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Hcrt Antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI14411

Product Information

Application	WB
Primary Accession	O55232
Other Accession	NM_013179, NP_037311
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine, Sheep
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	13645

Additional Information

Gene ID	25723
Alias Symbol	orexin-A
Other Names	Orexin, Hypocretin, Hcrt, Orexin-A, Hypocretin-1, Hcrt1, Orexin-B, Hypocretin-2, Hcrt2, Hcrt, Ox, Ppox
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Hcrt antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Hcrt Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Hcrt {ECO:0000312|RGD:2786}
Synonyms	Ox, Ppox
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 (PubMed:11283317, PubMed:11340621, PubMed:9491897). A broader role in the homeostatic regulation of energy metabolism, autonomic function, hormonal balance and the regulation of body fluids, is also suggested (PubMed:9491897). A modulation effect on luteinizing hormone-releasing hormone (LHRH) secretion also suggests a more minor contribution to the

regulation of reproductive function (PubMed:11340621, PubMed:9879756).

Cellular Location

Rough endoplasmic reticulum. Cytoplasmic vesicle. Synapse Note=Associated with perikaryal rough endoplasmic reticulum as well as cytoplasmic large granular vesicles at synapses

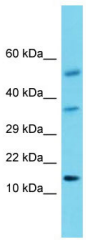
Tissue Location

Mainly expressed in the brain, with expression in neurons in the dorsal lateral hypothalamic area (at protein level) (PubMed:9419374). Produced by a small group of neurons restricted to the lateral and posterior hypothalamus and perifornical areas (PubMed:9491897). Positive neurons project widely throughout the entire neuroaxis (PubMed:9491897). Particularly abundant projections in the cerebral cortex, olfactory bulb, hippocampus, amygdala, septum, diagonal band of Broca, bed nucleus of the stria terminalis, thalamus, anterior and posterior hypothalamus, midbrain, brainstem, and spinal cord (PubMed:9491897). Also expressed in the enteric nervous system and pancreas (PubMed:9491897). In small amount, also detected in the testis (PubMed:9491897).

References

Sakurai T.,et al.Cell 92:573-585(1998).
de Lecea L.,et al.Proc. Natl. Acad. Sci. U.S.A. 95:322-327(1998).
Hungs M.,et al.Bioessays 23:397-408(2001).
Willie J.T.,et al.Annu. Rev. Neurosci. 24:429-458(2001).

Images



Host: Rabbit
Target Name: Hcrt
Sample Tissue: Rat Testis lysates
Antibody Dilution: 1.0µg/ml

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.