



BMA BIOMEDICALS



Peninsula Laboratories

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## T-4074

### **Rabbit anti Orexin A (human, bovine, canine, mouse, ovine, porcine, rat) [Uniprot: O43612, P56717, Q9GLF6, O55241, Q95L34, O77668, O55232]**

Orexin A is a 33 amino acid neuropeptide that includes an N-terminal pyroglutamyl residue, C-terminal amidation, and two intramolecular disulfide bridges between Cys<sup>6</sup> – Cys<sup>12</sup>, and between Cys<sup>7</sup> – Cys<sup>14</sup>. Orexins (Orexin A and Orexin B) are produced by proteolytic cleavage of prepro-orexin. They were so named for their stimulatory role in feeding behavior, but also play important functions in the organism's energy homeostasis and sleep cycles. They exert their effects through G-protein coupled receptors.

This antibody was generated by immunization of rabbits with Orexin A coupled to a carrier protein.

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### **TECHNICAL AND ANALYTICAL CHARACTERISTICS**

<b>Lot number:</b>	A15500
<b>Host species:</b>	Rabbit IgG
<b>Quantity:</b>	50µl
<b>Format:</b>	Neat undiluted antiserum, lyophilized, packaged under nitrogen. Reconstitute by adding 50µl distilled water. This will give the equivalent of undiluted antiserum.
<b>Stability:</b>	Original vial: at least one year at 4° - 8°C from date of delivery. Minimize repeated thawing and freezing of the antiserum by freezing aliquots at -20°C or below.
<b>Applications:</b>	This antibody has been tested and validated in ELISA against Orexin A. Other applications like immunohistochemistry (IHC), FACS or Western Blot may work as well. Optimal dilutions should be determined by the end user. Please see <a href="http://www.bma.ch">www.bma.ch</a> for protocols and general information.
<b>Immunogen:</b>	Synthetic peptide Pyr-Pro-Leu-Pro-Asp-Cys-Cys-Arg-Gln-Lys-Thr-Cys-Ser-Cys-Arg-Leu-Tyr-Glu-Leu-Leu-His-Gly-Ala-Gly-Asn-His-Ala-Ala-Gly-Ile-Leu-Thr-Leu-NH <sub>2</sub> , (Disulfide bonds between Cys <sup>6</sup> and Cys <sup>12</sup> /Cys <sup>7</sup> and Cys <sup>14</sup> ), coupled to carrier protein.

**Cross-Reactivity:**

<b>PEPTIDE:</b>	<b>%:</b>
Orexin-A (human, bovine mouse, rat)	100
Orexin-B (human)	18
Orexin-B (mouse, rat)	7.1
NPY (human, rat)	0
$\alpha$ -MSH	0
Leptin (human)	0
Substance P	0
CRF (human, rat)	0

**Related Products:**

S-1146: ELISA, high sensitivity for extracted samples  
T-4073: anti Orexin A, purified IgG  
S-1374: ELISA, extraction-free for serum and plasma samples  
T-4072: anti Orexin A, diluted antiserum

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This product contains no preservative and is intended for laboratory use and research purposes only. Purchase of this product does not include authorization to use it in diagnostic or therapeutic applications.

T-4074

neat antiserum

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