

TAS2R38 Polyclonal Antibody

Catalog Number OSR00163W

Product data sheet

| Details | | Tested Applications | Dilution * |
|--------------------|--|--|---------------|
| Size | 100 µL | Immunohistochemistry (IHC) | 1:300-1:2,000 |
| Host/Isotope | Rabbit / IgG | Western Blot (WB) | 1:300-1:2,000 |
| Class | Polyclonal | * Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls. | |
| Type | Antibody | | |
| Immunogen | Synthetic peptide from aa region 275-325 of human taste receptor, type 2, member 38. | | |
| Conjugate | Unconjugated | | |
| Form | Lyophilized | | |
| Storage Conditions | Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles. | | |

Product specific information

Glycerol (1:1) may be added for additional stability. Reconstitute in 100 µL of sterile water.

Background/Target Information

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. Expressed in subsets of taste receptor cells of the tongue and exclusively in gustducin-positive cells. Variations in TAS2R38 are associated with the ability to taste phenylthiocarbamide (PTC tasting); also called thiourea tasting. The ability to taste the substance PTC and a number of related substances is genetically controlled. Genetic studies have demonstrated complex inheritance for this trait. For some people (and some chimpanzees also), the chemical PTC tastes very bitter. For others, it is tasteless. Actually, substantial variation in taste sensitivity exists in human. Five haplotypes arising from three coding SNPs in the TAS2R38 gene are associated with distinct phenotypes of PTC taste sensitivity.

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