

RGS9 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP14236a**Specification****RGS9 Antibody (N-term) Blocking Peptide -
Product Information**Primary Accession [O75916](#)**RGS9 Antibody (N-term) Blocking Peptide -
Additional Information****Gene ID 8787****Other Names**Regulator of G-protein signaling 9, RGS9,
RGS9**Format**Peptides are lyophilized in a solid powder
format. Peptides can be reconstituted in
solution using the appropriate buffer as
needed.**Storage**Maintain refrigerated at 2-8°C for up to 6
months. For long term storage store at
-20°C.**Precautions**This product is for research use only. Not
for use in diagnostic or therapeutic
procedures.**RGS9 Antibody (N-term) Blocking Peptide -
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

**RGS9 Antibody (N-term) Blocking Peptide
- Background**

This gene encodes a member of the RGS family of GTPaseactivating 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.

**RGS9 Antibody (N-term) Blocking Peptide
- References**

Wang, J., et al. Carcinogenesis 31(10):1755-1761(2010)
Cerver, J., et al. J. Neurochem. 114(3):739-749(2010)
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010)
Greenbaum, L., et al. Psychiatr. Genet. 20(1):47-48(2010)
Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007)

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)

**RGS9 Antibody (N-term) Blocking Peptide
- Protocols**

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

- [Blocking Peptides](#)