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 Cys6 – Cys12, and between Cys7 – Cys14. 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.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Catalog Number:	T-4072
Clonality:	Polyclonal
Host species:	Rabbit
Reactivity:	Human, bovine, canine, mouse, ovine, porcine, rat
Quantity:	1.0 ml
Format:	Diluted antiserum, lyophilized. This stock solution contains 0.1M sodium phosphate buffer (pH 7.4), 0.05M NaCl, 0.1% BSA, 0.01% NaN3, and 0.1% Triton X-100. Reconstitute by adding 1.0 ml of distilled water.
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-NH_2, (Disulfide bonds between Cys^6 and Cys^{12}/Cys^7 and Cys^{14}), coupled to carrier protein.
Protein database:	human-P01160, bovine-P07501, mouse-P05125, ovine-O46540, pig-P24259, rat-P01161

Cross-Reactivity:

PEPTIDE	%
Orexin-A (human, bovine, mouse, rat)	100
Orexin A (16-33) (human, mouse, rat)	14.8
Hypocretin (28-66) (mouse, rat)	0

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Cross-Reactivity:

PEPTIDE	%
Hypocretin (70-98) (human)	0
Orexin-B (mouse, rat)	0
NPY (human, rat)	0
α-MSH	0
Leptin (human)	0

Applications:

Tested 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 **bma.ch** for protocols and general information.

Related Products:

S-1146: ELISA high sensitivity for extracted samples
S-1374: ELISA extraction-free for human serum and plasma samples
T-4073: Rabbit anti Orexin A, purified IgG
T-4074: Rabbit anti Orexin A, neat antiserum

This product contains sodium azide as a preservative and is intended for laboratory use and research purposes only. Not for diagnostic or therapeutic applications.

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