

**HCRT1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP16116c**

**Specification**

**HCRT1 Antibody (Center) - Product Information**

|                   |                                                                                                                                          |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Application       | WB,E                                                                                                                                     |
| Primary Accession | <a href="#">Q43613</a>                                                                                                                   |
| Other Accession   | <a href="#">P56718</a> , <a href="#">P58307</a> ,<br><a href="#">Q0GBZ5</a> ,<br><a href="#">NP_001516.2</a> ,<br><a href="#">O97661</a> |
| Reactivity        | Human                                                                                                                                    |
| Predicted         | Bovine, Mouse,<br>Pig, Rat                                                                                                               |
| Host              | Rabbit                                                                                                                                   |
| Clonality         | Polyclonal                                                                                                                               |
| Isotype           | Rabbit Ig                                                                                                                                |
| Calculated MW     | 47536                                                                                                                                    |
| Antigen Region    | 270-298                                                                                                                                  |

**HCRT1 Antibody (Center) - Additional Information**

**Gene ID** 3061

**Other Names**

Orexin receptor type 1, Ox-1-R, Ox1-R, Ox1R, Hypocretin receptor type 1, HCRT1

**Target/Specificity**

This HCRT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 270-298 amino acids from the Central region of human HCRT1.

**Dilution**

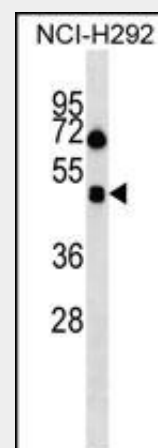
WB~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw



HCRT1 Antibody (Center) (Cat. #AP16116c) western blot analysis in NCI-H292 cell line lysates (35ug/lane). This demonstrates the HCRT1 antibody detected the HCRT1 protein (arrow).

**HCRT1 Antibody (Center) - Background**

The protein encoded by this gene is a G-protein coupled receptor involved in the regulation of feeding behavior. The encoded protein selectively binds the hypothalamic neuropeptide orexin A. A related gene (HCRT2) encodes a G-protein coupled receptor that binds orexin A and orexin B.

**HCRT1 Antibody (Center) - References**

Peltonen, H.M., et al. Biochim. Biophys. Acta 1803(10):1206-1212(2010)  
Saus, E., et al. J Psychiatr Res 44(14):971-978(2010)  
Pinheiro, A.P., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B (5), 1070-1080 (2010) :  
Turunen, P.M., et al. Br. J. Pharmacol. 159(1):212-221(2010)  
El Firar, A., et al. FASEB J. 23(12):4069-4080(2009)

cycles.

**Precautions**

HCRT1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**HCRT1 Antibody (Center) - Protein Information****Name** HCRT1**Function**

Moderately selective excitatory receptor for orexin-A and, with a lower affinity, for orexin-B neuropeptide (PubMed:<a href="http://www.uniprot.org/citations/9491897" target="\_blank">9491897</a>, PubMed:<a href="http://www.uniprot.org/citations/26950369" target="\_blank">26950369</a>). Triggers an increase in cytoplasmic Ca(2+) levels in response to orexin-A binding (PubMed:<a href="http://www.uniprot.org/citations/9491897" target="\_blank">9491897</a>, PubMed:<a href="http://www.uniprot.org/citations/26950369" target="\_blank">26950369</a>).

**Cellular Location**

Cell membrane; Multi-pass membrane protein

**HCRT1 Antibody (Center) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)