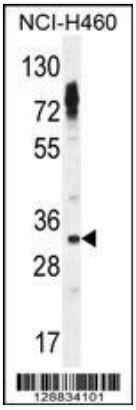
OR2Z1 Antibody – Rabbit Polyclonal

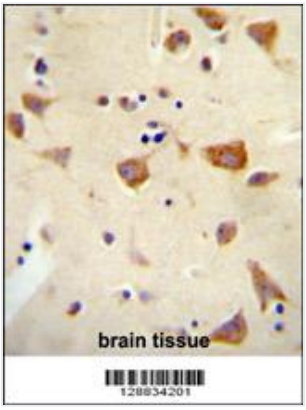
PRODUCT OVERVIEW

Product Name	OR2Z1, Polyclonal Antibody
Full Product Name	OR2Z1, NT (OR2Z1, OR2Z2, Olfactory receptor 2Z1, Olfactory receptor 2Z2, Olfactory receptor OR19-4) (PE)
Product Gene Name	anti-OR2Z1 antibody
Product Synonym Names	OR2Z1; OR2Z2; Olfactory receptor 2Z1; Olfactory receptor 2Z2; Olfactory receptor OR19-4
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 R-Phycoerythrin (PE).
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: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	34,444 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (8841391..8842335). Location: 19p13.2
3D Structure	ModBase 3D Structure for Q8NG97
Immunogen	OR2Z1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 68-96 amino acids from the N-terminal region of human OR2Z1.
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-OR2Z1 antibody	Antibodies; Receptors; Olfactory
Applications Tested/Suitable for anti-OR2Z1 antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-OR2Z1 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-OR2Z1 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-OR2Z1 antibody	Gudbjartsson, D.F., et al. Nat. Genet. 40(5):609-615(2008). 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).

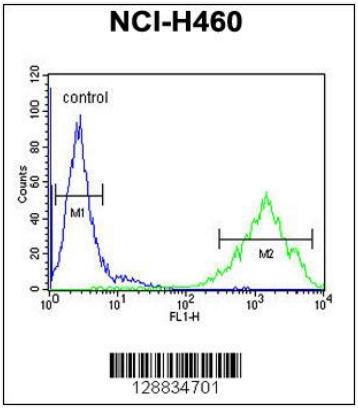
Other Notes	Small volumes of anti-OR2Z1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for OR2Z1 purchase	MBS6328623 is an antibody targeting OR2Z1. Also known as OR2Z1, NT (OR2Z1, OR2Z2, Olfactory receptor 2Z1, Olfactory receptor 2Z2, Olfactory receptor OR19-4) (PE). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-OR2Z1 antibody
OR2Z1 Antibody (N-term) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the OR2Z1 antibody detected the OR2Z1 protein (arrow).



Immunohistochemistry (IHC) of anti-OR2Z1 antibody
OR2Z1 antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the OR2Z1 antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-OR2Z1 antibody
OR2Z1 Antibody (N-term) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OR2Z1. It may not necessarily be applicable to this product.

NCBI GI #	52317227
NCBI GeneID	284383
NCBI Accession #	NP_001004699.1
UniProt Primary Accession #	Q8NG97
UniProt Secondary Accession #	Q6IFK0; Q96R25; B9EH50
UniProt Related Accession #	Q8NG97
GenBank Nucleotide #	NM_001004699.1
NCBI Official Full Name	olfactory receptor 2Z1

NCBI Official Synonym Full Names	olfactory receptor, family 2, subfamily Z, member 1
NCBI Official Symbol	OR2Z1
NCBI Official Synonym Symbols	OR2Z2; OR19-4
UniProt Protein Name	Olfactory receptor 2Z1
UniProt Synonym Protein Names	Olfactory receptor 2Z2; Olfactory receptor OR19-4
Protein Family	Olfactory receptor
UniProt Gene Name	OR2Z1
UniProt Synonym Gene Names	OR2Z2
UniProt Entry Name	OR2Z1_HUMAN
NCBI Protein Information	olfactory receptor 2Z1; olfactory receptor 2Z2; olfactory receptor OR19-4; olfactory receptor, family 2, subfamily Z, member 2
UniProt Comments for OR2Z1	OR2Z1: 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: 19p13.2 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
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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