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RGS9 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14236a

Specification

RGS9 Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	O75916
Other Accession	NP_001075424.1, NP_003826.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**76966**
Antigen Region	**149-178**

RGS9 Antibody (N-term) - Additional Information

Gene ID 8787

Other Names
Regulator of G-protein signaling 9, RGS9, RGS9

Target/Specificity
This RGS9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 149-178 amino acids from the N-terminal region of human RGS9.

Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
RGS9 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

RGS9 Antibody (N-term) - 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.

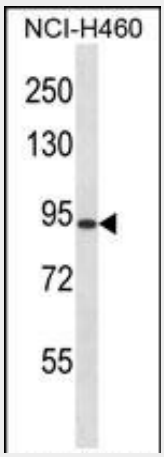
Tissue Location
Highly expressed in the caudate and putamen, lower levels found in the hypothalamus and nucleus accumbens and very low levels in cerebellum. Not expressed in globus pallidus or cingulate cortex. Isoform 2 is expressed predominantly in pineal gland and retina. Isoform 3 is expressed in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

RGS9 Antibody (N-term) - Protocols

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

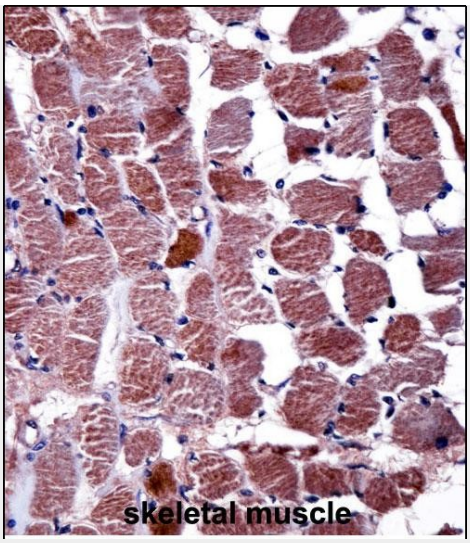
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RGS9 Antibody (N-term) - Images



RGS9 Antibody (N-term) (Cat. #AP14236a) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the RGS9 antibody detected the RGS9 protein (arrow).

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RGS9 Antibody (N-term) (AP14236a)immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of RGS9 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

RGS9 Antibody (N-term) - Background

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.

RGS9 Antibody (N-term) - References

Wang, J., et al. Carcinogenesis 31(10):1755-1761(2010)
Celver, 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)
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