

For Research Use Only

HCRT1 Polyclonal antibody

Catalog Number: 18370-1-AP

9 Publications



Basic Information

Catalog Number:

18370-1-AP

Concentration:

1800 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12269

GenBank Accession Number:

BC074796

GeneID (NCBI):

3061

UNIPROT ID:

O43613

Full Name:

hypocretin (orexin) receptor 1

Calculated MW:

425 aa, 48 kDa

Observed MW:

48-54 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse brain tissue, SH-SY5Y cells

IHC : mouse brain tissue,

Background Information

The hypocretin receptor 1 (OX1R, also named HCRT1) is a G protein-coupled receptor and is a critical participant in the regulation of motivated behavior (PMID:28971565). HCRT1 is associated with the regulation of motivation, reward, and autonomic functions. HCRT1 shows a selective binding affinity for HCRT1/orexin-A. Moreover, HCRT1 and HCRT2 share 64% sequence similarity in humans (PMID:34052813).

Notable Publications

Author	Pubmed ID	Journal	Application
Liang-Hui Zhan	32617111	Evid Based Complement Alternat Med	WB
Pedro P M Scariot	34303768	Brain Res Bull	WB
Hong Gu	35818538	Drug Des Devel Ther	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

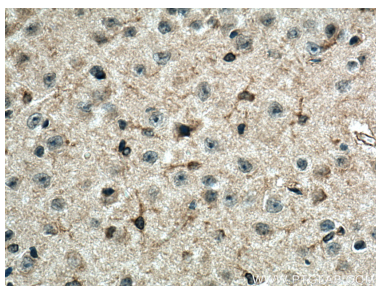
T: 4006900926

E: Proteintech-CN@ptglab.com

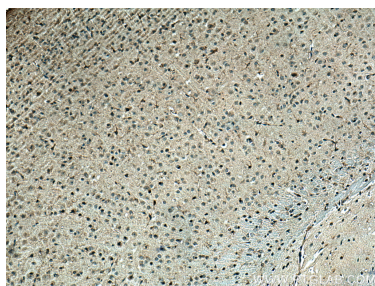
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

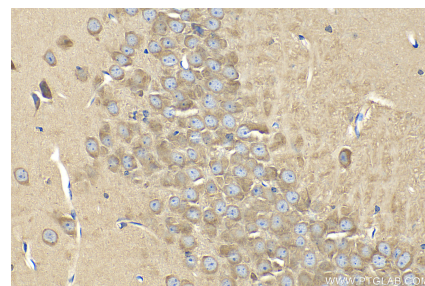
Selected Validation Data



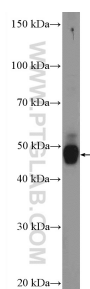
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 18370-1-AP (Orexin receptor 1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 18370-1-AP (Orexin receptor 1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 18370-1-AP (Orexin receptor 1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



mouse brain tissue were subjected to SDS PAGE followed by western blot with 18370-1-AP (Orexin receptor 1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.