

OX1R / Orexin Receptor 1 Antibody (Extracellular Domain)
Rabbit Polyclonal Antibody
Catalog # ALS10855**Specification**

OX1R / Orexin Receptor 1 Antibody (Extracellular Domain) - Product Information

Application	IHC-P
Primary Accession	O43613
Reactivity	Human, Rabbit, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48kDa KDa
Dilution	IHC-P~~N/A

OX1R / Orexin Receptor 1 Antibody (Extracellular Domain) - Additional Information**Gene ID** 3061**Other Names**

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

Target/Specificity

Human HCRTR1 / Orexin Receptor 1. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except HCRTR2 (64%).

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

OX1R / Orexin Receptor 1 Antibody (Extracellular Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

OX1R / Orexin Receptor 1 Antibody (Extracellular Domain) - Protein Information**Name** HCRTR1 ([HGNC:4848](#))**Function**

Moderately selective excitatory receptor for orexin-A and, with a lower affinity, for orexin-B neuropeptide (PubMed:<[a href="http://www.uniprot.org/citations/26950369"](http://www.uniprot.org/citations/26950369)>26950369, PubMed:<[a href="http://www.uniprot.org/citations/9491897"](http://www.uniprot.org/citations/9491897)>9491897). Triggers an increase in cytoplasmic Ca(2+) levels in response to orexin-A binding (PubMed:<[a href="http://www.uniprot.org/citations/26950369"](http://www.uniprot.org/citations/26950369)>26950369, PubMed:<[a href="http://www.uniprot.org/citations/9491897"](http://www.uniprot.org/citations/9491897)>9491897).

Cellular Location

Cell membrane; Multi-pass membrane protein

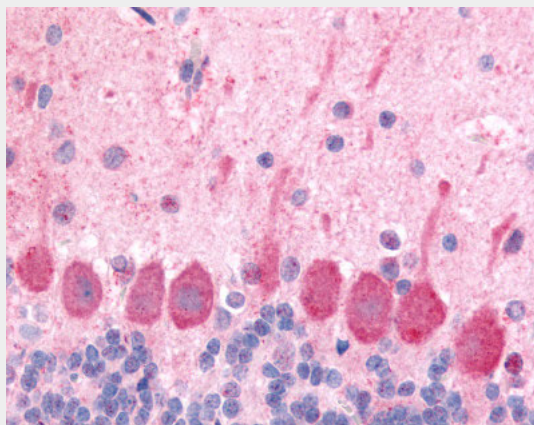
Volume
50 µl

OX1R / Orexin Receptor 1 Antibody (Extracellular Domain) - 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](#)

OX1R / Orexin Receptor 1 Antibody (Extracellular Domain) - Images



Anti-HCRTR1 / Orexin Receptor 1 antibody ALS10855 IHC of rat brain, Purkinje neurons.

OX1R / Orexin Receptor 1 Antibody (Extracellular Domain) - Background

Moderately selective excitatory receptor for orexin-A and, with a lower affinity, for orexin-B neuropeptide. Seems to be exclusively coupled to the G(q) subclass of heteromeric G proteins, which activates the phospholipase C mediated signaling cascade (By similarity).

OX1R / Orexin Receptor 1 Antibody (Extracellular Domain) - References

Sakurai T., et al. Cell 92:573-585(1998).
Peyron C., et al. Nat. Med. 6:991-997(2000).
Olafsdottir B.R., et al. Neurology 57:1896-1899(2001).
Yeager M., et al. Submitted (DEC-2001) to the EMBL/GenBank/DDBJ databases.
Ota T., et al. Nat. Genet. 36:40-45(2004).