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OR4C12 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14726b

Product Information

Application	WB, E
Primary Accession	Q96R67
Other Accession	NP_001005270.1
Reactivity	Human
Predicted	Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34901
Calculated MW	34491
Antigen Region	281-309

Additional Information

Gene ID	283093
Other Names	Olfactory receptor 4C12, Olfactory receptor OR11-259, OR4C12
Target/Specificity	This OR4C12 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 281-309 amino acids from the C-terminal region of human OR4C12.
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	OR4C12 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	OR4C12
Function	Acts as a receptor for R-(-)-carvone in pancreatic cells, initiating signaling pathways involving GNAS, elevated intracellular Ca(2+), and increased cAMP levels. Upon activation, promotes glucose- stimulated insulin secretion.

Cellular Location Cell membrane; Multi-pass membrane protein.

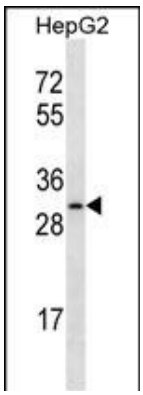
Background

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)
Fuchs, T., et al. Genomics 80(3):295-302(2002)

Images



OR4C12 Antibody (C-term) (Cat. #AP14726b) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the OR4C12 antibody detected the OR4C12 protein (arrow).

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