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[Primary Antibody]

Rabbit Anti-NPY5R antibody

Catalog Number: SL11521R

FOR RESEARCH USE ONLY

[DATASHEET]

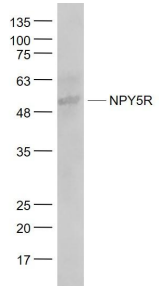
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	NPY5R
Immunogen:	KLH conjugated synthetic peptide derived from human NPY5R: 1-100/445 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse (predicted:Dog,Cow,Horse,Rabbit)
Predicted MW.:	51kDa
Subcellular Location:	The cell membrane
Background:	Pancreatic polypeptide (PP), neuropeptide Y (NPY), and peptide YY (PYY) are related 36-amino acid hormones. A number of structurally related receptors for these peptides have been isolated, NPY1-R, NPY2-R, NPY3-R, NPY4-R, NPY5-R, and NPY6-R. NPY4-R is expressed in several human tissues, including brain, coronary artery, and ileum. NPY4-R maps to human chromosome 10q11.2. NPY-5R, isolated from rat hypothalamus, encodes a 456-amino acid protein with less than 35% overall identity to known Y-type receptors. The human NPY5-R sequence is nearly identical to, but in the opposite orientation from, that of the human NPY1-R sequence. NPY5-R localizes to the paraventricular hypothalamic nucleus, the lateral hypothalamus, and other locations consistent with a role in the control of feeding behavior. The gene which encodes NPY5-R maps to human

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

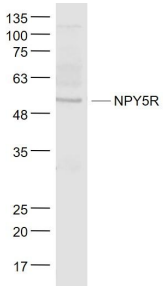
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	chromosome 4q32.2. NPY6-R is abundantly expressed in human heart and skeletal muscle and the gene which encodes NPY6-R maps to human chromosome 5q31. **Function:** Receptor for neuropeptide Y and peptide YY. The activity of this receptor is mediated by G proteins that inhibit adenylate cyclase activity. Seems to be associated with food intake. Could be involved in feeding disorders. **Subcellular Location:** Cell membrane; Multi-pass membrane protein. **Tissue Specificity:** Brain; hypothalamus. **Similarity:** Belongs to the G-protein coupled receptor 1 family. **Database links:** **Entrez Gene:** 4889 Human **Entrez Gene:** 18168 Mouse **Entrez Gene:** 25340 Rat Omim: 602001 Human **SwissProt:** Q15761 Human **SwissProt:** O70342 Mouse **SwissProt:** Q63634 Rat **Unigene:** 519058 Human **Unigene:** 598503 Human **Unigene:** 10685 Mouse **Unigene:** 10532 Rat

[VALIDATION IMAGES]



Sample:
Cerebellum (Mouse) Lysate at 40 ug
Primary: Anti- NPY5R (SL11521R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 51 kD
Observed band size: 53 kD



Sample:
U87MG(Human) Cell Lysate at 30 ug
Primary: Anti- NPY5R (SL11521R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 51 kD
Observed band size: 53 kD

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