Orexin B (OX-B) ELISA Kit for Pigeon

PRODUCT OVERVIEW

Product Name	Orexin B (OX-B), ELISA Kit
Full Product Name	Pigeon Orexin B ELISA Kit
Product Gene Name	OX-B elisa kit
Species Reactivity	Pigeon
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	13,363 Da
OMIM	161400
3D Structure	ModBase 3D Structure for O43612
Related Product Information for OX-B elisa kit	MBS079599 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Orexin B (OX-B) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing OX-B. The ELISA analytical biochemical technique of the MBS079599 kit is based on OX-B antibody-OX-B antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect OX-B antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, OX-B. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of OX-B elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OX-B. It may not necessarily be applicable to this product.

NCBI GI #	4557635
NCBI GeneID	3060
NCBI Accession #	NP_001515.1
UniProt Primary Accession #	O43612
UniProt Related Accession #	O43612
GenBank Nucleotide #	NM_001524.1
NCBI Official Full Name	orexin
NCBI Official Synonym Full Names	hypocretin (orexin) neuropeptide precursor
NCBI Official Symbol	HCRT
NCBI Official Synonym Symbols	OX; PPOX; NRCLP1
UniProt Protein Name	Orexin
UniProt Synonym Protein Names	Hypocretin; HcrtCleaved into the following 2 chains:Orexin-A; Alternative name(s):; Hypocretin-1; Hcrt1Orexin-B; Alternative name(s):; Hypocretin-2
UniProt Gene Name	HCRT

UniProt Synonym Gene Names	OX; PPORX; PPOX; Hcrt; Hcrt1; Hcrt2
UniProt Entry Name	OREX_HUMAN
NCBI Protein Information	orexin; prepro-orexin
NCBI Summary for OX-B	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 HCRTR1 and HCRTR2, 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]
UniProt Comments for OX-B	HCRT: 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. Defects in HCRT are the cause of narcolepsy type 1 (NRCLP1). Narcolepsy is a neurological disabling sleep disorder, characterized by excessive daytime sleepiness, sleep fragmentation, symptoms of abnormal rapid-eye-movement (REM) sleep, such as cataplexy, hypnagogic hallucinations, and sleep paralysis. Cataplexy is a sudden loss of muscle tone triggered by emotions, which is the most valuable clinical feature used to diagnose narcolepsy. Human narcolepsy is primarily a sporadically occurring disorder but familial clustering has been observed. Human narcolepsy is associated with a deficient orexin system. Orexins are absent and/or greatly diminished in the brain and cerebrospinal fluid (CSF) of most narcoleptic patients. Belongs to the orexin family. Protein type: Hormone Chromosomal Location of Human Ortholog: 17q21 Cellular Component: synaptic vesicle; rough endoplasmic reticulum; perinuclear region of cytoplasm; extracellular region; cell junction; secretory granule Molecular Function: type 2 hypocretin receptor binding; type 1 hypocretin receptor binding Biological Process: eating behavior; negative regulation of potassium ion transport; regulation of neurotransmitter secretion; synaptic transmission; elevation of cytosolic calcium ion concentration; negative regulation of transmission of nerve impulse; negative regulation of DNA replication; neuropeptide signaling pathway; protein kinase C activation; G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); regulation of excitatory postsynaptic membrane potential; positive regulation of calcium ion transport; positive regulation of transmission of nerve impulse Disease: Narcolepsy 1
Research Articles on OX-B	**1.** presence of CD4(+) T cells that are reactive to HCRT in narcolepsy patients and possible molecular mimicry between HCRT and a similar epitope in influenza pH1N1, pHA1275-287
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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