

## Product datasheet for **AP23376PU-N**

### Orexin Receptor 1 (HCRTR1) (C-term) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: At 2µg/ml with the appropriate system to detect Orexin Receptor in cells and tissues. Immunohistochemistry on paraffin sections: At 1-2µg/ml to detect Orexin Receptor in formalin fixed and paraffin embedded tissues.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a sequence at the C-terminal of human Orexin Receptor
Specificity:	This antibody detects Orexin Receptor 1+2 (C-term). No cross reactivity with other proteins.
Formulation:	5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg Na <sub>3</sub> State: Aff - Purified State: Lyophilized Ig fraction
Reconstitution Method:	0.2ml of distilled water will yield a concentration of 500µg/ml.
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	hypocretin receptor 1
Database Link:	<a href="#">Entrez Gene 25593 Rat</a> <a href="#">Entrez Gene 230777 Mouse</a> <a href="#">Entrez Gene 3061 Human</a> <a href="#">O43613</a>



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**Background:**

Orexins are endogenous peptides that activate Orexin Receptor type 1 and type 2, two closely related G-protein coupled receptors. Orexins-A and -B are hypothalamic peptides derived from a precursor called preproorexin and affect the stimulation of food intake. They act on G protein receptors named orexin receptor-1 (OX1R) and orexin receptor-2 (OX2R), respectively. Stimulation of these receptors by orexins causes an increase in intracellular calcium levels in hypothalamic cells in vitro. In vivo, orexins control feeding and may also be involved in modulating sleep-wake cycles and other hypothalamic functions.

**Synonyms:**

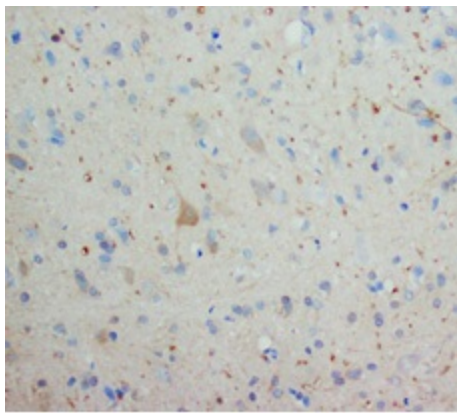
HCRT1, HCRT2, Ox1r, Ox2r

**Protein Families:**

Druggable Genome, ES Cell Differentiation/IPS, GPCR, Transmembrane

**Protein Pathways:**

Neuroactive ligand-receptor interaction

**Product images:**

Immunohistochemistry with Orexin Receptor polyclonal antibody