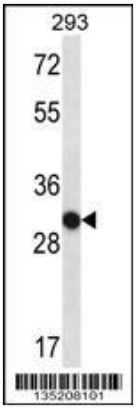
# OR4K14 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | OR4K14, Polyclonal Antibody |
| **Full Product Name** | OR4K14, NT (OR4K14, Olfactory receptor 4K14, Olfactory receptor OR14-22) (FITC) |
| **Product Gene Name** | anti-OR4K14 antibody |
| **Product Synonym Names** | OR4K14; Olfactory receptor 4K14; Olfactory receptor OR14-22 |
| **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 Fluorescein Isothiocyanate (FITC). |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Molecular Weight** | 35,053 Da |
| **Chromosome Location** | Chromosome: 14; NC_000014.8 (20482420..20483352, complement). Location: 14q11.2 |
| **3D Structure** | ModBase 3D Structure for Q8NGD5 |
| **Immunogen** | OR4K14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 63-92 amino acids from the N-terminal region of human OR4K14. |
| **Conjugate** | FITC |
| **Note** | Preservative Free |
| **Special Handling** | Light sensitive |
| **Product Categories/Family for anti-OR4K14 antibody** | Antibodies; Receptors; Olfactory |
| **Applications Tested/Suitable for anti-OR4K14 antibody** | Western Blot (WB), FLISA |
| **Application Notes for anti-OR4K14 antibody** | WB: 1:100-500<br>FLISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-OR4K14 antibody** | 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. |
| **Product References and Citations for anti-OR4K14 antibody** | Malnic, B., et al. Proc. Natl. Acad. Sci. U.S.A. 101(8):2584-2589(2004). Fuchs, T., et al. Genomics 80(3):295-302(2002). |

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| **Other Notes** | Small volumes of anti-OR4K14 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. |
| **Searchable Terms for OR4K14 purchase** | MBS6328792 is an antibody targeting OR4K14. Also known as OR4K14, NT (OR4K14, Olfactory receptor 4K14, Olfactory receptor OR14-22) (FITC). Reactive in Human. Host: Rabbit. |




**Western Blot (WB) of anti-OR4K14 antibody**
OR4K14 Antibody (N-term) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the OR4K14 antibody detected the OR4K14 protein (arrow).

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OR4K14. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 52317249 |
| **NCBI GeneID** | 122740 |
| **NCBI Accession #** | NP_001004712.1 |
| **UniProt Primary Accession #** | Q8NGD5 |
| **UniProt Secondary Accession #** | Q6IEU1; Q96R71 |
| **UniProt Related Accession #** | Q8NGD5 |
| **GenBank Nucleotide #** | NM_001004712.1 |
| **NCBI Official Full Name** | olfactory receptor 4K14 |
| **NCBI Official Synonym Full Names** | olfactory receptor, family 4, subfamily K, member 14 |
| **NCBI Official Symbol** | OR4K14 |
| **NCBI Official Synonym Symbols** | OR14-18; OR14-22 |
| **UniProt Protein Name** | Olfactory receptor 4K14 |
| **UniProt Synonym Protein Names** | Olfactory receptor OR14-22 |
| **Protein Family** | Olfactory receptor |
| **UniProt Gene Name** | OR4K14 |
| **UniProt Entry Name** | OR4KE_HUMAN |
| **NCBI Protein Information** | olfactory receptor 4K14; olfactory receptor OR14-22; olfactory receptor OR14-18 pseudogene |

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| **UniProt Comments for OR4K14** | OR4K14: Odorant receptor (Potential). Belongs to the G-protein coupled receptor 1 family.<br><br>Protein type: Membrane protein, multi-pass; Receptor, GPCR; GPCR, family 1; Membrane protein, integral<br><br>Chromosomal Location of Human Ortholog: 14q11.2<br><br>Cellular Component: integral to membrane; plasma membrane<br><br>Molecular Function: G-protein coupled receptor activity; transmembrane receptor activity; olfactory receptor activity<br><br>Biological Process: G-protein coupled receptor protein signaling pathway; detection of chemical stimulus involved in sensory perception; detection of chemical stimulus involved in sensory perception of smell |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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