

For Research Use Only

HCRT1R Polyclonal antibody

Catalog Number: 18370-1-AP

9 Publications



Basic Information

Catalog Number: 18370-1-AP	GenBank Accession Number: BC074796	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 1800 ug/ml by Nanodrop;	GeneID (NCBI): 3061	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: O43613	
Isotype: IgG	Full Name: hypocretin (orexin) receptor 1	
Immunogen Catalog Number: AG12269	Calculated MW: 425 aa, 48 kDa	
	Observed MW: 48-54 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : mouse brain tissue, SH-SY5Y cells IHC : mouse brain tissue,
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	

Background Information

The hypocretin receptor 1 (OX1R, also named HCRT1R) is a G protein-coupled receptor and is a critical participant in the regulation of motivated behavior (PMID:28971565). HCRT1R is associated with the regulation of motivation, reward, and autonomic functions. HCRT1R shows a selective binding affinity for HCRT1/orexin-A. Moreover, HCRT1R 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

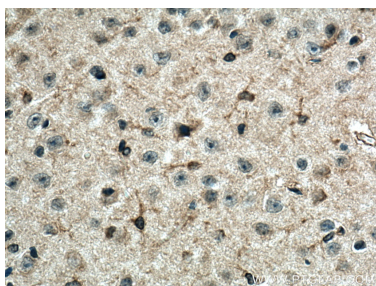
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

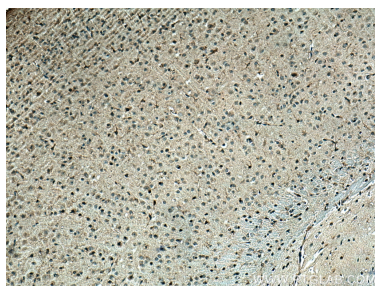
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

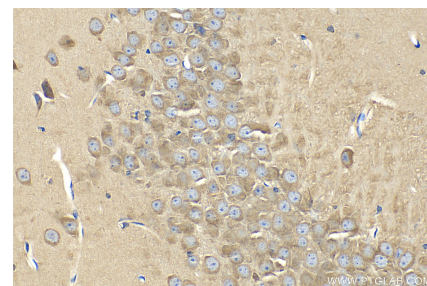
Selected Validation Data



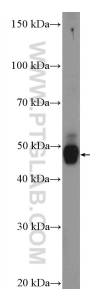
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 18370-1-AP (Orexin receptor 1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.