OR2G3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	OR2G3, Polyclonal Antibody
Full Product Name	OR2G3, CT (OR2G3, Olfactory receptor 2G3, Olfactory receptor OR1-33) (MaxLight 405)
Product Gene Name	anti-OR2G3 antibody
Product Synonym Names	OR2G3; Olfactory receptor 2G3; Olfactory receptor OR1-33
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 MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
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: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	34,506 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (247768888..247769817). Location: 1q44
3D Structure	ModBase 3D Structure for Q8NGZ4
Immunogen	OR2G3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 244-272 amino acids from the C-terminal region of human OR2G3.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-OR2G3 antibody	Antibodies; Receptors; Olfactory
Applications Tested/Suitable for anti-OR2G3 antibody	Western Blot (WB), FLISA
Application Notes for anti-OR2G3 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-OR2G3 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-OR2G3 antibody	Malnic, B., et al. Proc. Natl. Acad. Sci. U.S.A. 101(8):2584-2589(2004).

Other Notes	Small volumes of anti-OR2G3 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 OR2G3 purchase	MBS6328398 is an antibody targeting OR2G3. Also known as OR2G3, CT (OR2G3, Olfactory receptor 2G3, Olfactory receptor OR1-33) (MaxLight 405). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OR2G3. It may not necessarily be applicable to this product.

NCBI GI #	50054449
NCBI GeneID	81469
NCBI Accession #	NP_001001914.1
UniProt Primary Accession #	Q8NGZ4
UniProt Secondary Accession #	Q5JQT1; Q6IF45; B2RN64
UniProt Related Accession #	Q8NGZ4
GenBank Nucleotide #	NM_001001914.1
NCBI Official Full Name	olfactory receptor 2G3
NCBI Official Synonym Full Names	olfactory receptor, family 2, subfamily G, member 3
NCBI Official Symbol	OR2G3
NCBI Official Synonym Symbols	OR1-33
UniProt Protein Name	Olfactory receptor 2G3
UniProt Synonym Protein Names	Olfactory receptor OR1-33
Protein Family	Olfactory receptor
UniProt Gene Name	OR2G3
UniProt Entry Name	OR2G3_HUMAN
NCBI Protein Information	olfactory receptor 2G3; olfactory receptor OR1-33
UniProt Comments for OR2G3	OR2G3: Odorant receptor (Potential). Belongs to the G-protein coupled receptor 1 family. Protein type: GPCR, family 1; Receptor, GPCR; Membrane protein, multi-pass; Membrane protein, integral Chromosomal Location of Human Ortholog: 1q44 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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