

Product datasheet for **AP31067PU-N**

Orexin Receptor 1 (HCRTR1) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	Peptide ELISA: Detection Limit: 1/8000. Western Blot: 0.1-0.3 µg/ml. Approx 48+35kDa band observed in Human Brain lysates. The observed molecular weight corresponds to earlier findings in literature with different antibodies (Silveyra et al, Am J Physiol Endocrinol Metab. 2007 Oct;293(4):E977-85; PMID: 17638707).
Reactivity:	Canine, Human, Mouse, Rat, Sheep
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Peptide with sequence from the internal region of the protein sequence according to NP_001516.1.
Specificity:	This antibody detects Orexin receptor 1.
Formulation:	Tris saline, pH 7.3 containing 0.02% Sodium Azide as preservative and 0.5% BSA as stabilizer. State: Aff - Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Ammonium Sulphate Precipitation followed by antigen Affinity Chromatography using the immunizing peptide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for 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:	Entrez Gene 3061 Human O43613



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Background:

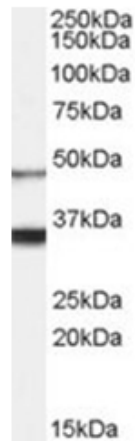
Orexins are endogenous peptides that activate Orexin Receptor type 1 and type 2, two closely related G-protein coupled receptors. Orexins-A and -B are hypothalamic peptides derived from a precursor called preproorexin and affect the stimulation of food intake. They act on G protein receptors named orexin 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:

Hypocretin receptor type 1, HCRTR1, Ox1r

Note:

Predicted Molecular Weight: 47.5kDa (NP_001516.1)

Product images:

HCRTR1 antibody staining of Human Brain lysate at 0.1 ug/ml (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.