

**RGS4 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP8879c**

**Specification**

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**RGS4 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P49798</a>
Other Accession	<a href="#">P49799</a> , <a href="#">Q0R4E4</a> , <a href="#">Q4R525</a> , <a href="#">Q29RM9</a>
Reactivity	Human, Mouse
Predicted	Bovine, Monkey, Rabbit, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	147-174

**RGS4 Antibody (Center) - Additional Information**

**Gene ID** 5999

**Other Names**

Regulator of G-protein signaling 4, RGP4, RGS4, RGS4

**Target/Specificity**

This RGS4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 147-174 amino acids from the Central region of human RGS4.

**Dilution**

WB~~1:1000

**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**

RGS4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**RGS4 Antibody (Center) - Protein Information**

**Name** RGS4

**Function** Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. Activity on G(z)-alpha is inhibited by

phosphorylation of the G-protein. Activity on G(z)-alpha and G(i)- alpha-1 is inhibited by palmitoylation of the G-protein.

#### **Tissue Location**

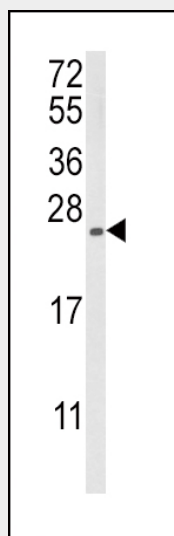
Expressed in brain and heart. Expressed in brain at protein level. Expressed in prefrontal and visual cortex. Isoform 4 and isoform 5 are expressed ubiquitously. Isoform 1, isoform 2 and isoform 3 are not expressed in the cerebellum.

#### **RGS4 Antibody (Center) - Protocols**

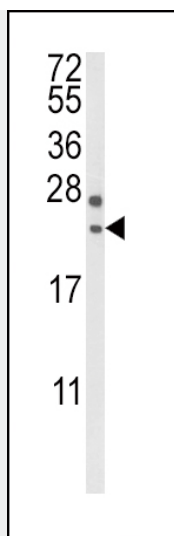
Provided below are standard protocols that you may find useful for product applications.

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

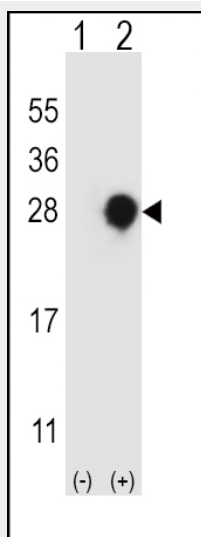
#### **RGS4 Antibody (Center) - Images**



Western blot analysis of RGS4 Antibody (Center) (Cat. #AP8879c) in MDA-MB231 cell line lysates (35ug/lane). RGS4 (arrow) was detected using the purified Pab.



Western blot analysis of RGS4 Antibody (Center) (Cat. #AP8879c) in mouse brain tissue lysates (35ug/lane). RGS4 (arrow) was detected using the purified Pab.



Western blot analysis of RGS4 (arrow) using rabbit polyclonal RGS4 Antibody (Center) (Cat. #AP8879c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the RGS4 gene.

#### **RGS4 Antibody (Center) - Background**

Regulator of G protein signaling (RGS) family members are regulatory molecules that act as GTPase activating proteins (GAPs) for G alpha subunits of heterotrimeric G proteins. RGS proteins are able to deactivate G protein subunits of the Gi alpha, Go alpha and Gq alpha subtypes. They drive G proteins into their inactive GDP-bound forms. Regulator of G protein signaling 4 belongs to this family. All RGS proteins share a conserved 120-amino acid sequence termed the RGS domain. Regulator of G protein signaling 4 protein is 37% identical to RGS1 and 97% identical to rat Rgs4. This protein negatively regulate signaling upstream or at the level of the heterotrimeric G protein and is localized in the cytoplasm.

#### **RGS4 Antibody (Center) - References**

Heximer,S.P., et.al., Proc. Natl. Acad. Sci. U.S.A. 94 (26), 14389-14393 (1997)