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# OR5AN1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12603b

## Product Information

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|---|---|
| **Application** | WB, E |
| **Primary Accession** | Q8NGI8 |
| **Other Accession** | NP_001004729.1 |
| **Reactivity** | Human |
| **Predicted** | Mouse, Rat, Canine |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB32046 |
| **Calculated MW** | 34789 |
| **Antigen Region** | 280-309 |

## Additional Information

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|---|---|
| **Gene ID** | 390195 |
| **Other Names** | Olfactory receptor 5AN1, Olfactory receptor OR11-244, OR5AN1 |
| **Target/Specificity** | This OR5AN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 280-309 amino acids from the C-terminal region of human OR5AN1. |
| **Dilution** | WB~~1:1000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | OR5AN1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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|---|---|
| **Name** | OR5AN1 {ECO:0000303\|PubMed:27098692, ECO:0000312\|HGNC:HGNC:15255} |
| **Function** | Odorant receptor for musk, which specifically recognizes muscone, musk xylol, and musk ketone (PubMed:24361078, PubMed:25901328, |

PubMed:27098692, PubMed:29632183, PubMed:36625229). Has chiral selectivity for (R)- over (S)-muscone (PubMed:29632183). Ligand-binding causes a conformation change that triggers signaling via G(s)-class of G alpha protein GNAL, activating adenylyl cyclase (Probable).

**Cellular Location** Cell membrane; Multi-pass membrane protein

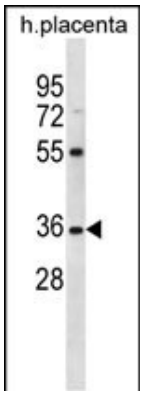
## Background

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.

## References

Malnic, B., et al. Proc. Natl. Acad. Sci. U.S.A. 101(8):2584-2589(2004)

## Images




OR5AN1 Antibody (C-term) (Cat. #AP12603b) western blot analysis in human placenta tissue lysates (35ug/lane).This demonstrates the OR5AN1 antibody detected the OR5AN1 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.