

# **HCRTR1** Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP16116c

#### **Product Information**

Application WB, E Primary Accession 043613

Other Accession <u>P56718</u>, <u>P58307</u>, <u>Q0GBZ5</u>, <u>NP 001516.2</u>

Reactivity Human

**Predicted** Bovine, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Clone Names RB35043
Calculated MW 47536
Antigen Region 270-298

#### **Additional Information**

Gene ID 3061

Other Names Orexin receptor type 1, Ox-1-R, Ox1-R, Ox1R, Hypocretin receptor type 1,

HCRTR1

**Target/Specificity**This HCRTR1 antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 270-298 amino acids from the Central

region of human HCRTR1.

**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** HCRTR1 Antibody (Center) is for research use only and not for use in

diagnostic or therapeutic procedures.

#### **Protein Information**

Name HCRTR1 ( 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

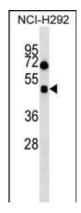
## **Background**

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.

#### 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)

### **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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.