

Orexin receptor 1+2 Rabbit pAb

Catalog # AP98304

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	O43613
Other Accession	O43613
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47536
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Orexin receptor 1/2
Epitope Specificity	321-425/444
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the G-protein coupled receptor 1 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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 (HCRT1) encodes a G-protein coupled receptor that selectively binds orexin A. [provided by RefSeq, Jan 2009]

Additional Information

Gene ID	3061
Other Names	ORXR1; OX1R; OXR1; ox-1-R; ox1-R; Hctr1; OX1R_HUMAN; HCRT1; Hypocretin receptor type 1; Orexin receptor type 1 (Ox-1-R Ox1-R Ox1R); OX1R_MOUSE; OX1R_RAT; ORXR2; OX2R; OXR2; OX2aR; OX2bR; mOX2aR; mOX2bR; mOXR2; ox-2-R; ox2-R; OX2R_HUMAN; HCRT2; Hypocretin receptor type 2; OX2R_MOUSE; Mox2r; OX2R_RAT; hypocretin receptor 1; hypocretin (orexin) receptor 1; orexin receptor 1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	HCRT1 (HGNC:4848)
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Function	G protein-coupled receptor that binds the neuropeptide orexin-A with high affinity, and orexin-B with lower affinity, two peptides derived from a common precursor, prepro-orexin (PubMed: 32669442 , PubMed: 9491897). Its activity is mediated via a G(q)- protein-coupled pathway, which activates the phosphatidylinositol- calcium second messenger system in response to orexin-A binding (PubMed: 32669442). In addition to G(q)-mediated signaling, orexin-A stimulation also promotes beta-arrestin recruitment, leading to receptor internalization (PubMed: 15683363 , PubMed: 32669442). Plays a significant role in the regulation of food intake (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein

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