

**Anti-RGS9 Antibody**  
**Catalog # ABO11551****Specification**

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**Anti-RGS9 Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">O75916</a> |
| Host              | Rabbit                 |
| Reactivity        | Human, Mouse, Rat      |
| Clonality         | Polyclonal             |
| Format            | 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<br>

**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 Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**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 reconstitution, 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 Similarities**

Contains 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.

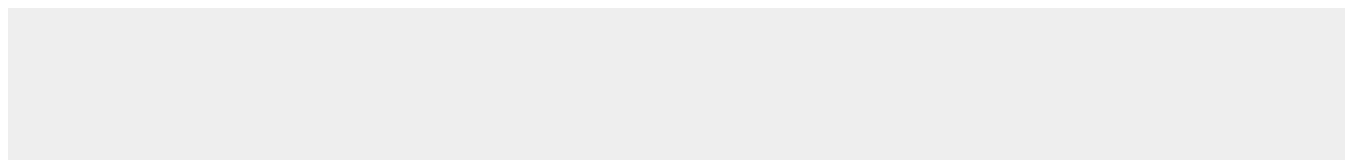
**Tissue Location**

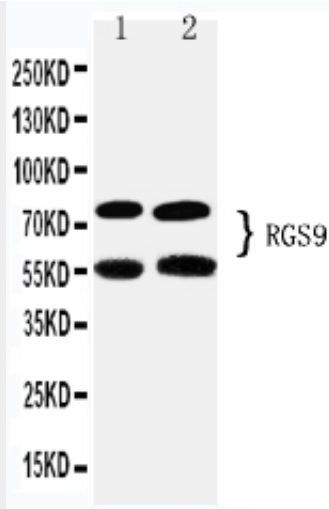
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**Anti-RGS9 Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-RGS9 Antibody - Images**



Anti-RGS9 antibody, ABO11551, Western blotting Lane 1: Rat Brain Tissue Lysate Lane 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.