

**TAS2R31 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16600b****Specification**

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**TAS2R31 Antibody (C-term) Blocking Peptide - Product Information**

Primary Accession [P59538](#)

**TAS2R31 Antibody (C-term) Blocking Peptide - Additional Information**

**Gene ID** 259290

**Other Names**

Taste receptor type 2 member 31, T2R31, Taste receptor type 2 member 44, T2R44, Taste receptor type 2 member 53, T2R53, TAS2R31, TAS2R44

**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.

**TAS2R31 Antibody (C-term) Blocking Peptide - Protein Information**

**Name** TAS2R31

**Synonyms** TAS2R44

**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). Activated by the sulfonyl amide sweeteners saccharin and acesulfame K.

**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

**TAS2R31 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **TAS2R31 Antibody (C-term) Blocking Peptide - Images**

#### **TAS2R31 Antibody (C-term) Blocking Peptide - Background**

TAS2R44 belongs to the large TAS2R receptor family. TAS2Rs are expressed on the surface of taste receptor cells and mediate the perception of bitterness through a G protein-coupled second messenger pathway (Conte et al., 2002 [PubMed 12584440]). For further information on TAS2Rs, see MIM 604791.

#### **TAS2R31 Antibody (C-term) Blocking Peptide - References**

Pronin, A.N., et al. Curr. Biol. 17(16):1403-1408(2007) Fischer, A., et al. Mol. Biol. Evol. 22(3):432-436(2005) Kuhn, C., et al. J. Neurosci. 24(45):10260-10265(2004) Pronin, A.N., et al. Chem. Senses 29(7):583-593(2004) Zhang, Y., et al. Cell 112(3):293-301(2003)