

RGS21 Antibody

Catalog # ASC10918

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q2M5E4
Other Accession	NP_001034241 , 85540441
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	17671
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	RGS21 antibody can be used for detection of RGS21 by Western blot at 0.5 μ g/mL. Antibody can also be used for immunocytochemistry starting at 2.5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	431704
Other Names	Regulator of G-protein signaling 21, RGS21, RGS21
Target/Specificity	RGS21;
Reconstitution & Storage	RGS21 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	RGS21 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RGS21
Function	Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form.
Tissue Location	Expressed ubiquitously.

Background

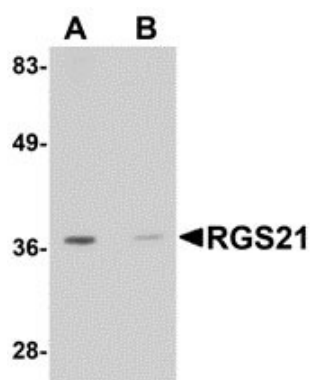
RGS21 Antibody: Regulator of G-protein signaling (RGS) proteins contain an 120 amino acid conserved

domain, termed the RGS domain, that acts as a GTPase-activating protein that acts to reduce the signal transmitted by the receptor-activated G-alpha subunit. RGS21 is a recently identified member of this family that has been reported to be selectively expressed in subpopulations of taste bud cells and co-expressed with bitter and sweet transduction components such as alpha-gusticin, phospholipase Cbeta2, T1R2/T1R3 sweet taste receptors and T2R bitter taste receptors. Other reports indicate that RGS21 is more widely expressed. Binding assays demonstrate that RGS21 binds alpha-gusticin in a conformation-dependent manner and may do the same with T1R receptors, suggesting that RGS21 may play a role in sweet and bitter taste transduction processes.

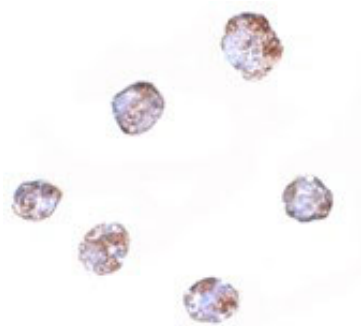
References

- De Vries L, Mousli M, Wurmser A, et al. GAIP, a protein that specifically interacts with the G protein G alpha i3, is a member of a protein family with a highly conserved core domain. *Proc. Natl. Acad. Sci. USA*1995; 92:11916-20.
- Berman DM, Wilkie TM, and Gilman AG. GAIP and RGS4 are GTP-ase activating proteins for the Gi subfamily of G protein alpha subunits. *Cell*1996; 86:445-52.
- von Bucholtz L, Elischer A, Tareilus E, et al. RGS21 is a novel regulator of G protein signalling selectively expressed in subpopulations of taste bud cells. *Eur. J. Neurosci.*2004; 19:1535-44.
- Li X, Chen L, Ji C, et al. Isolation and expression pattern of RGS21 gene, a novel RGS member. *Acta Biochim. Pol.*2005; 52:943-6.

Images

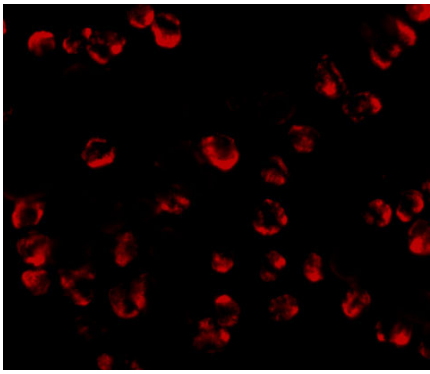


Western blot analysis of RGS21 in HepG2 cell lysate with RGS21 antibody at 0.5 µg/mL in (A) the absence and (B) the presence of blocking peptide.



Immunocytochemistry of RGS21 in HepG2 cells with RGS21 antibody at 2.5 µg/mL.

Immunofluorescence of RGS21 in HepG2 cells with RGS21 antibody at 20 µg/mL.



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