

## Polyclonal Antibody to HCRTR1 + HCRTR2 - Aff - Purified

<b>Alternate names:</b>	HCRTR1, HCRTR2, Hypocretin receptor type 1, Hypocretin receptor type 2, Orexin receptor type 1, Orexin receptor type 2, Ox1r, Ox2r
<b>Catalog No.:</b>	TA303362
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Host:</b>	Goat
<b>Immunogen:</b>	Peptide with sequence from the internal region of the protein sequence according to NP_001516.2; NP_001517.2. <b>AA Sequence:</b> C-YNFLSGKFRQFK
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction <b>Purification:</b> Ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide <b>Buffer System:</b> Tris saline, 0.02% Sodium Azide, pH~7.3 with 0.5% BSA
<b>Applications:</b>	<b>Peptide ELISA:</b> 1/32000 (Detection Limit). <b>Western blot:</b> 0.3-1 µg/ml. Approx 48kDa band observed in Human Brain (Frontal Cortex), Mouse Brain and Rat Brain lysates (calculated MW of 47.5kDa according to NP_001516.1 and NP_001517.1). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody is expected to recognize both the Human proteins OX1R and OX2R.
<b>Species Reactivity:</b>	<b>Tested:</b> Human, Mouse, Rat. <b>Expected from sequence similarity:</b> Canine, Bovine, Porcine.
<b>Storage:</b>	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Fukunaka Y, Shinkai T, Hwang R, Hori H, Utsunomiya K, Sakata S, et al. The orexin 1 receptor (HCRTR1) gene as a susceptibility gene contributing to polydipsia-hyponatremia in schizophrenia. <i>Neuromolecular Med.</i> 2007;9(4):292-7. Epub 2007 Aug 1. PubMed PMID: 17999203.

Pictures:

TA303362 (0.5µg/ml) staining of Frontal Cortex lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

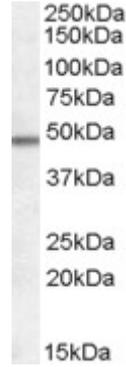
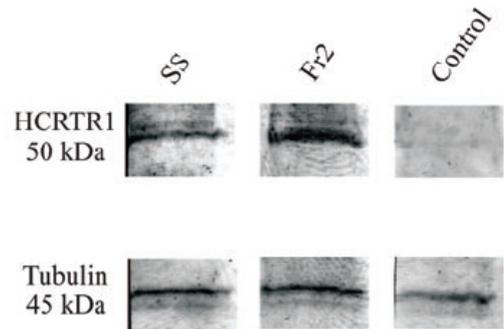


Figure from citation: Western Blot of HCRTR1 protein level by using anti-HCRTR1 antibody in mouse membrane fractions. Dilution: 1:500 View Citation



ICC analysis of HCRTR-1 expression by using anti-HCRTR1 antibody. In layer V of SS (C), the HCRTR-1 granular immunoreactivity was detected at the level of neuronal cell bodies based on morphology (arrows). (C') gives a higher magnification detail of (C). In layer V of Fr2 (D), the HCRTR-1 positive (+) signal was more intense than in SS(arrows and inset in D'), but also in neuropilar processes of different caliber (arrowheads). (D') gives a higher magnification detail of (C). Dilution: 1:150

