



Rabbit Anti-T2R38 antibody

SL8650R

Product Name:	T2R38
Chinese Name:	味觉感受器蛋白T2R38抗体
Alias:	PTC; PTC bitter taste receptor; TAS2R38; T2R38; T2R61; taste receptor, type 2, member 38; T2R38_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Chicken,
Applications:	ELISA=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:	38kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human T2R38/TAS2R38:151-250/333<Extracellular>
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, T2R38 is expressed in subsets of taste receptor cells of the tongue and exclusively in gustducin-positive cells. Variations in T2R38 are associated with the ability to taste the bitter chemical phenylthiocarbamide (PTC), also called thiourea tasting.

Function:

TAS2R38 is gustducin-linked and may play a role in the perception of bitterness and 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:

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:

P59533

Gene ID:

5726

Database links:

[Entrez Gene: 5726](#)Human

[Omim: 607751](#)Human

[SwissProt: P59533](#)Human

[Unigene: 647085](#)Human

Important Note:

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

TAS2R38是一种苦味味觉感受器, 该感受器可以尝出苯硫脲和丙硫氧嘧啶或者相关物质的苦味。这一点和大多数苦味感受器有所不同, 即该感受器是对某类物质敏

感, 而大多数感受器则不会表现出强烈的选择性, 能对多种物质做出响应。该感受器所能尝出的相应物质大量存在于西兰花、卷心菜以及其它十字花科Botany中, 例如: 葡萄糖异硫氰酸盐及其相关产物异硫氰酸酯。目前全球人类中, 约有75%该感受器相关基因正常, 即, 可以尝出苦味。而剩下的25%则无法尝出这类的苦味, 或者敏感度较低。