10320 Camino Santa Fe, Suite G
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RGS21 Antibody
Catalog # ASC10918

Specification

RGS21 Antibody - Product Information

Application	**WB, ICC, IF**
Primary Accession	Q2M5E4
Other Accession	NP_001034241, 85540441
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**RGS21 antibody can be used for detection of RGS21 by Western blot at 0.5 µg/mL. Antibody can also be used for immunocytochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.**

RGS21 Antibody - Additional Information

Gene ID	**431704**

Target/Specificity
RGS21;

Reconstitution & Storage
RGS21 antibody can be stored at 4℃ for three months and -20℃, 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.

RGS21 Antibody - 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.

RGS21 Antibody - Protocols

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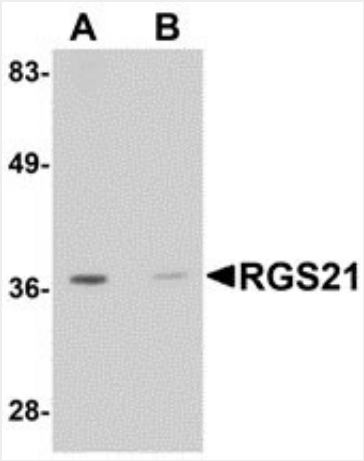
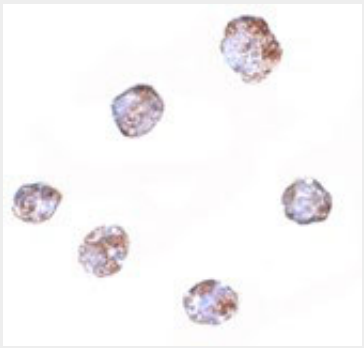
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RGS21 Antibody - 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.

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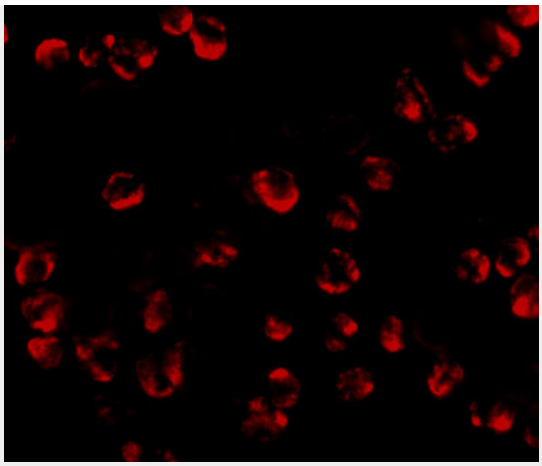

Immunofluorescence of RGS21 in HepG2 cells with RGS21 antibody at 20 µg/mL.

RGS21 Antibody - 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.

RGS21 Antibody - 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. USA1995; 92:11916-20.
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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.