

**TAS2R38 Antibody (C-term) Blocking Peptide**  
Synthetic peptide  
Catalog # BP16929b**Specification**

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**TAS2R38 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [P59533](#)**TAS2R38 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 5726

**Other Names**

Taste receptor type 2 member 38, T2R38, PTC bitter taste receptor, Taste receptor type 2 member 61, T2R61, TAS2R38, PTC

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**TAS2R38 Antibody (C-term) Blocking Peptide - Protein Information**

Name TAS2R38

Synonyms PTC

**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 (By similarity).

**Cellular Location**

Membrane; Multi-pass membrane protein.

**Tissue Location**

Expressed in subsets of taste receptor cells of the tongue and exclusively in gustducin-positive cells. Expressed in testis (PubMed:16720576).

**TAS2R38 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **TAS2R38 Antibody (C-term) Blocking Peptide - Images**

#### **TAS2R38 Antibody (C-term) Blocking Peptide - Background**

This gene encodes a seven-transmembrane G protein-coupled receptor that controls the ability to taste glucosinolates, a family of bitter-tasting compounds found in plants of the Brassicaceae. Synthetic compounds phenylthiocarbamide (PTC) and 6-n-propylthiouracil (PROP) have been identified as ligands for this receptor and have been used to test the genetic diversity of this gene. Although several allelic forms of this gene have been identified worldwide, there are two predominant common forms (taster and non-taster) found outside of Africa. These alleles differ at three nucleotide positions resulting in amino acid changes in the protein (A49P, A262V, and V296I) with the amino acid combination PAV identifying the taster variant (and AVI identifying the non-taster variant).

#### **TAS2R38 Antibody (C-term) Blocking Peptide - References**

Reed, D.R., et al. Hum. Mol. Genet. 19(21):4278-4285(2010) Wendell, S., et al. J. Dent. Res. 89(11):1198-1202(2010) Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Wooding, S., et al. Chem. Senses 35(8):685-692(2010) Mennella, J.A., et al. BMC Genet. 11, 60 (2010) :

#### **TAS2R38 Antibody (C-term) Blocking Peptide - Citations**

- [Loss of CFTR function is associated with reduced bitter taste receptor-stimulated nitric oxide innate immune responses in nasal epithelial cells and macrophages](#)