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OR5V1 Antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15687

Product Information

Application	WB
Primary Accession	Q9UGF6
Other Accession	NM_030876, NP_110503
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	36057

Additional Information

Gene ID	81696
Alias Symbol	6M1-21, hs6M1-21
Other Names	Olfactory receptor 5V1, Hs6M1-21, Olfactory receptor OR6-26, OR5V1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-OR5V1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	OR5V1 Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

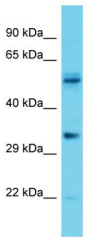
Name	OR5V1 (HGNC:13972)
Function	G protein-coupled receptor that acts both as an odorant receptor, and as a classical G protein-coupled receptor outside the olfactory epithelium (By similarity). Ligand-binding causes a conformation change that triggers signaling via G(s)-class of G alpha proteins (GNAL/G(olf)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

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).
Malnic B.,et al.Proc. Natl. Acad. Sci. U.S.A. 101:7205-7205(2004).

Images



Host: Rabbit
Target Name: OR5V1
Sample Tissue: Jurkat Whole cell lysate
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Antibody Dilution: 1.0µg/ml

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