

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 IgG
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

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

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:[26950369](#), PubMed:[9491897](#)). Triggers an increase in cytoplasmic Ca^{2+} levels in response to orexin-A binding (PubMed:[26950369](#), PubMed:[9491897](#)).

Cellular Location

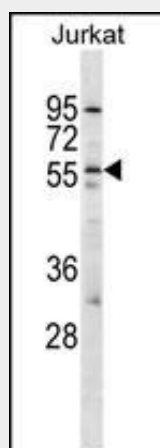
Cell membrane; Multi-pass membrane protein

HCRTR2 Antibody (Center) - Protocols

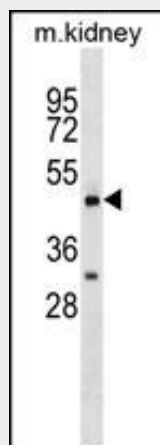
Provided below are standard protocols that you may find useful for product applications.

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

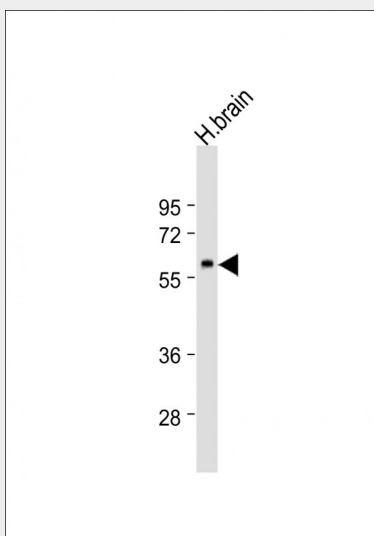
HCRTR2 Antibody (Center) - Images



HCRTR2 Antibody (Center) (Cat. #AP16350c) western blot analysis in Jurkat cell line lysates (35ug/lane). This demonstrates the HCRTR2 antibody detected the HCRTR2 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).



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)