# Rabbit antibody to Orexin A (14-33): whole serum

**Catalogue No.:** R-104-100  
**Description:** FUNCTION: Neuropeptides that play a significant role in the regulation of food intake and sleep-wakefulness, possibly by coordinating the complex behavioral and physiologic responses of these complementary homeostatic functions. A broader role in the homeostatic regulation of energy metabolism, autonomic function, hormonal balance and the regulation of body fluids, is also suggested. Orexin-A binds to both OX1R and OX2R with a high affinity, whereas orexin-B binds only to OX2R with a similar high affinity. SUBCELLULAR LOCATION: Endoplasmic reticulum; rough endoplasmic reticulum. Associated with perikaryal rough endoplasmic reticulum as well as cytoplasmic large granular vesicles at synapses. SIMILARITY: Belongs to the orexin family.

**Batch No.:** See product label  
**Unit size:** 100 uL  
**Antigen:** A synthetic peptide (CRLYELLHGAGNHAAGILTL) as part of Bovine Orexin A (aa: 14-33) conjugated to KLH has been used as the immunogen.

**Antigen Location:** 14-33 aa  
**Other Names:** Orexin-A; Hypocretin-1; Hcrt1

**Accession:** OREX_BOVIN  
**Produced in:** Rabbit  
**Purity:** Whole serum  
**Applications:** IHC. This is a superb antiserum for immunohistochemistry on Orexin A containing neurons exhibiting intense labelling of neurons with very low back ground. A dilution of 1:1000 to 1:2000 is recommended for this application. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.

**Specificity:** The specificity for this antiserum has been confirmed by immunohistochemistry on rat brain and the results reflect the current literature.

**Cross-reactivity:** This antibody is known to react with rat Orexin A.

**Form:** Lyophilised  
**Reconstitution:** Reconstitute in 100 uL of sterile water. Centrifuge to remove any insoluble material.

**Storage:** Store lyophilized antibody at 2-8°C. After reconstitution keep aliquots at -20°C for a higher stability, and at 2-8°C with an appropriate antibacterial agent. Glycerol (1:1) may be added for an additional stability. Avoid repetitive freeze/thaw cycles.

**Expiry Date:** 12 months after purchase  
**Specific References:**


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References:

Immunohistochemical staining of orexin A in rat zona incerta neurons using Rabbit antibody to Orexin A (14-33): whole serum, catalogue number R-104-100, at a dilution of 1 in 1000.