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# Orexin Receptor 2 Rabbit pAb

Catalog # AP97437

## Product Information

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| **Application** | WB, IHC-P, IHC-F, IF, E |
| **Primary Accession** | O43614 |
| **Other Accession** | O43614 |
| **Reactivity** | Mouse |
| **Predicted** | Rat, Pig, Human, Rabbit, Dog, Horse, Sheep |
| **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 (HCRTR1) encodes a G-protein coupled receptor that selectively binds orexin A. [provided by RefSeq, Jan 2009] |

## Additional Information

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| **Gene ID** | 3062 |
| **Other Names** | ORXR2; OX2R; OXR2; OX2aR; OX2bR; mOX2aR; mOX2bR; mOXR2; ox-2-R; ox2-R; OX2R_CANLF; HCRTR2; 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,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

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| **Name** | HCRTR2 ( HGNC:4849) |
| **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, HCRTR2 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 |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.