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

OR51E2 Antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15234

Product Information

Application	WB
Primary Accession	Q9H255
Other Accession	NM_030774, NP_110401
Reactivity	Human, Rat, Rabbit, Dog, Horse
Predicted	Human, Rat, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35493

Additional Information

Gene ID	81285
Alias Symbol	OR51E3P, OR52A2, PSGR
Other Names	Olfactory receptor 51E2, HPRAJ, Olfactory receptor OR11-16, Prostate-specific G-protein coupled receptor, OR51E2, PSGR
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-OR51E2 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	OR51E2 Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

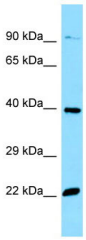
Name	OR51E2 {ECO:0000303|PubMed:36922591, ECO:0000312|HGNC:HGNC:15195}
Function	Olfactory receptor activated by short-chain fatty acids (SCFA), such as acetate and propionate (propanoate), and beta-ionone, a synthetic terpenoid odorant (PubMed:19389702, PubMed:27226631, PubMed:29249973, PubMed:36922591). Ligand-binding causes a conformation change that triggers signaling via G(s)-class of G alpha protein 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 (PubMed:36922591). Beyond its role in olfaction, may also be activated by steroid hormones and regulate cell proliferation (PubMed:19389702).

	Stimulation of OR51E2 by beta- ionone affects melanocyte proliferation, differentiation, and melanogenesis (PubMed:27226631). Activation of OR51E2 by beta-ionone increases proliferation and migration of primary retinal pigment epithelial (RPE) cells (PubMed:29249973). In response to SCFA, may positively regulate renin secretion and increase blood pressure (PubMed:23401498). Activated by L-lactate in glomus cells (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein. Early endosome membrane; Multi-pass membrane protein
Tissue Location	Highly expressed in the prostate (PubMed:11707321). Also expressed in spleen, liver, olfactory epithelium, retinal pigment epithelium and medulla oblongata (PubMed:11707321, PubMed:16491480, PubMed:29249973). In the retinal pigment epithelium expression is restricted to the pigment cells and choroid (at protein level) (PubMed:29249973). Expressed in epidermal melanocytes (at protein level) (PubMed:27226631).

References

Xu L.L.,et al.Cancer Res. 60:6568-6572(2000).
Xia C.,et al.Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases.
Yuan T.T.,et al.Gene 278:41-51(2001).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Images



WB Suggested Anti-OR51E2 Antibody Titration: 1.0 µg/ml
Positive Control: HepG2 Whole Cell

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