OR2Y1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	OR2Y1, Polyclonal Antibody
Full Product Name	OR2Y1, CT (OR2Y1, Olfactory receptor 2Y1, Olfactory receptor OR5-2) (MaxLight 750)
Product Gene Name	anti-OR2Y1 antibody
Product Synonym Names	OR2Y1; Olfactory receptor 2Y1; Olfactory receptor OR5-2
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 MaxLight750.
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: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	34,731 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (180166123..180167058, complement). Location: 5q35.3
3D Structure	ModBase 3D Structure for Q8NGV0
Immunogen	OR2Y1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 243-271 amino acids from the C-terminal region of human OR2Y1.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-OR2Y1 antibody	Antibodies; Receptors; Olfactory
Applications Tested/Suitable for anti-OR2Y1 antibody	Western Blot (WB), FLISA
Application Notes for anti-OR2Y1 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-OR2Y1 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-OR2Y1 antibody	Johansson, A., et al. Obesity (Silver Spring) 18(4):803-808(2010). 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-OR2Y1 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 OR2Y1 purchase	MBS6328611 is an antibody targeting OR2Y1. Also known as OR2Y1, CT (OR2Y1, Olfactory receptor 2Y1, Olfactory receptor OR5-2) (MaxLight 750). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OR2Y1. It may not necessarily be applicable to this product.

NCBI GI #	53828670
NCBI GeneID	134083
NCBI Accession #	NP_001001657.1
UniProt Primary Accession #	Q8NGV0
UniProt Secondary Accession #	Q6IFB1; Q96R16; B9EIP1
UniProt Related Accession #	Q8NGV0
GenBank Nucleotide #	NM_001001657.1
NCBI Official Full Name	olfactory receptor 2Y1
NCBI Official Synonym Full Names	olfactory receptor, family 2, subfamily Y, member 1
NCBI Official Symbol	OR2Y1
NCBI Official Synonym Symbols	OR5-2
UniProt Protein Name	Olfactory receptor 2Y1
UniProt Synonym Protein Names	Olfactory receptor OR5-2
Protein Family	Olfactory receptor
UniProt Gene Name	OR2Y1
UniProt Entry Name	OR2Y1_HUMAN
NCBI Protein Information	olfactory receptor 2Y1; olfactory receptor OR5-2
UniProt Comments for OR2Y1	OR2Y1: Odorant receptor (Potential). Belongs to the G-protein coupled receptor 1 family. Protein type: GPCR, family 1; Membrane protein, multi-pass; Membrane protein, integral; Receptor, GPCR Chromosomal Location of Human Ortholog: 5q35.3 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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