Product Information Sheet

Polyclonal Anti-Orexin Receptor *(Magnetic Bead Conjugate)*

Catalogue No. PA1100-M

Lot No. 08F01

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 corresponding to a sequence at the C-terminal of human Orexin Receptor, identical to the related mouse and rat sequence.

Purity

Immunogen affinity purified.

Contents

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN_3.

Storage

Store at 4˚C for frequent use.

Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation

BACKGROUND

Orexins are endogeneous peptides that activate Orexin Receptor type 1 and type 2, two closely related G-protein coupled receptors. Orexins-A and -B are hypothalamic peptides derived from a precursor called preproorexin and affect the stimulation of food intake. They act on G protein receptors named orexin receptor-1 (OX1R) and orexin receptor-2 (OX2R), respectively.Stimulation of these receptors by orexins causes an increase in intracellular calcium levels in hypothalamic cells in vitro. In vivo, orexins control feeding and may also be involved in modulating sleep-wake cycles and other hypothalamic functions.

REFERENCE

1.Blanco, M.; Lopez, M.; Garcia-Caballero, T.; Gallego, R.; Vazquez-Boquete, A.; Morel, G.; Senaris, R.; Casanueva, F.; Dieguez, C.; Beiras, A. : Cellular localization of orexin receptors in human pituitary. *J. Clin. Endocr. Metab.* 86: 1616-1619, 2001.

2.Sakurai, T.; Amemiya, A.; Ishii, M.; Matsuzaki, I.; Chemelli, R. M.; Tanaka, H.; Williams, S. C.; Richardson, J. A.; Kozlowski, G. P.; Wilson, S.; Arch, J. R. S.; Buckingham, R. E.; Haynes, A. C.; Carr, S. A.; Annan, R. S.; McNulty, D. E.; Liu, W.-S.; Terrett, J. A.; Elshourbagy, N. A.; Bergsma, D. J.; Yanagisawa, M. : Orexins and orexin receptors: a family of hypothalamic neuropeptides and G protein-coupled receptors that regulate feeding behavior. *Cell* 92: 573-585, 1998.

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