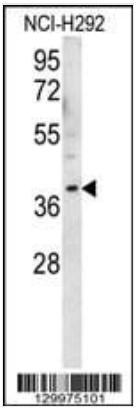
OR2AK2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	OR2AK2, Polyclonal Antibody
Full Product Name	OR2AK2, CT (OR2AK2, OR2AK1P, Olfactory receptor 2AK2, Olfactory receptor 2AK1, Olfactory receptor OR1-47) (Azide free) (HRP)
Product Gene Name	anti-OR2AK2 antibody
Product Synonym Names	OR2AK2; OR2AK1P; Olfactory receptor 2AK2; Olfactory receptor 2AK1; Olfactory receptor OR1-47
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	37,763 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (248128634..248129641). Location: 1q44
3D Structure	ModBase 3D Structure for Q8NG84
Immunogen	OR2AK2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 258-287 amino acids from the C-terminal region of human OR2AK2.
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-OR2AK2 antibody	Antibodies; Receptors; Olfactory
Applications Tested/Suitable for anti-OR2AK2 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-OR2AK2 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-OR2AK2 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-OR2AK2 antibody	Malnic, B., et al. Proc. Natl. Acad. Sci. U.S.A. 101(8):2584-2589(2004).

Other Notes	Small volumes of anti-OR2AK2 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 OR2AK2 purchase	MBS6328331 is an antibody targeting OR2AK2. Also known as OR2AK2, CT (OR2AK2, OR2AK1P, Olfactory receptor 2AK2, Olfactory receptor 2AK1, Olfactory receptor OR1-47) (Azide free) (HRP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-OR2AK2 antibody
OR2AK2 Antibody (C-term) western blot analysis in NCI-H292 cell line lysates (35ug/lane).This demonstrates the OR2AK2 antibody detected the OR2AK2 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OR2AK2. It may not necessarily be applicable to this product.

NCBI GI #	52317190
NCBI GeneID	391191
NCBI Accession #	NP_001004491.1
UniProt Primary Accession #	Q8NG84
UniProt Secondary Accession #	Q6IF05; B2RND1
UniProt Related Accession #	Q8NG84
GenBank Nucleotide #	NM_001004491.1
NCBI Official Full Name	olfactory receptor 2AK2
NCBI Official Synonym Full Names	olfactory receptor, family 2, subfamily AK, member 2
NCBI Official Symbol	OR2AK2
NCBI Official Synonym Symbols	OR1-47; OR2AK1P
UniProt Protein Name	Olfactory receptor 2AK2
UniProt Synonym Protein Names	Olfactory receptor 2AK1; Olfactory receptor OR1-47
Protein Family	Olfactory receptor
UniProt Gene Name	OR2AK2
UniProt Synonym Gene Names	OR2AK1P
UniProt Entry Name	O2AK2_HUMAN
NCBI Protein Information	olfactory receptor 2AK2; olfactory receptor 2AK1; olfactory receptor OR1-47; olfactory receptor, family 2, subfamily AK, member 1 pseudogene

UniProt Comments for OR2AK2	OR2AK2: Odorant receptor (Potential). Belongs to the G-protein coupled receptor 1 family. Protein type: Receptor, GPCR; Membrane protein, integral; Membrane protein, multi-pass; GPCR, family 1 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
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/or2ak2/6328331