



Polyclonal Anti-Neuropeptide Y Receptor Y1, NPY1R (Sepharose Bead Conjugate)

Catalogue No. PA1130-S

Lot No. 08J01

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human, mouse, rat. No cross reactivity with other proteins.

Recommended application

(Immunoprecipitation(IP))

Immunogen

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

Purification

Immunogen affinity purified.

Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN₃ preservative.

Storage

Store at 4°C for frequent use.

Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

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.; Ernfor, P. : Reduced antinociception and plasma extravasation in mice lacking a neuropeptide Y receptor. *Nature* 409: 513-517, 2001.

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