

Anti-RGS9 Antibody

Catalog # ABO11551

Specification

Anti-RGS9 Antibody - Product Information

Application WB
Primary Accession O75916
Host Rabbit

Reactivity Human, Mouse, Rat

Clonality Polyclonal Lyophilized

Description

Rabbit IgG polyclonal antibody for Regulator of G-protein signaling 9(RGS9) detection. Tested with WB in Human; Mouse; Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-RGS9 Antibody - Additional Information

Gene ID 8787

Other Names

Regulator of G-protein signaling 9, RGS9, RGS9

Calculated MW

76966 MW KDa

Application Details

Western blot, 0.1-0.5 μg/ml, Human, Mouse, Rat

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Subcellular Localization

Isoform 3: Membrane; Peripheral membrane protein. Isoform 3 is targeted to the membrane via its interaction with RGS9BP. .

Tissue Specificity

Highly expressed in the caudate and putamen, lower levels found in the hypothalamus and nucleus accumbens and very low levels in cerebellum. Not expressed in globus pallidus or cingulate cortex. Isoform 2 is expressed predominantly in pineal gland and retina. Isoform 3 is expressed in retina (abundant in photoreceptors).

Protein Name

Regulator of G-protein signaling 9

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human RGS9(624-638aa



LKSKRVANFFQIKMD), different from the related mouse and rat sequences by three amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence SimilaritiesContains 1 DEP domain.

Anti-RGS9 Antibody - Protein Information

Name RGS9

Function

Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. Binds to GNAT1. Involved in phototransduction; key element in the recovery phase of visual transduction (By similarity).

Cellular Location

[Isoform 3]: Membrane; Peripheral membrane protein. Note=Isoform 3 is targeted to the membrane via its interaction with RGS9BP.

Tissue Location

Highly expressed in the caudate and putamen, lower levels found in the hypothalamus and nucleus accumbens and very low levels in cerebellum. Not expressed in globus pallidus or cingulate cortex. Isoform 2 is expressed predominantly in pineal gland and retina. Isoform 3 is expressed in retina (abundant in photoreceptors)

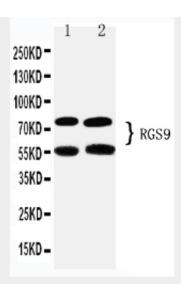
Anti-RGS9 Antibody - Protocols

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

Anti-RGS9 Antibody - Images





Anti-RGS9 antibody, ABO11551, Western blottingLane 1: Rat Brain Tissue LysateLane 2: Mouse Brain Tissue Lysate

Anti-RGS9 Antibody - Background

Regulator of G-protein signaling 9, also known as RGS9 is a human gene, which codes for a protein involved in regulation of signal transduction inside cells. This gene is mapped to 17q24.1. This gene encodes a member of the RGS family of GTPase activating proteins that function in various signaling pathways by accelerating the deactivation of G proteins. This protein is anchored to photoreceptor membranes in retinal cells and deactivates G proteins in the rod and cone phototransduction cascades. Mutations in this gene result in bradyopsia. Multiple transcript variants encoding different isoforms have been found for this gene.