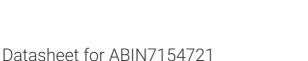
antibodies .- online.com





anti-GNAT3 antibody (AA 2-354) (FITC)



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Quantity:	100 μL
Target:	GNAT3
Binding Specificity:	AA 2-354
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GNAT3 antibody is conjugated to FITC
Application:	Please inquire

Product Details

Immunogen:	Recombinant Human Guanine nucleotide-binding protein G(t) subunit alpha-3 protein (2-354AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	GNAT3
Alternative Name:	GNAT3 (GNAT3 Products)
Background:	Background: Guanine nucleotide-binding protein (G protein) alpha subunit playing a prominent
	role in bitter and sweet taste transduction as well as in umami (monosodium glutamate,

monopotassium glutamate, and inosine monophosphate) taste transduction. Transduction by this alpha subunit involves coupling of specific cell-surface receptors with a cGMPphosphodiesterase, Activation of phosphodiesterase lowers intracellular levels of cAMP and cGMP which may open a cyclic nucleotide-suppressible cation channel leading to influx of calcium, ultimately leading to release of neurotransmitter. Indeed, denatonium and strychnine induce transient reduction in cAMP and cGMP in taste tissue, whereas this decrease is inhibited by GNAT3 antibody. Gustducin heterotrimer transduces response to bitter and sweet compounds via regulation of phosphodiesterase for alpha subunit, as well as via activation of phospholipase C for beta and gamma subunits, with ultimate increase inositol trisphosphate and increase of intracellular Calcium. GNAT3 can functionally couple to taste receptors to transmit intracellular signal: receptor heterodimer TAS1R2/TAS1R3 senses sweetness and TAS1R1/TAS1R3 transduces umami taste, whereas the T2R family GPCRs act as bitter sensors. Functions also as lumenal sugar sensors in the gut to control the expression of the Na+-glucose transporter SGLT1 in response to dietaty sugar, as well as the secretion of Glucagon-like peptide-1, GLP-1 and glucose-dependent insulinotropic polypeptide, GIP. Thus, may modulate the gut capacity to absorb sugars, with implications in malabsorption syndromes and diet-related disorders including diabetes and obesity. Aliases: GDCA antibody, Ggust antibody, Gnat 3 antibody, GNAT3 antibody, GNAT3_HUMAN antibody, Gtn antibody, Guanine nucleotide binding protein alpha transducing 3 antibody, Guanine nucleotide binding protein G(t) subunit alpha 3 antibody, Guanine nucleotide-binding protein G(t) subunit alpha-3 antibody, Gustducin alpha 3 antibody, Gustducin alpha 3 chain antibody, Gustducin alpha-3 chain antibody

UniProt: A8MTJ3

Peptide Hormone Metabolism, G-protein mediated Events, Phototransduction

Application Details

Restrictions: For Research Use only

Handling

Pathways:

Format:

Buffer:
Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative:
ProClin

Handling

Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.