BMA BIOMEDICALS

Peninsula Laboratories

S-1146

Orexin A (human, bovine, canine, mouse, ovine, porcine, rat) ELISA

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-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 ELISA was developed with serum from rabbits immunized with Orexin A coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Lot number:	A17947
Host species:	Rabbit IgG
Quantity:	96 tests
Format:	Formulated for extracted samples (EIAH type).
Shelf-life:	One year from production date. Store refrigerated at 4° - 8°C.
Applications:	This ELISA has been validated with the included reagents. It is intended to be used with appropriately extracted samples (original protocol III, Std.Ab1hr.Bt). For research use only. Please see **www.bma.ch** for protocols and general information.
Range:	0 - 25ng/ml
Average IC50:	0.33ng/ml
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.

Cross-Reactivity:

PEPTIDE:	%:
Orexin-A (human, bovine mouse, rat)	100
Orexin-B (human)	18
Orexin-B (mouse, rat)	7.1
NPY (human, rat)	0
α-MSH	0

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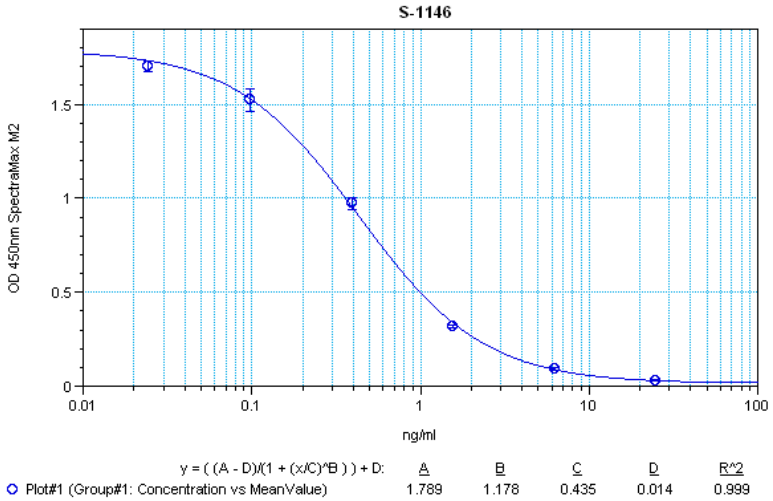
Cross-Reactivity (continued):

PEPTIDE:	%:
Leptin (human)	0
Substance P	0
CRF (human, rat)	0

Typical titration curve of Orexin A in a competitive ELISA with this antibody:



Suggested Preparation of Standards		
	ng/ml	Range: 0.02 to 25ng/ml
Stock	1000	
S1	25.00	Add 25µl Stock + 975µl diluent
S2	6.25	Add 200µl S1 + 600µl diluent
S3	1.56	Add 200µl S2 + 600µl diluent
S4	0.39	Add 200µl S3 + 600µl diluent
S5	0.10	Add 200µl S4 + 600µl diluent
S6	0.02	Add 200µl S5 + 600µl diluent
S0	0.00	500µl diluent

Related Products:

S-1374: ELISA, extraction-free for serum and plasma samples
T-4074: neat antiserum
T-4073: purified IgG
T-4072: diluted antiserum

This product contains Thimerosal as a 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.

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