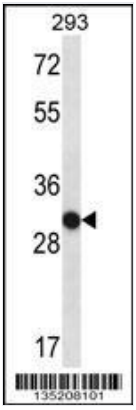
OR4K14 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	OR4K14, Polyclonal Antibody
Full Product Name	OR4K14, NT (OR4K14, Olfactory receptor 4K14, Olfactory receptor OR14-22) (Biotin)
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 Biotin.
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. 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	Biotin
Note	Preservative Free
Product Categories/Family for anti-OR4K14 antibody	Antibodies; Receptors; Olfactory
Applications Tested/Suitable for anti-OR4K14 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-OR4K14 antibody	WB: 1:100-500 ELISA: 1:1,000 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).
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	MBS6328791 is an antibody targeting OR4K14. Also known as OR4K14, NT (OR4K14, Olfactory receptor 4K14, Olfactory receptor OR14-22) (Biotin). 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.

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

UniProt Comments for OR4K14	OR4K14: Odorant receptor (Potential). Belongs to the G-protein coupled receptor 1 family. Protein type: Membrane protein, multi-pass; Receptor, GPCR; GPCR, family 1; Membrane protein, integral Chromosomal Location of Human Ortholog: 14q11.2 Cellular Component: integral to membrane; plasma membrane Molecular Function: G-protein coupled receptor activity; transmembrane receptor activity; olfactory receptor activity 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
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