



Rabbit Anti-T2R50 antibody

SL11617R

Product Name:	T2R50
Chinese Name:	味觉受体蛋白家族2亚基50抗体
Alias:	T2R50; T2R50_HUMAN; T2R51; TAS2R50; Taste receptor type 2 member 50; Taste receptor type 2 member 51.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	35kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human GPCR TAS1R3:201-299/299
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The sense of taste is essential for the survival of organisms. For example, the ability to identify sweet-tasting foods enables animals to seek out food with high nutritive value, whereas the ability to identify bitter substances enables them to avoid the ingestion of potentially harmful substances. A family of integral membrane proteins are involved in taste perception and include T1R, which is involved in sweet taste perception and T2R, which is involved in bitter taste perception. Both types of taste receptors couple to

various G proteins to initiate signal transduction cascades. Specifically, T2R50 is expressed in subsets of taste receptor cells of the tongue and exclusively in gustducin-positive cells.

Function:

Receptor that may play a role in the perception of bitterness and is gustducin-linked. May play a role in sensing the chemical composition of the gastrointestinal content. The activity of this receptor may stimulate alpha gustducin, mediate PLC-beta-2 activation and lead to the gating of TRPM5.

Subcellular Location:

Cell membrane. Multi-pass membrane protein.

Tissue Specificity:

Expressed in subsets of taste receptor cells of the tongue and exclusively in gustducin-positive cells.

Similarity:

Belongs to the G-protein coupled receptor T2R family.

SWISS:

P59544

Gene ID:

259296

Database links:

[Entrez Gene: 259296](#)Human

[Omin: 609627](#)Human

[SwissProt: P59544](#)Human

[Unigene: 688194](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.