



RABBIT ANTI-OREXIN-A POLYCLONAL ANTIBODY

CATALOG NUMBER: AB3098

LOT NUMBER:

QUANTITY: 50 µg

CONCENTRATION: 1.0 mg/mL

SPECIFICITY: Mouse Orexin-A. Several peptides associated with feeding behavior have been reported recently. Orexins (Orexin-A and Orexin-B) are a family of hypothalamic neuropeptides selectively expressed in the hypothalamus (1). Orexin-A and Orexin-B are derived from the same precursor (Prepro-orexin) by proteolytic cleavage. Prepro-orexin is an 130 aa peptide with a putative 33 aa secretory sequence, a hydrophobic core followed by residues with small polar side chains. The expression was detected in brain and to a small extent in testis (1). These neuropeptides bind and activate two closely related Orexin receptors--G protein coupled receptors (GPCRs) OX1R and OX2R.

IMMUNOGEN: An 18 amino acid peptide mapping near the amino terminus of mouse Orexin-A.

APPLICATIONS: Western blot: 1-10 µg/mL using Chemiluminescence technique
Immunohistochemistry: Has not been tested. It is suggested that you use 2-20 µg/mL.
ELISA: 1:10,000 - 100,000 using 50-100 ng of control peptide per well.
Optimal working dilutions must be determined by end user.

SPECIES REACTIVITIES: Mouse. Reactivity to other species has not been determined. The immunogen sequence is identical in human, rat, porcine, ovine, bovine and canine and has 81% homology with chicken.

FORMAT: Affinity purified immunoglobulin.

PRESENTATION: Liquid in PBS with 0.1% BSA.

STORAGE/HANDLING: Maintain frozen at -20°C in undiluted aliquots for up to 6 months after date of receipt. Avoid repeated freeze/thaw cycles.

REFERENCE: Wagner, D. et al., *Sleep Research Online*. (2000) **3**:35-42.

RELATED REFERENCES: 1. Sakurai, T et al. (1998) *Cell*. **92**:573-585.
2. DeLecca, L et al. (1998) *PNAS*. **95**:322-327.

Important Note: During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.



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PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION**

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