

Orexin Receptor 2 Rabbit pAb

Catalog # AP97437

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	O43614
Other Accession	O43614
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50694
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Orexin Receptor 2
Epitope Specificity	1-100/444
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	3062
Other Names	ORXR2; OX2R; OXR2; OX2aR; OX2bR; mOX2aR; mOX2bR; mOXR2; ox-2-R; ox2-R; OX2R_CANLF; HCRT2; Hypocretin receptor type 2; OX2R_HUMAN; OX2R_MOUSE; Mox2r; OX2R_RAT; hypocretin receptor 2; hypocretin (orexin) receptor 2; orexin receptor 2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,ELISA=1:5000-10000
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	HCRT2 (HGNC:4849)
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Synonyms	ORXR2, OX2R, OXR2
Function	G protein-coupled receptor that binds neuropeptides orexin-A and orexin-B, two neuropeptides derived from a common precursor, prepro-orexin (PubMed: 26950369 , PubMed: 33547286 , PubMed: 35614071 , PubMed: 9491897). Upon neuropeptide ligand binding, HCRT2 can couple with both G(q)/11 and G(i)/o heterotrimeric G proteins thereby initiating distinct downstream signaling cascades (PubMed: 35614071). Involved in regulating the sleep-wake cycle (By similarity). Contributes to central regulation of glucose homeostasis (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein

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