



Product Information Sheet

Polyclonal Anti-Neuropeptide Y Receptor Y1, **NPY1R**

Catalogue No. PA1130

Lot No. 08J01

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

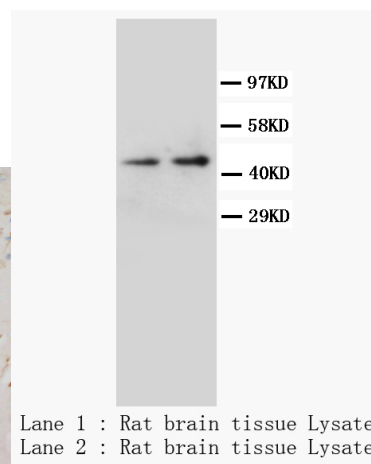
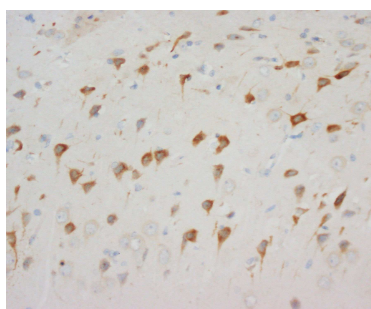
Human, mouse, rat.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)



Immunogen

A synthetic peptide mapping at the C-terminal of human NPY1R, identical to the related rat and mouse sequence.

Purity

Immunogen affinity purified.

Application

Western blot

At 1µg/ml with the appropriate system to detect NPY1R in cells and tissues.

Immunohistochemistry(P)

At 1-2µg/ml to detect NPY1R in formalin fixed and paraffin embedded tissues. Boiling the sections is required.

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

Antagene, Inc.

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BACKGROUND

Neuropeptide Y Receptor Y1 (NPY1R) is one of the most abundant neuropeptides in the mammalian nervous system and exhibits a diverse range of important physiological activities, including effects on psychomotor activity, food intake, regulation of central endocrine secretion, and potent vasoactive effects on the cardiovascular system.. Two major subtypes of NPY receptor (Y1 and Y2) have been defined by pharmacological criteria. NPY1R and NPY2R encoding mouse type 1 and type 2 neuropeptide Y receptors, have been mapped by interspecific backcross analysis. NPY1R is required for central physiological and pharmacological NPY-induced analgesia and that its activation is both sufficient and required for the release of substance P and initiation of neurogenic inflammation.

REFERENCE

1. Larhammar, D.; Blomqvist, A. G.; Yee, F.; Jazin, E.; Yoo, H.; Wahlestedt, C. : Cloning and functional expression of a human neuropeptide Y/peptide YY receptor of the Y1 type. *J. Biol. Chem.* 267: 10935-10938, 1992.
2. Lutz, C. M.; Frankel, W. N.; Richards, J. E.; Thompson, D. A. : Neuropeptide Y receptor genes on human chromosome 4q31-q32 map to conserved linkage groups on mouse chromosomes 3 and 8. *Genomics* 41: 498-500, 1997.
3. Naveilhan, P.; Hassani, H.; Lucas, G.; Blakeman, K. H.; Hao, J.-X.; Xu, X.-J.; Wiesenfeld-Hallin, Z.; Thoren, P.; Ernfors, P. : Reduced antinociception and plasma extravasation in mice lacking a neuropeptide Y receptor. *Nature* 409: 513-517, 2001.