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OR5AN1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12603b

Product Information

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

Additional Information

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

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). 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

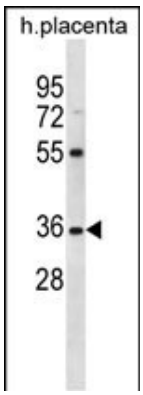
Background

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).