

OR51E2 Antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI15234**Specification**

OR51E2 Antibody - C-terminal region - Product Information

Application	WB
Primary Accession	O9H255
Other Accession	NM_030774 , NP_110401
Reactivity	Human, Rat, Rabbit, Horse, Dog
Predicted	Human, Rat, Rabbit, Horse, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35kDa kDa

OR51E2 Antibody - C-terminal region - 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.

OR51E2 Antibody - C-terminal region - Protein Information**Name** OR51E2 ([HGNC:15195](#))**Function**

Olfactory receptor (PubMed:27226631, PubMed:29249973). Activated by the odorant, beta-ionone, a synthetic terpenoid (PubMed:19389702, PubMed:27226631, PubMed: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, PubMed: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

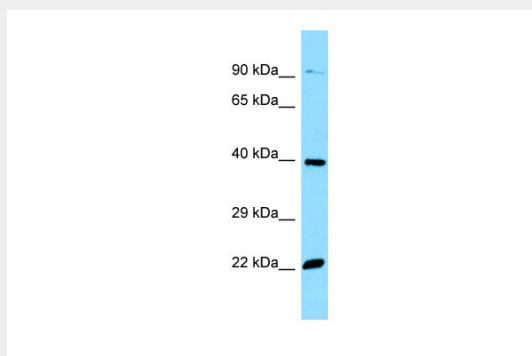
Highly expressed in the prostate (PubMed:11707321). Also expressed in spleen, liver, olfactory epithelium, retinal pigment epithelium and medulla oblongata (PubMed:11707321, PubMed:16491480, PubMed:29249973). In the retinal pigment epithelium expression is restricted to the pigment cells and choroid (at protein level) (PubMed:29249973). Expressed in epidermal melanocytes (at protein level) (PubMed:27226631).

OR51E2 Antibody - C-terminal region - 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 Antibody - C-terminal region - Images



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

OR51E2 Antibody - C-terminal region - 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.