G-Biosciences Image not found or type unknown

Immunotag™ T2R38 Polyclonal Antibody

Antibody Specification

Catalog No.	ITN2688
Product Description	Immunotag™ T2R38 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	T2R38
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Reactive Species	Human,Rat,Mouse
Host Species	Rabbit
Immunogen	Synthesized peptide derived from human protein, at AA range: 180-260
Specificity	T2R38 Polyclonal Antibody detects endogenous levels of protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Gene Name	TAS2R38 PTC
Accession No.	P59533 Q7TQA6 Q4VHE7

Antibody Specification

Description	taste 2 receptor member 38(TAS2R38) Homo sapiens 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 Brassica sp. 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). [provided by RefSeq, Oct 2009],
Cell Pathway/ Category	Taste transduction,
Subcellular Localization	plasma membrane,integral component of membrane,
Protein Function	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.,miscellaneous:Most taste cells may be activated by a limited number of bitter compounds; individual taste cells can discriminate among bitter stimuli.,polymorphism:Variations in TAS2R38 are associated with the ability to taste phenylthiocarbamide (PTC tasting) [MIM:171200]; 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.,similarity:Belongs to the G-protein coupled receptor T2R family.,tissue specificity:Expressed in subsets of taste receptor cells of the tongue and exclusively in gustducin-positive cells.,
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