

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

HCRT1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O43613
Other Accession	P56718 , P58307 , Q0GBZ5 , NP_001516.2 , O97661
Reactivity	Human
Predicted	Bovine, Mouse, Pig, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
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

E~~Use at an assay dependent concentration.

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 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 ([HGNC:4848](#))

Function Moderately selective excitatory receptor for orexin-A and, with a lower affinity, for orexin-B neuropeptide (PubMed:[26950369](#), PubMed:[9491897](#)). Triggers an increase in cytoplasmic Ca(2+) levels in response to orexin-A binding (PubMed:[26950369](#), PubMed:[9491897](#)).

Cellular Location

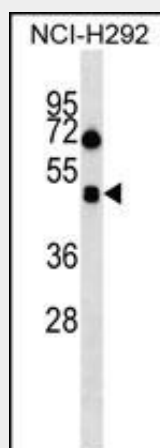
Cell membrane; Multi-pass membrane protein

HCRTR1 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](#)

HCRTR1 Antibody (Center) - Images



HCRTR1 Antibody (Center) (Cat. #AP16116c) western blot analysis in NCI-H292 cell line lysates (35ug/lane). This demonstrates the HCRTR1 antibody detected the HCRTR1 protein (arrow).

HCRTR1 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 (HCRTR2) encodes a G-protein coupled receptor that binds orexin A and orexin B.

HCRTR1 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)