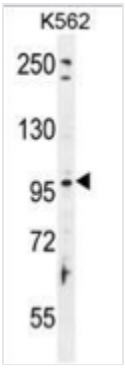
# TAS1R2 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | TAS1R2, Polyclonal Antibody |
| **Full Product Name** | TAS1R2, CT (TAS1R2, GPR71, T1R2, TR2, Taste receptor type 1 member 2, G-protein coupled receptor 71, Sweet taste receptor T1R2) (MaxLight 405) |
| **Product Gene Name** | anti-TAS1R2 antibody |
| **Product Synonym Names** | TAS1R2; GPR71; T1R2; TR2; Taste receptor type 1 member 2; G-protein coupled receptor 71; Sweet taste receptor T1R2 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405. |
| **Purity/Purification** | Purified by Protein A and Peptide Affinity Chromatography. |
| **Specificity** | Recognizes human TAS1R2 at ~95kD. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Molecular Weight** | 95,183 Da |
| **OMIM** | 606226 |
| **3D Structure** | ModBase 3D Structure for Q8TE23 |
| **Immunogen** | KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 691-718 in the C-terminal region of human TAS1R2. UniProt Accession: Q8TE23. Cellular Localization: Cell membrane; Multi-pass membrane protein |
| **Conjugate** | MaxLight405 |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-TAS1R2 antibody** | Antibodies; G Protein Receptors |
| **Applications Tested/Suitable for anti-TAS1R2 antibody** | Western Blot (WB), FLISA |
| **Application Notes for anti-TAS1R2 antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-TAS1R2 antibody** | Putative taste receptor. TAS1R2/TAS1R3 recognizes diverse natural and synthetic sweeteners. |
| **Product References and Citations for anti-TAS1R2 antibody** | 1. Wendell, S., et al. J. Dent. Res. 89(11):1198-1202(2010). 2. Pinheiro, A.P., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B (5), 1070-1080 (2010). 3. Assadi-Porter, F.M., et al. J. Mol. Biol. 398(4):584-599(2010). 4. Chandrashekar, J., et al. Nature 444(7117):288-294(2006). 5. Galindo-Cuspinera, V., et al. Nature 441(7091):354-357(2006). |

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| **Other Notes** | Small volumes of anti-TAS1R2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for TAS1R2 purchase** | MBS6353638 is an antibody targeting TAS1R2. Also known as TAS1R2, CT (TAS1R2, GPR71, T1R2, TR2, Taste receptor type 1 member 2, G-protein coupled receptor 71, Sweet taste receptor T1R2) (MaxLight 405). Reactive in Human. Host: Rabbit. |




**Western Blot (WB) of anti-TAS1R2 antibody**
Western Blot analysis of MBS643481 in K562 cell line lysates (35ug/lane). This demonstrates that MBS643481 detected the TAS1R2 protein (arrow).

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TAS1R2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 112789566 |
| **NCBI GeneID** | 80834 |
| **NCBI Accession #** | NP_689418.2 |
| **UniProt Primary Accession #** | Q8TE23 |
| **UniProt Secondary Accession #** | Q5TZ19 |
| **UniProt Related Accession #** | Q8TE23 |
| **GenBank Nucleotide #** | NM_152232.2 |
| **NCBI Official Full Name** | taste receptor type 1 member 2 |
| **NCBI Official Synonym Full Names** | taste receptor, type 1, member 2 |
| **NCBI Official Symbol** | TAS1R2 |
| **NCBI Official Synonym Symbols** | TR2; T1R2; GPR71 |
| **UniProt Protein Name** | Taste receptor type 1 member 2 |
| **UniProt Synonym Protein Names** | G-protein coupled receptor 71; Sweet taste receptor T1R2 |
| **Protein Family** | Taste receptor |
| **UniProt Gene Name** | TAS1R2 |
| **UniProt Synonym Gene Names** | GPR71; T1R2; TR2 |
| **UniProt Entry Name** | TS1R2_HUMAN |
| **NCBI Protein Information** | taste receptor type 1 member 2; sweet taste receptor T1R2; G protein-coupled receptor 71; G-protein coupled receptor 71 |

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| **UniProt Comments for TAS1R2** | TAS1R2: Putative taste receptor. TAS1R2/TAS1R3 recognizes diverse natural and synthetic sweeteners. Belongs to the G-protein coupled receptor 3 family. TAS1R subfamily.<br><br>Protein type: Membrane protein, integral; GPCR, family 3; Receptor, GPCR; Membrane protein, multi-pass<br><br>Chromosomal Location of Human Ortholog: 1p36.13<br><br>Cellular Component: plasma membrane; integral to membrane; receptor complex<br><br>Molecular Function: protein heterodimerization activity; sweet taste receptor activity; taste receptor activity<br><br>Biological Process: positive regulation of cytokinesis; G-protein coupled receptor protein signaling pathway; sensory perception of sweet taste; detection of chemical stimulus involved in sensory perception of sweet taste |
| **Research Articles on TAS1R2** | **1.** effects of artificial sweeteners on adipose tissue may be largely independent of the classical sweet taste receptors, T1R2 and T1R3 |
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