

ARG81308 Orexin A ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG81308 Orexin A ELISA Kit is an Enzyme Immunoassay kit for the quantification of Orexin A in serum and plasma.
Tested Reactivity	Hu, Ms, Rat, Bov
Tested Application	ELISA
Specificity	Cross Reactivity: Orexin A (Human, Bovine, Mouse, Rat): 100% Orexin A (16-33), Orexin B (Human), Agouti-Related Protein (83-132)-Amide (Human), Neuropeptide (Human, Rat), α -MSH, Leptin (Human): 0%
Target Name	Orexin A
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	0.18 ng/ml
Detection Range	0.18 - 5.6 ng/ml
Sample Type	Serum and plasma
Standard Range	0.01 - 100 ng/ml
Sample Volume	50 μ l
Alternate Names	Hcrt2; Orexin; Hypocretin; PPOX; NRCLP1; Hcrt1; OX; Hcrt; Hypocretin-1; Hypocretin-2

Application Instructions

Assay Time	~ 4 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	HCRT
Gene Full Name	hypocretin (orexin) neuropeptide precursor
Background	This gene encodes a hypothalamic neuropeptide precursor protein that gives rise to two mature neuropeptides, orexin A and orexin B, by proteolytic processing. Orexin A and orexin B, which bind to orphan G-protein coupled receptors HCRT1 and HCRT2, function in the regulation of sleep and

arousal. This neuropeptide arrangement may also play a role in feeding behavior, metabolism, and homeostasis. [provided by RefSeq, Jan 2010]

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. [UniProt]

Highlight

New ELISA data calculation tool:

[Simplify the ELISA analysis by GainData](#)

Related news:

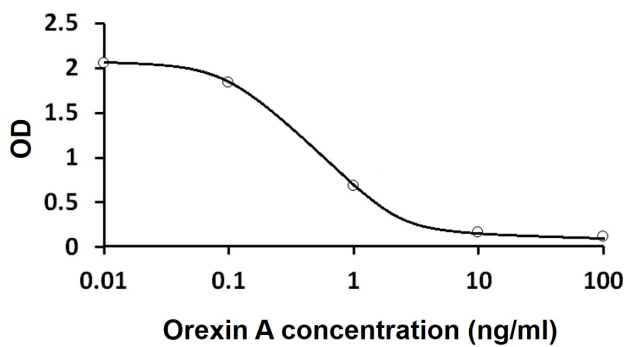
[Studying obesity and appetite control by quantifying orexigenic and anorexigenic hormones:](#)

Related products:

PTM

Specific enzymatic cleavages at paired basic residues yield the different active peptides.

Images



ARG81308 Orexin A ELISA Kit standard curve image

ARG81308 Orexin A ELISA Kit results of a typical standard run with optical density reading at 450 nm.