

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

Goat Anti-OX1R and OX2R Antibody - Product Information

Application	WB, E
Primary Accession	O43613
Other Accession	NP_001517 , 3061 , 3062 , 230777 (mouse) , 25593 (rat)
Reactivity	Human, Mouse, Rat
Predicted	Pig, Dog
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

Dilution

WB~~1:1000

E~~N/A

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:26950369, PubMed:9491897). Triggers an increase in cytoplasmic Ca(2+) levels in response to orexin-A binding (PubMed:26950369, PubMed:9491897).

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.

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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.

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