

Goat Anti-OX1R and OX2R Antibody
Peptide-affinity purified goat antibody
Catalog # AF1768a**Specification**

Goat Anti-OX1R and OX2R Antibody - Product Information

Application	WB
Primary Accession	O43613
Other Accession	NP_001517 , 3061 , 3062 , 230777 (mouse) , 25593 (rat)
Reactivity	Human, Mouse, Rat
Predicted	Pig, Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	47536

Goat Anti-OX1R and OX2R Antibody - Additional Information**Gene ID** 3061**Other Names**

Orexin receptor type 1, Ox-1-R, Ox1-R, Ox1R, Hypocretin receptor type 1, HCRTR1

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-OX1R and OX2R Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-OX1R and OX2R Antibody - Protein Information**Name** HCRTR1 ([HGNC:4848](#))**Function**

Moderately selective excitatory receptor for orexin-A and, with a lower affinity, for orexin-B neuropeptide (PubMed:9491897, PubMed:26950369). Triggers an increase in cytoplasmic Ca(2+) levels in response to orexin-A binding (PubMed:9491897)

target="_blank">9491897, PubMed:26950369).

Cellular Location

Cell membrane; Multi-pass membrane protein

Goat Anti-OX1R and OX2R 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-OX1R and OX2R Antibody - Images



AF1768a (0.5 µg/ml) staining of Frontal Cortex lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-OX1R and OX2R Antibody - Background

The protein encoded by this gene is a G-protein coupled receptor involved in the regulation of feeding behavior. The encoded protein selectively binds the hypothalamic neuropeptide orexin A. A related gene (HCRTR2) encodes a G-protein coupled receptor that binds orexin A and orexin B.

Goat Anti-OX1R and OX2R Antibody - References

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

Comprehensive copy number variant (CNV) analysis of neuronal pathways genes in psychiatric disorders identifies rare variants within patients. Saus E, et al. J Psychiatr Res, 2010 Apr 14. PMID 20398908.

Arachidonic acid release mediated by OX1 orexin receptors. Turunen PM, et al. Br J Pharmacol, 2010 Jan. PMID 20002100.

Discovery of a functional immunoreceptor tyrosine-based switch motif in a 7-transmembrane-spanning receptor: role in the orexin receptor OX1R-driven apoptosis. El Firar A,

et al. FASEB J, 2009 Dec. PMID 19661287.

Involvement of TRPC3 channels in calcium oscillations mediated by OX(1) orexin receptors.

Peltonen HM, et al. Biochem Biophys Res Commun, 2009 Jul 31. PMID 19464259.