



## Anti Orexin A Serum

**Cat.No. YII-Y450 -EX**

**Lot No. 1391170127**

**Description:** This antiserum was raised in a rabbit by immunization with porcine thyroglobulin (pTG) conjugate of synthetic orexin A (bovine, dog, human, mouse, porcine, rat) peptide. The product vial contains 50 mL 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 immunoreactions with orexin A (bovine, dog, human, mouse, porcine, rat).

**Immunogen:** Synthetic Orexin A-pTG conjugate

**Host:** Rabbit

**Amino Acid Sequence of Orexin A (bovine<sup>1)</sup>, dog<sup>2)</sup>, human<sup>3)</sup>, mouse<sup>1) 4)</sup>, porcine<sup>5)</sup>, rat<sup>1) 4)</sup>):**

**Product Form:** Lyophilized unpurified serum

**Size:** 50 mL

**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℃ to -80℃ until opened. Upon reconstitution, the antiserum solution must be stored at 2℃ to 8℃ and used within one month. Repeated freezing- thawing should be avoided.

**Suggested Working Dilution Range:** 1:8,000 for enzyme immunoassay (EIA); 1:10,000 for immunohistochemistry. Optimal dilution should be determined by each laboratory for each application.

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

**Positive Control** (Immunohistochemistry): Hypothalamus

**Species Tested** (Immunohistochemistry): Mouse

**Related Peptide:** Orexin B (mouse, rat) RPGPPGLQGR LQRLQANGN HAAGILTM-NH<sub>2</sub>

**Related Antiserum:** Anti Orexin B (mouse, rat) Serum Y451

### REFERENCES:

- 1.T. Sakurai, A. Amemiya et al., Orexins and orexin receptors: a family of hypothalamic neuropeptides and protein-coupled receptors that regulate feeding behavior. *Cell*, **92**: 573-585, 1998
- 2.M. Hungs, J. Fan et al., Identification and functional analysis of mutations in the hypocretin (orexin) genes of narcoleptic canines. *Genome Res.*, **11**: 531-539, 2001
- 3.T. Sakurai, T. Moriguchi et al., Structure and function of human prepro-orexin gene. *J. Biol. Chem.*, **274**: 17771-17776, 1999
- 4.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
- 5.C.J. Dyer, K.J. Touchette et al., Cloning of porcine prepro-orexin cDNA and effects of an intramuscular injection of synthetic porcine orexin-B on feed intake in young pigs. *Domest. Anim. Endocrinol.*, **16**: 145-148,

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DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM



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