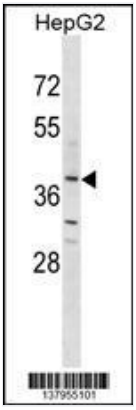
OR2K2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	OR2K2, Polyclonal Antibody
Full Product Name	OR2K2, NT (OR2K2, OR2AR1P, Olfactory receptor 2K2, HTPCRH06, Olfactory receptor OR9-17) (Azide free) (HRP)
Product Gene Name	anti-OR2K2 antibody
Product Synonym Names	OR2K2; OR2AR1P; Olfactory receptor 2K2; HTPCRH06; Olfactory receptor OR9-17
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 Horseradish Peroxidase (HRP).
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. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	38,473 Da
Chromosome Location	Chromosome: 9; NC_000009.11 (114089763..114090713, complement). Location: 9q31.3
3D Structure	ModBase 3D Structure for Q8NGT1
Immunogen	OR2K2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-29 amino acids from the N-terminal region of human OR2K2.
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-OR2K2 antibody	Antibodies; Receptors; Olfactory
Applications Tested/Suitable for anti-OR2K2 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-OR2K2 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-OR2K2 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-OR2K2 antibody	Aloni, R., et al. Genome Biol. 7 (10), R88 (2006): Humphray, S.J., et al. Nature 429(6990):369-374(2004). Malnic, B., et al. Proc. Natl. Acad. Sci. U.S.A. 101(8):2584-2589(2004). Parmentier, M., et al. Nature 355(6359):453-455(1992).

Other Notes	Small volumes of anti-OR2K2 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 OR2K2 purchase	MBS6328430 is an antibody targeting OR2K2. Also known as OR2K2, NT (OR2K2, OR2AR1P, Olfactory receptor 2K2, HTPCRH06, Olfactory receptor OR9-17) (Azide free) (HRP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-OR2K2 antibody
OR2K2 Antibody (N-term) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the OR2K2 antibody detected the OR2K2 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OR2K2. It may not necessarily be applicable to this product.

NCBI GI #	45504346
NCBI GeneID	26248
NCBI Accession #	NP_995581.1
UniProt Primary Accession #	Q8NGT1
UniProt Secondary Accession #	Q2TA61; Q5VYK4; Q6IFI5
UniProt Related Accession #	Q8NGT1
GenBank Nucleotide #	NM_205859.1
NCBI Official Full Name	olfactory receptor 2K2
NCBI Official Synonym Full Names	olfactory receptor, family 2, subfamily K, member 2
NCBI Official Symbol	OR2K2
NCBI Official Synonym Symbols	OR2AN1P; OR2AR1P; HTPCRH06; HSHTPCRH06
UniProt Protein Name	Olfactory receptor 2K2
UniProt Synonym Protein Names	HTPCRH06; Olfactory receptor OR9-17
Protein Family	Olfactory receptor
UniProt Gene Name	OR2K2
UniProt Synonym Gene Names	OR2AR1P
UniProt Entry Name	OR2K2_HUMAN
NCBI Protein Information	olfactory receptor 2K2; olfactory receptor OR9-17; olfactory receptor, family 2, subfamily AN, member 1 pseudogene; olfactory receptor, family 2, subfamily AR, member 1 pseudogene

UniProt Comments for OR2K2	OR2K2: Odorant receptor (Potential). Belongs to the G-protein coupled receptor 1 family. Protein type: Membrane protein, multi-pass; GPCR, family 1; Membrane protein, integral; Receptor, GPCR Chromosomal Location of Human Ortholog: 9q31.3 Cellular Component: integral to membrane; plasma membrane Molecular Function: G-protein coupled receptor activity; olfactory receptor activity Biological Process: G-protein coupled receptor protein signaling pathway; detection of chemical stimulus involved in sensory perception of smell
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