10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Hcrt Antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI14411

Specification

Hcrt Antibody - middle region - Product Information

Application	**WB**
Primary Accession	O55232
Other Accession	NM_013179, NP_037311
Reactivity	**Human, Mouse, Rat, Rabbit, Pig, Sheep, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Rabbit, Pig, Sheep, Horse, Bovine, Guinea Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**14kDa KDa**

Hcrt Antibody - middle region - 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.

Hcrt Antibody - middle region - 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:9491897, PubMed:<a

href="http://www.uniprot.org/citations/11340621" target="_blank">11340621, PubMed:11283317). 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:9879756, PubMed:11340621).

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

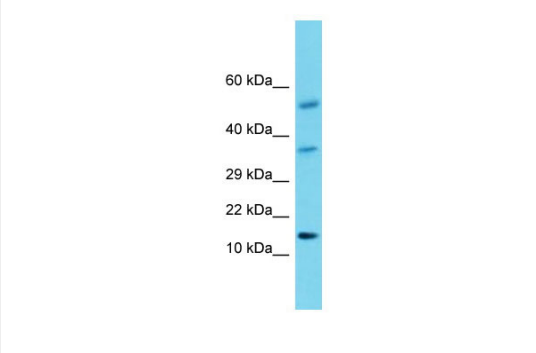
Tissue Location
Mainly expressed in the brain, with expression in neurons in the dorsal lateral hypothalamic area (at protein level) (PubMed:9419374). Produced by a small group of neurons restricted to the lateral and posterior hypothalamus and perifornical areas (PubMed:9491897). Positive neurons project 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).

Hcrt Antibody - middle region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Hcrt Antibody - middle region - Images



Host: Rabbit
Target Name: Hcrt
Sample Tissue: Rat Testis lysates

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Antibody Dilution: 1.0µg/ml

Hcrt Antibody - middle region - 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).