10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# OR10J5 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11275b

## Product Information

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| **Application** | FC, WB, E |
| **Primary Accession** | Q8NHC4 |
| **Other Accession** | NP_001004469.1 |
| **Reactivity** | Human |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB28910 |
| **Calculated MW** | 34401 |
| **Antigen Region** | 243-270 |

## Additional Information

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| **Gene ID** | 127385 |
| **Other Names** | Olfactory receptor 10J5, Olfactory receptor OR1-28, OR10J5 |
| **Target/Specificity** | This OR10J5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 243-270 amino acids from the C-terminal region of human OR10J5. |
| **Dilution** | FC~~1:10~50 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** | OR10J5 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | OR10J5 ( HGNC:14993) |
| **Function** | Olfactory receptor. Activated by the synthetic floral odorant, lyral, and by alpha-cedrene, a sesquiterpene constituent of cedarwood oil. Its activation increases intracellular Ca(2+) (PubMed:25791473, PubMed:28842679). Acts as a key regulator of myogenesis through its actions on cell migration and |

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| | adhesion by activating the Ca(2+)-dependent AKT signal transduction pathway (By similarity). Also acts as a regulator of angiogenesis (PubMed:25791473). Moreover, plays a role in the regulation of lipid accumulation in hepatocytes via the cAMP-PKA pathway (PubMed:28842679). May be involved in sperm chemotaxis and motility (By similarity). |
| **Cellular Location** | Cell membrane; Multi-pass membrane protein |
| **Tissue Location** | Expressed in both the aorta, the coronary artery and umbilical vein endothelial cells (HUVECs) (at protein level) |

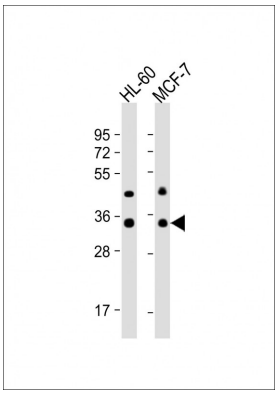
## Background

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.

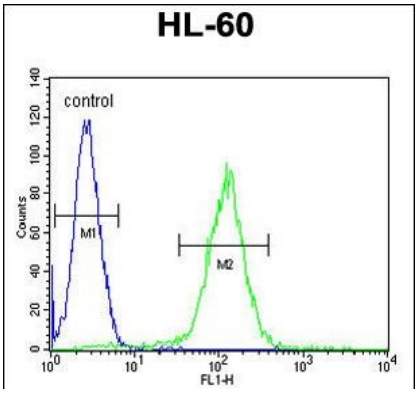
## References

Yang, Q., et al. BMC Med. Genet. 8 SUPPL 1, S12 (2007) :
Malnic, B., et al. Proc. Natl. Acad. Sci. U.S.A. 101(8):2584-2589(2004)
Gilad, Y., et al. Am. J. Hum. Genet. 73(3):489-501(2003)

## Images




All lanes : Anti-OR10J5 Antibody (C-term) at 1:1000 dilution Lane 1: HL-60 whole cell lysate Lane 2: MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 34 kDa Blocking/Dilution buffer: 5% NFDM/TBST.




OR10J5 Antibody (C-term) (Cat. #AP11275b) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.