

# Hcrt Antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI14411

## Product Information

---

<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">O55232</a>
<b>Other Accession</b>	<a href="#">NM_013179</a> , <a href="#">NP_037311</a>
<b>Reactivity</b>	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine, Sheep
<b>Predicted</b>	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine, Sheep
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	13645

## Additional Information

---

<b>Gene ID</b>	25723
<b>Alias Symbol</b>	orexin-A
<b>Other Names</b>	Orexin, Hypocretin, Hcrt, Orexin-A, Hypocretin-1, Hcrt1, Orexin-B, Hypocretin-2, Hcrt2, Hcrt, Ox, Ppox
<b>Format</b>	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
<b>Reconstitution &amp; Storage</b>	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.
<b>Precautions</b>	Hcrt Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

---

<b>Name</b>	Hcrt {ECO:0000312   RGD:2786}
<b>Synonyms</b>	Ox, Ppox
<b>Function</b>	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: <a href="#">11283317</a> , PubMed: <a href="#">11340621</a> , PubMed: <a href="#">9491897</a> ). A broader role in the homeostatic regulation of energy metabolism, autonomic function, hormonal balance and the regulation of body fluids, is also suggested (PubMed: <a href="#">9491897</a> ). 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'.