

## **Anti Orexin B (Mouse, Rat) Serum**

**Cat. No. Y451**

**Lot No. 1385170126**

**Description:** This antiserum was raised in a rabbit by immunization with a keyhole limpet hemocyanin (KLH) conjugate of synthetic orexin B (mouse, rat) peptide. The product vial contains 50 µL of the titled antiserum obtained by lyophilizing its 0.001 M phosphate buffer (pH 7.0, 0.5 mL) solution. It can be used for immunoassay, immunohistochemistry or any other immunoreaction with orexin B (mouse, rat).

**Immunogen:** Synthetic Orexin B (mouse, rat)-KLH conjugate

**Host:** Rabbit

**Amino Acid Sequence of Orexin B (mouse, rat)<sup>1) 2)</sup>:**

RPGPPGLQGR LQRLQLQANGN HAAGILTM-NH<sub>2</sub>

**Product Form:** Lyophilized unpurified serum

**Size:** 50 µL

**Reconstitution:** Reconstitute the product with 0.5 mL of 0.01M PBS (pH 7.0) to make a 10 fold diluted stock solution. If it is stored in a refrigerator, add moderate antiseptic to the solution (e.g. NaN<sub>3</sub> 0.1%).

**Storage:** The product will be stable for over one year if it be stored at -20°C to -80°C until opened. Upon reconstitution, the antiserum solution must be stored at 2°C to 8°C and used within one month. Repeated freezing- thawing should be avoided.

**Suggested Working Dilution Range:** 1:8,000 for enzyme immunoassay (EIA); 1:6,000 for immunohistochemistry. Optimal dilution should be determined by each laboratory for each application.

**Specificity** (based on EIA): Orexin B (mouse, rat) 100%, Orexin A (bovine, dog, human, mouse, porcine, rat) 0%

**Positive Control** (Immunohistochemistry): Hypothalamus

**Species Tested** (Immunohistochemistry): Mouse

**Related Peptide:** Orexin A (bovine, dog, human, mouse, porcine, rat):

  
Pyr-PLPDCCRQK TCSCRLYELL HGAGNHAAGI LTL-NH<sub>2</sub>

**Related Antiserum:** Anti Orexin A Serum Y450

## **REFERENCES:**

1. T. Sakurai, A. Amemiya et al., Orexins and orexin receptors: a family of hypothalamic neuropeptides and G protein-coupled receptors that regulate feeding behavior. *Cell*, **92**: 573-585, 1998
2. L. Lecea, TS. Kilduff et al., The hypocretins: hypothalamus-specific peptides with neuroexcitatory activity. *Proc. Natl. Acad. Sci. U.S.A.*, **95**:322-327, 1998

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