

For Research Use Only

# HCRT1 Recombinant antibody

Catalog Number: 82921-1-RR



## Basic Information

<b>Catalog Number:</b> 82921-1-RR	<b>GenBank Accession Number:</b> BC074796	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 400 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3061	<b>CloneNo.:</b> 1E18
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O43613	<b>Recommended Dilutions:</b> WB 1:500-1:2000
<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> 54 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : C6 cells,
<b>Species Specificity:</b> human, rat	

## 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).

## Storage

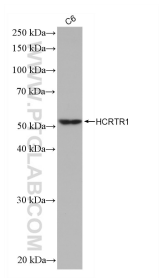
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

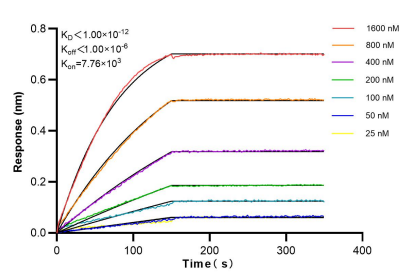
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## Selected Validation Data



C6 cells were subjected to SDS PAGE followed by western blot with 82921-1-RR (HCRTR1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 82921-1-RR against Human HCRTR1 were performed. The affinity constant is below 1 pM.