# OR1D2 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | OR1D2, Polyclonal Antibody |
| **Full Product Name** | OR1D2, CT (OR1D2, OLFR1, Olfactory receptor 1D2, Olfactory receptor 17-4, Olfactory receptor OR17-6, Olfactory receptor-like protein HGMP07E) (MaxLight 550) |
| **Product Gene Name** | anti-OR1D2 antibody |
| **Product Synonym Names** | OR1D2; OLFR1; Olfactory receptor 1D2; Olfactory receptor 17-4; Olfactory receptor OR17-6; Olfactory receptor-like protein HGMP07E |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Specificity** | Recognizes human OR1D2. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Molecular Weight** | 35,240 Da |
| **Chromosome Location** | Chromosome: 17; NC_000017.10 (2995352..2996290, complement). Location: 17p13.3 |
| **OMIM** | 164342 |
| **3D Structure** | ModBase 3D Structure for P34982 |
| **Immunogen** | Synthetic peptide corresponding to a portion of amino acids within aa386-312 of human OR1D2 conjugated to KLH (NP_002539.2). |
| **Conjugate** | MaxLight550 |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-OR1D2 antibody** | Antibodies; Receptors; Olfactory |
| **Applications Tested/Suitable for anti-OR1D2 antibody** | Western Blot (WB) |
| **Application Notes for anti-OR1D2 antibody** | WB: 1:1000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-OR1D2 antibody** | MBS6328169 is an antibody targeting OR1D2. Also known as OR1D2, CT (OR1D2, OLFR1, Olfactory receptor 1D2, Olfactory receptor 17-4, Olfactory receptor OR17-6, Olfactory receptor-like protein HGMP07E) (MaxLight 550). Reactive in Human. Host: Rabbit. |
| **Product References and Citations for anti-OR1D2 antibody** | 1. Neuhaus, E.M., et al., J. Cell. Sci. 119(15): 3047-3056 (2006). 2. Malnic, B., et al., Proc. Natl. Acad. Sci. U.S.A. 101(8): 2584-2589 (2004). 3. Spehr, M., et al., Science 299(5615): 2054-2058 (2003). 4. Fuchs, T., et al., Genomics 80(3): 295-302 (2002). 5. Glusman, G., et al., Genomics 63(2): 227-245 (2000). |

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| **Other Notes** | Small volumes of anti-OR1D2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OR1D2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 289547582 |
| **NCBI GeneID** | 4991 |
| **NCBI Accession #** | NP_002539.2 |
| **UniProt Primary Accession #** | P34982 |
| **UniProt Secondary Accession #** | Q6IFL8; Q96RA4; Q9UM78 |
| **UniProt Related Accession #** | P34982 |
| **GenBank Nucleotide #** | NM_002548.2 |
| **NCBI Official Full Name** | olfactory receptor 1D2 |
| **NCBI Official Synonym Full Names** | olfactory receptor, family 1, subfamily D, member 2 |
| **NCBI Official Symbol** | OR1D2 |
| **NCBI Official Synonym Symbols** | OLFR1; OR17-4 |
| **UniProt Protein Name** | Olfactory receptor 1D2 |
| **UniProt Synonym Protein Names** | Olfactory receptor 17-4; OR17-4; Olfactory receptor OR17-6; Olfactory receptor-like protein HGMP07E |
| **Protein Family** | Olfactory receptor |
| **UniProt Gene Name** | OR1D2 |
| **UniProt Synonym Gene Names** | OLFR1; OR17-4 |
| **UniProt Entry Name** | OR1D2_HUMAN |
| **NCBI Protein Information** | olfactory receptor 1D2; olfactory receptor 17-4; olfactory receptor OR17-6; olfactory receptor-like protein HGMP07E |
| **NCBI Summary for OR1D2** | Olfactory receptors interact with odorant molecules in the nose, to initiate a neuronal response that triggers the perception of a smell. The olfactory receptor proteins are members of a large family of G-protein-coupled receptors (GPCR) arising from single coding-exon genes. Olfactory receptors share a 7-transmembrane domain structure with many neurotransmitter and hormone receptors and are responsible for the recognition and G protein-mediated transduction of odorant signals. The olfactory receptor gene family is the largest in the genome. The nomenclature assigned to the olfactory receptor genes and proteins for this organism is independent of other organisms. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for OR1D2** | OR1D2: Odorant receptor which may be involved in sperm chemotaxis. Bourgeonal is a strong chemoattractant for sperm in vitro and is shown to be a strong agonist for OR1D2 in vitro. May also function in olfactory reception. Belongs to the G-protein coupled receptor 1 family.<br><br>Protein type: Membrane protein, integral; Membrane protein, multi-pass; Receptor, GPCR; GPCR, family 1<br><br>Chromosomal Location of Human Ortholog: 17p13.3<br><br>Cellular Component: integral to plasma membrane; plasma membrane; integral to membrane<br><br>Molecular Function: G-protein coupled receptor activity; olfactory receptor activity<br><br>Biological Process: G-protein coupled receptor protein signaling pathway; protein import into nucleus, translocation; single fertilization; sensory perception of smell; detection of chemical stimulus involved in sensory perception of smell; chemotaxis; cell motility |

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| **Research Articles on OR1D2** | **1.** the homo-oligomerization status of the human OR1740 receptor and its involvement in receptor activation upon odorant ligand binding were addressed |
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