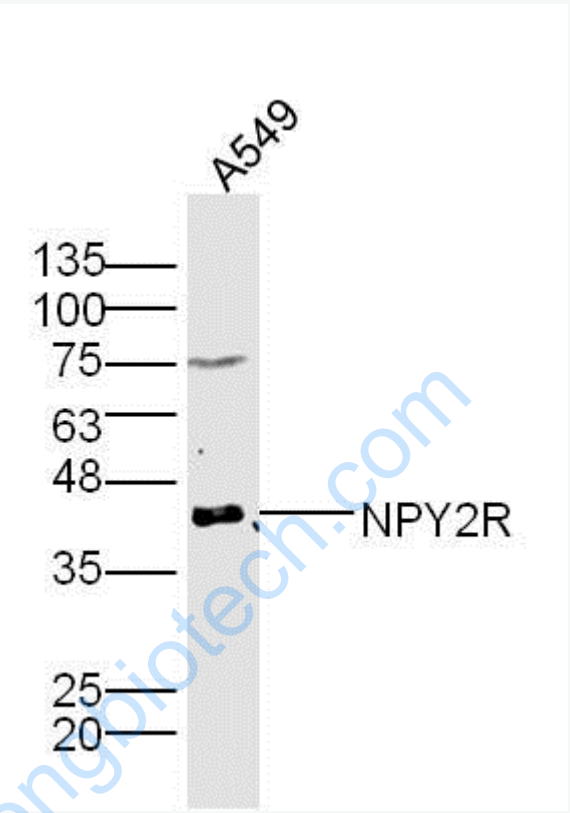
SwissProt: P97295Mouse

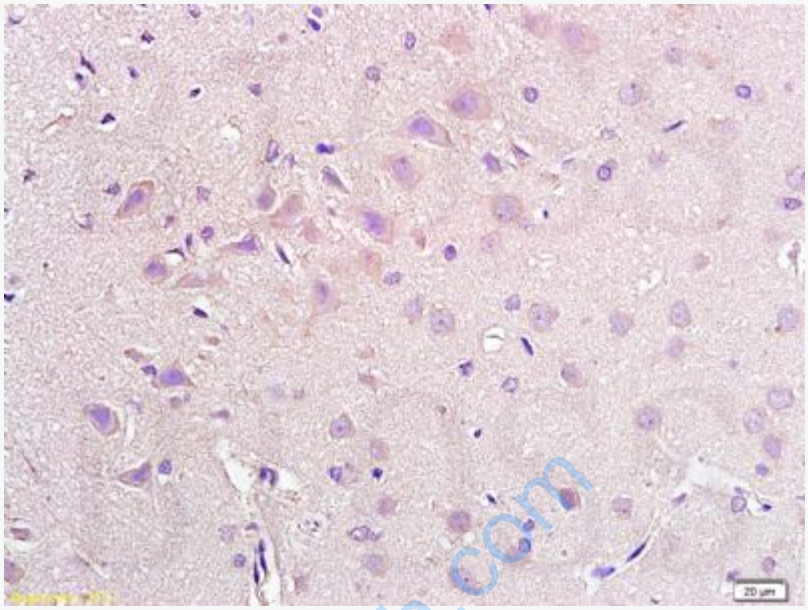
Unigene: 37125Human

Unigene: 1433Mouse

Unigene: 64505Rat

Important Note:
This product as supplied is intended for research use only, not for use in human,

	therapeutic or diagnostic applications.
Picture:	 Sample: A549 Cell Lysate at 30 ug Primary: Anti- NPY2R (SL0937R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 43 kD Observed band size: 43 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-NPY2R Polyclonal Antibody, Unconjugated(SL0937R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining