



Product Information Sheet

Polyclonal Anti-Orexin Receptor

Catalogue No. PA1100

Lot No. 08F01

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

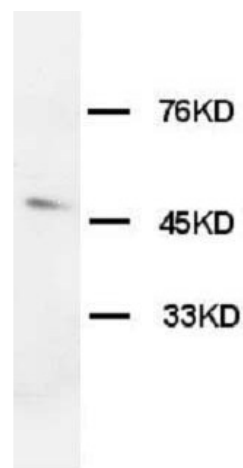
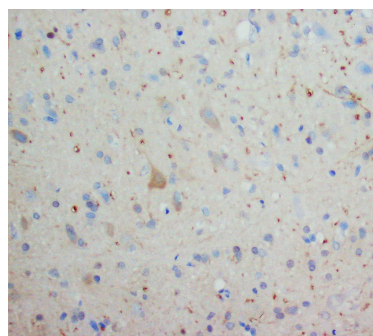
Human, mouse, rat.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)



Immunogen

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

Purity

Immunogen affinity purified.

Application

Western blot

At 2µg/ml with the appropriate system to detect Orexin Receptor in cells and tissues.

Immunohistochemistry(P)

At 1-2µg/ml to detect Orexin Receptor in formalin fixed and paraffin embedded tissues.

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.

Toll Free: 1(866)964-2589

email: Info@antageneinc.com

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.

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.