

OR51E2 / PSGR Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS10838**Specification****OR51E2 / PSGR Antibody (N-Terminus) - Product Information**

Application	IHC
Primary Accession	Q9H255
Reactivity	Human, Rabbit, Hamster, Monkey, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35kDa KDa

OR51E2 / PSGR Antibody (N-Terminus) - Additional Information**Gene ID** 81285**Other Names**

Olfactory receptor 51E2, HPRAJ, Olfactory receptor OR11-16, Prostate-specific G-protein coupled receptor, OR51E2, PSGR

Target/Specificity

Human OR51E2. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

OR51E2 / PSGR Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

OR51E2 / PSGR Antibody (N-Terminus) - Protein Information**Name** OR51E2 ([HGNC:15195](#))**Function**

Olfactory receptor (PubMed:[27226631](http://www.uniprot.org/citations/27226631), PubMed:[29249973](http://www.uniprot.org/citations/29249973)). Activated by the odorant, beta-ionone, a synthetic terpenoid (PubMed:[19389702](http://www.uniprot.org/citations/19389702), PubMed:[27226631](http://www.uniprot.org/citations/27226631), PubMed:[29249973](http://www.uniprot.org/citations/29249973)). The activity of this receptor is probably mediated by G-proteins leading to the elevation of intracellular Ca(2+), cAMP and activation of the protein kinases PKA and MAPK3/MAPK1 (PubMed:[27226631](http://www.uniprot.org/citations/27226631), PubMed:[29249973](http://www.uniprot.org/citations/29249973)). 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). Activated also by the short-chain fatty acids (SCFA) acetate and propionate. In response to SCFA, may positively regulate renin secretion and increase blood pressure (PubMed:23401498). May also be activated by steroid hormones and regulate cell proliferation (PubMed:19389702). 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).

Volume

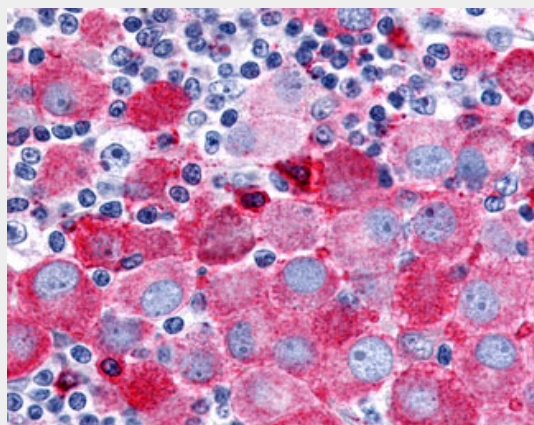
50 µl

OR51E2 / PSGR Antibody (N-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

OR51E2 / PSGR Antibody (N-Terminus) - Images



Anti-OR51E2 / PSGR antibody IHC of human Skin, Melanoma.

OR51E2 / PSGR Antibody (N-Terminus) - Background

Probable G protein-coupled receptor that is activated by the short chain fatty acids (SCFA) acetate and propionate. In response to SCFA, may positively regulate renin secretion and increase blood pressure (PubMed:23401498). May also be activated by steroid hormones and regulate cell proliferation (PubMed:19389702). May also function as an olfactory receptor being activated by beta-ionone (PubMed:19389702).

OR51E2 / PSGR Antibody (N-Terminus) - 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.