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

OR5V1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22358b

Product Information

Application	WB, E
Primary Accession	Q9UGF6
Reactivity	Human
Predicted	Human, Bovine
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB49329
Calculated MW	36057

Additional Information

Gene ID	81696
Other Names	Olfactory receptor 5V1, Hs6M1-21, Olfactory receptor OR6-26, OR5V1
Target/Specificity	This OR5V1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 241-274 amino acids from the C-terminal region of human OR5V1.
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	OR5V1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	OR5V1 (HGNC:13972)
Function	G protein-coupled receptor that acts both as an odorant receptor, and as a classical G protein-coupled receptor outside the olfactory epithelium (By similarity). Ligand-binding causes a conformation change that triggers signaling via G(s)-class of G alpha proteins (GNAL/G(olf) or GNAS/G(s)) (By similarity). In olfactory epithelium, activation by methyl

(9R,10E,12E)-9-methoxyoctadeca-10,12- dienoate, a plant odorant isolated from E.fortunei Turcz, promotes coupling to GNAL/G(olf), mediating activation of adenylate cyclase activity and increased production of cAMP, initiating a neuronal response that triggers the perception of a smell (By similarity). Beyond its role in olfaction, also acts as a regulator of glucose metabolism (By similarity). In liver, activation by oxylipin 12(S)- hydroxyeicosapentaenoate (12(S)-HEPE), initiates a signaling that enhances hepatic fatty acid oxidation via PKA-dependent activation of the transcription factor ATF2, which promotes expression of carnitine palmitoyltransferase CPT1A (By similarity). Outside of the olfactory system, in tissues lacking GNAL/G(olf), couples to GNAS/G(s), promoting activation of adenylate cyclase activity and production of cAMP (By similarity).

Cellular Location Cell membrane {ECO:0000250|UniProtKB:A2RT31}; Multi-pass membrane protein {ECO:0000250|UniProtKB:A2RT31}

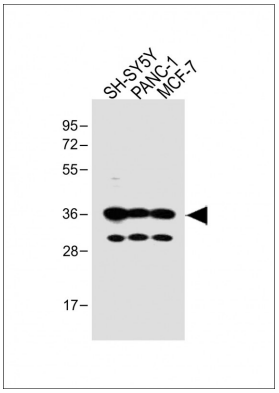
Background

Odorant receptor.

References

Volz A.,et al.J. Biol. Chem. 278:19691-19701(2003).
Mungall A.J.,et al.Nature 425:805-811(2003).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Malnic B.,et al.Proc. Natl. Acad. Sci. U.S.A. 101:2584-2589(2004).
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Images



All lanes : Anti-OR5V1 Antibody (C-term) at 1:1000 dilution Lane 1: SH-SY5Y whole cell lysate Lane 2: PANC-1 whole cell lysate Lane 3: 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 : 36 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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