

HCRT / Orexin Antibody

Sheep Polyclonal Antibody Catalog # ALS11216

## Specification

# HCRT / Orexin Antibody - Product Information

Application	
Primary Accession	
Reactivity	
Host	
Clonality	
Calculated MW	

IHC <u>043612</u> Human Sheep Polyclonal 13kDa KDa

## HCRT / Orexin Antibody - Additional Information

Gene ID 3060

**Other Names** Orexin, Hypocretin, Hcrt, Orexin-A, Hypocretin-1, Hcrt1, Orexin-B, Hypocretin-2, Hcrt2, HCRT, OX, PPORX, PPOX

**Target/Specificity** Specific for human orexin A.

**Reconstitution & Storage** +4°C or -20°C, Avoid repeated freezing and thawing.

**Precautions** HCRT / Orexin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## HCRT / Orexin Antibody - Protein Information

Name HCRT (HGNC:4847)

Synonyms OX, PPORX, 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. A broader role in the homeostatic regulation of energy metabolism, autonomic function, hormonal balance and the regulation of body fluids, is also suggested.

### **Cellular Location**

Rough endoplasmic reticulum {ECO:0000250|UniProtKB:055232}. Cytoplasmic vesicle {ECO:0000250|UniProtKB:055232}. Synapse {ECO:0000250|UniProtKB:055232} Note=Associated with perikaryal rough endoplasmic reticulum as well as cytoplasmic large granular vesicles at



synapses {ECO:0000250|UniProtKB:055232}

#### **Tissue Location**

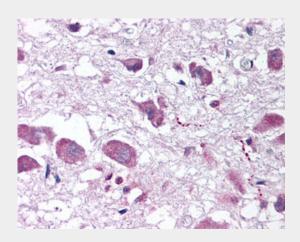
Abundantly expressed in subthalamic nucleus but undetectable in other brain regions tested (hypothalamus was not tested) and in heart, placenta, lung, liver, skeletal muscle, kidney and pancreas.

### HCRT / Orexin Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

### HCRT / Orexin Antibody - Images



Anti-HCRT / Orexin antibody IHC of human brain, hypothalamus.

### HCRT / Orexin Antibody - Background

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.

### HCRT / Orexin Antibody - References

Sakurai T., et al. Cell 92:573-585(1998). Sakurai T., et al.J. Biol. Chem. 274:17771-17776(1999). Lee J.-H., et al. Eur. J. Biochem. 266:831-839(1999). Hungs M., et al. Bioessays 23:397-408(2001). Willie J.T., et al. Annu. Rev. Neurosci. 24:429-458(2001).

