BMA BIOMEDICALS

Peninsula Laboratories

Rabbit anti Orexin A

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^{6} – Cys^{12}, and between Cys^{7} – Cys^{14}. Orexins (Orexin A and Orexin B) are produced by proteolytic cleavage of prepro-orexins. 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.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Catalog Number:	T-4074 (Lot A15500)
Clonality:	Polyclonal
Host species:	Rabbit
Reactivity:	Human, Bovine, Canine, Mouse, Ovine, Porcine, Rat
Quantity:	50 µl
Format:	Neat undiluted antiserum, lyophilized, packaged under nitrogen. Reconstitute by adding 50 µl distilled water. This will give the equivalent of undiluted antiserum.
Stability and Storage:	Original vial: 1 year at 4° - 8°C from date of purchase. Stock solution and aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
Immunogen:	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-NH2, (Disulfide bonds between Cys6 and Cys12/Cys7 and Cys14) coupled to carrier protein.
Protein database:	human-O43612, bovine-P56717, canine-Q9GLF6, mouse-O55241, ovine-Q95L34, porcine-O77668, rat-O55232

Cross-Reactivity:

PEPTIDE:	**%:**
Orexin-A (human, bovine mouse, rat)	100
Orexin-B (human)	18

©2024 BMA BIOMEDICALS, Rheinstrasse 28-32, CH-4302 Augst, Switzerland
Phone: +41 61 811 6222, Email: info@bma.ch, www.bma.ch

Cross-Reactivity:

PEPTIDE:	%:
Orexin-B (mouse, rat)	7.1
NPY (human, rat)	0
α-MSH	0
Leptin (human)	0
Substance P	0
CRF (human, rat)	0

Applications:

Tested in immunohistochemistry (IHC) and ELISA against Orexin A. Other applications like FACS or Western Blot may work as well.
Optimal dilutions should be determined by the end user.

Please see **bma.ch** for protocols and general information.

Approximate working dilution for IHC:
Frozen sections: not tested yet.
Paraffin sections: 1:500; recommended Proteinase K pre-treatment.

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

This product contains no preservative and is intended for laboratory use and research purposes only. Not for diagnostic or therapeutic applications.

©2024 BMA BIOMEDICALS, Rheinstrasse 28-32, CH-4302 Augst, Switzerland
Phone: +41 61 811 6222, Email: info@bma.ch, www.bma.ch