

HCRT2 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16350c

Specification

HCRT2 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O43614
Other Accession	P56719 , P58308 , NP_001517.2 , O62809
Reactivity	Human, Mouse
Predicted	Pig, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	50694
Antigen Region	275-304

HCRT2 Antibody (Center) - Additional Information

Gene ID 3062

Other Names

Orexin receptor type 2, Ox-2-R, Ox2-R, Ox2R, Hypocretin receptor type 2, HCRT2

Target/Specificity

This HCRT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 275-304 amino acids from the Central region of human HCRT2.

Dilution

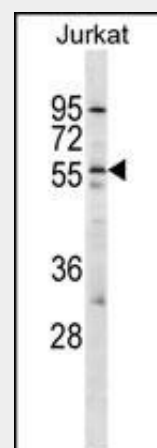
WB~~1:1000

Format

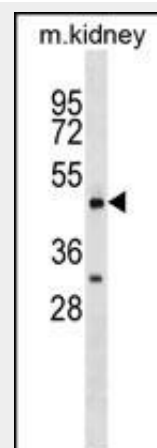
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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 cycles.



HCRT2 Antibody (Center) (Cat. #AP16350c) western blot analysis in Jurkat cell line lysates (35ug/lane). This demonstrates the HCRT2 antibody detected the HCRT2 protein (arrow).



HCRT2 Antibody (Center) (Cat. #AP16350c) western blot analysis in mouse kidney tissue lysates (35ug/lane). This demonstrates the HCRT2 antibody detected the HCRT2 protein (arrow).

Precautions

HCRT2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

HCRT2 Antibody (Center) - Protein Information

Name HCRT2

Function

Nonselective, high-affinity receptor for both orexin-A and orexin-B neuropeptides (PubMed:9491897, PubMed:26950369). Triggers an increase in cytoplasmic Ca(2+) levels in response to orexin-A binding (PubMed:9491897, PubMed:26950369).

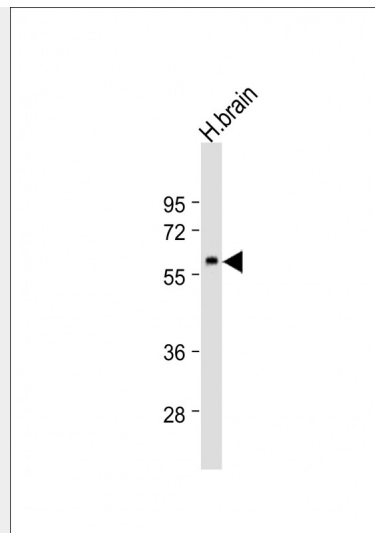
Cellular Location

Cell membrane; Multi-pass membrane protein

HCRT2 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](#)



Anti-HCRT2 Antibody (Center) at 1:1000 dilution + human brain lysate
Lysates/proteins at 20 µg per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 51 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.

HCRT2 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 binds the hypothalamic neuropeptides orexin A and orexin B. A related gene (HCRT1) encodes a G-protein coupled receptor that selectively binds orexin A.

HCRT2 Antibody (Center) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Pinheiro, A.P., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B (5), 1070-1080 (2010) :
Chen, J., et al. Biochem. J. 427(3):377-390(2010)
Fellay, J., et al. PLoS Genet. 5 (12), E1000791 (2009) :
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)