

For Research Use Only

# HCRTR1 Polyclonal antibody

Catalog Number: 18370-1-AP **7 Publications**



## Basic Information

<b>Catalog Number:</b> 18370-1-AP	<b>GenBank Accession Number:</b> BC074796	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3061	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O43613	
<b>Isotype:</b> IgG	<b>Full Name:</b> hypocretin (orexin) receptor 1	
<b>Immunogen Catalog Number:</b> AG12269	<b>Calculated MW:</b> 425 aa, 48 kDa	
	<b>Observed MW:</b> 48-54 kDa	

## Applications

<b>Tested Applications:</b> WB, FC, IHC, ELISA	<b>Positive Controls:</b> WB : mouse brain tissue, Jurkat cells, mouse pancreas tissue, SH-SY5Y cells IHC : mouse brain tissue,
<b>Cited Applications:</b> WB, IF, IHC	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, rat, mouse	

**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 HCRTR1) is a G protein-coupled receptor and is a critical participant in the regulation of motivated behavior (PMID:28971565). HCRTR1 is associated with the regulation of motivation, reward, and autonomic functions. HCRTR1 shows a selective binding affinity for HCRTR1/orexin-A. Moreover, HCRTR1 and HCRTR2 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

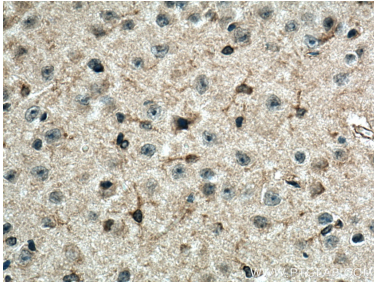
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

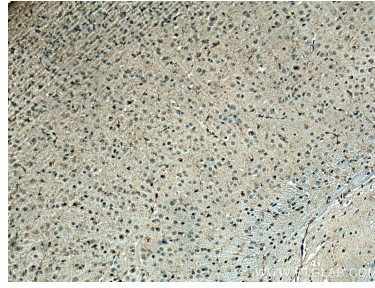
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

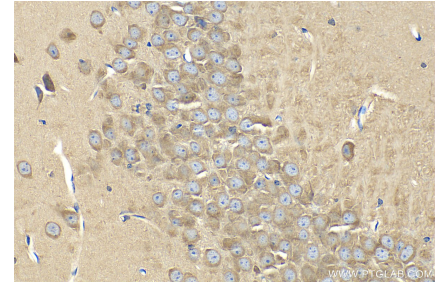
## Selected Validation Data



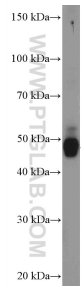
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 18370-1-AP (Orexin receptor 1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



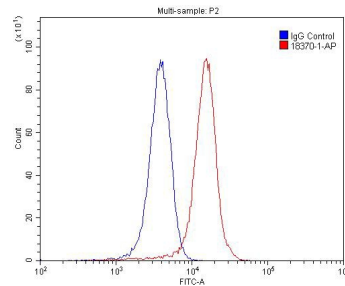
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 18370-1-AP (Orexin receptor 1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.



$1 \times 10^6$  SH-SY5Y cells were stained with 0.2ug Orexin receptor 1 antibody (18370-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.