

**Goat Anti-Orexin Receptor 2 Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF1757a

### Specification

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### Goat Anti-Orexin Receptor 2 Antibody - Product Information

Application	WB
Primary Accession	<a href="#">O43614</a>
Other Accession	<a href="#">NP_001517</a> , <a href="#">3062</a> , <a href="#">25605 (rat)</a>
Reactivity	Human
Predicted	Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	50694

### Goat Anti-Orexin Receptor 2 Antibody - Additional Information

**Gene ID** 3062

#### Other Names

Orexin receptor type 2, Ox-2-R, Ox2-R, Ox2R, Hypocretin receptor type 2, HCRTR2

#### Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

Goat Anti-Orexin Receptor 2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Goat Anti-Orexin Receptor 2 Antibody - Protein Information

**Name** HCRTR2

#### Function

Nonselective, high-affinity receptor for both orexin-A and orexin-B neuropeptides (PubMed:[26950369](http://www.uniprot.org/citations/26950369), PubMed:[9491897](http://www.uniprot.org/citations/9491897)). Triggers an increase in cytoplasmic Ca(2+) levels in response to orexin-A binding (PubMed:[26950369](http://www.uniprot.org/citations/26950369), PubMed:[9491897](http://www.uniprot.org/citations/9491897)).

### Cellular Location

Cell membrane; Multi-pass membrane protein

### Goat Anti-Orexin Receptor 2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Goat Anti-Orexin Receptor 2 Antibody - Images



AF1757a (1 µg/ml) staining of human brain (hippocampus) lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### Goat Anti-Orexin Receptor 2 Antibody - Background

The protein encoded by this gene is a G-protein coupled receptor involved in the regulation of feeding behavior. The encoded protein binds the hypothalamic neuropeptides orexin A and orexin B. A related gene (HCRTR1) encodes a G-protein coupled receptor that selectively binds orexin A.

### Goat Anti-Orexin Receptor 2 Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

Association study of 182 candidate genes in anorexia nervosa. Pinheiro AP, et al. Am J Med Genet B Neuropsychiatr Genet, 2010 Jul. PMID 20468064.

Genomic organization and regulation of the human orexin (hypocretin) receptor 2 gene: identification of alternative promoters. Chen J, et al. Biochem J, 2010 Apr 14. PMID 20156195.

Common genetic variation and the control of HIV-1 in humans. Fellay J, et al. PLoS Genet, 2009 Dec. PMID 20041166.

Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.