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T1R3 Polyclonal Antibody

Catalog # AP72685

Product Information

Application	WB, IF, ICC, E
Primary Accession	Q7RTX0
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	93386

Additional Information

Gene ID	83756
Other Names	TAS1R3; T1R3; TR3; Taste receptor type 1 member 3; Sweet taste receptor T1R3
Dilution	WB~~1:1000 IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

Name	TAS1R3
Synonyms	T1R3, TR3
Function	Key component of the sweet and umami taste receptors (PubMed: 11917125, PubMed:40339580, PubMed:40754567, PubMed:40555359). TAS1R1 and TAS1R3 form the umami receptor and respond to the umami taste stimulus (the taste of monosodium glutamate) (PubMed:11917125). TAS1R2 and TAS1R3 form the sweet taste receptor and recognize diverse natural and synthetic sweeteners (PubMed:11917125, PubMed:40339580, PubMed:40754567, PubMed:40555359). The sweet taste receptor has lower affinity for natural sugars than for synthetic sweeteners (PubMed:40339580, PubMed:40555359). Essential for the recognition and response to the disaccharide trehalose (PubMed:12892531). Functions as a G protein-coupled receptor and primarily signals through the gustducin heterotrimer (PubMed:40339580). Sequence differences within and between species can significantly influence the selectivity and specificity of taste responses (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein

Background

Putative taste receptor. TAS1R1/TAS1R3 responds to the umami taste stimulus (the taste of monosodium glutamate). TAS1R2/TAS1R3 recognizes diverse natural and synthetic sweeteners. TAS1R3 is essential for the recognition and response to the disaccharide trehalose (By similarity). Sequence differences within and between species can significantly influence the selectivity and specificity of taste responses.

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