



RABBIT ANTI-OREXIN-B POLYCLONAL ANTIBODY

CATALOG NUMBER:	AB3100
LOT NUMBER:	
QUANTITY:	50 µg
CONCENTRATION:	1 mg/mL
SPECIFICITY:	Mouse/Rat Orexin-B. Reacts with full length Orexin-B. The AB3100 epitope is not found in Orexin-A. Since Orexins-A and Orexin-B are derived from an unprocessed pre-pro orexins (130 aa), the anti-Orexin-B antibodies may also react with pre-pro orexins.
BACKGROUND:	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 (1,2). These neuropeptides bind and activate two closely related Orexin receptors--G protein coupled receptors (GPCRs) OX1R and OX2R.
IMMUNOGEN:	A 13 amino acid peptide mapping near the amino terminus of mouse Orexin-B.
APPLICATIONS:	Western blot: 1-10 µg/mL using Chemiluminescence technique Immunohistochemistry: Not tested. It is recommended that the antibody be tried at 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, rat, bovine, porcine and canine. The immunogen peptide has 92% homology with human Orexin-B. Other species have not been tested.
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.
REFERENCES:	Gutierrez, A., et al., <i>Obesity Research</i> (2002) 10 :532-540. Casado, A., et al., <i>Nutritional Neuroscience</i> (2003) 6 :103-111.
RELATED REFERENCES:	Sakurai, T et al. (1998) <i>Cell</i> . 92 :573-585. DeLecca, L et al. (1998) <i>PNAS</i> . 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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28820 Single Oak Drive • Temecula, CA 92590
Technical Support: T: 1-800-MILLIPORE (1-800-645-5476) • F: 1-800-437-7502
www.millipore.com