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AP16790PU-N Polyclonal Antibody to HCRTR1 + HCRTR2 - Aff - Purified

Alternate names: HCRTR1, HCRTR2, Hypocretin receptor type 1, Hypocretin receptor type 2, Orexin receptor type 1, Orexin receptor type 2, Ox1r, Ox2r

Quantity: 0.1 mg

Concentration: 0.5 mg/ml

Host: Goat

Immunogen: Peptide with sequence from the internal region of the protein sequence according to NP_001516.2; NP_001517.2.
AA Sequence:
C-YNFLSGKFREQFK

Format: **State:** Liquid purified Ig fraction
Purification: Ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide
Buffer System: Tris saline, 0.02% Sodium Azide, pH~7.3 with 0.5% BSA

Applications: **Peptide ELISA:** 1/32000 (Detection Limit).
Western blot: 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.

Specificity: This antibody is expected to recognize both the Human proteins OX1R and OX2R.

Species Reactivity: **Tested:** Human, Mouse, Rat.
Expected from sequence similarity: Canine, Bovine, Porcine.

Storage: 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.

General Readings: 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. Neuromolecular Med. 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.

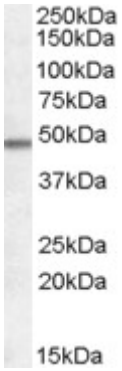
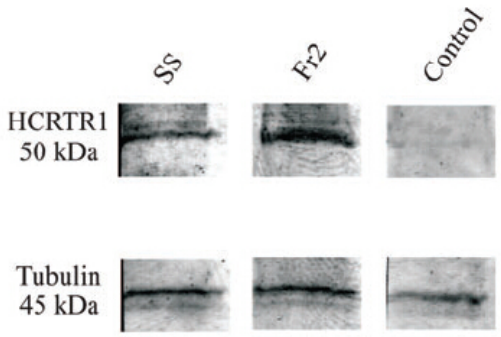


Figure from citation: Western Blot of HCRTR1 protein level by using anti-HCRTR1 antibody in mouse membrane fractions. Dilution: 1:500 View Citation



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