



## Product Information Sheet

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

**Catalogue No.** PA1130-M

**Immunogen**

**Lot No.** 08J01

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

**Ig type:** rabbit IgG1

**Purification**

**Size:** 100µg/Vial

Immunogen affinity purified

**Specificity**

Human, mouse, rat.

No cross reactivity with other proteins.

**Contents**

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN<sub>3</sub>.

**Storage**

Store at 4°C for frequent use.

**Recommended application**

*Immunoprecipitation(IP)*

**Description:**

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic

#### 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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