

**RGS2 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP20183a****Specification**

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**RGS2 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P41220</a>
Other Accession	<a href="#">NP_002914.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	24382
Antigen Region	4-32

**RGS2 Antibody (N-term) - Additional Information****Gene ID** 5997**Other Names**

Regulator of G-protein signaling 2, RGS2, Cell growth-inhibiting gene 31 protein, G0/G1 switch regulatory protein 8, RGS2, G0S8

**Target/Specificity**

This RGS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 4-32 amino acids from the N-terminal region of human RGS2.

**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**

RGS2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**RGS2 Antibody (N-term) - Protein Information****Name** RGS2**Synonyms** G0S8

**Function** Regulates G protein-coupled receptor signaling cascades. Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP-bound form (PubMed:[11063746](#), PubMed:[19478087](#)). It is involved in the negative regulation of the angiotensin-activated signaling pathway (PubMed:[28784619](#)). Plays a role in the regulation of blood pressure in response to signaling via G protein-coupled receptors and GNAQ. Plays a role in regulating the constriction and relaxation of vascular smooth muscle (By similarity). Binds EIF2B5 and blocks its activity, thereby inhibiting the translation of mRNA into protein (PubMed:[19736320](#)).

#### Cellular Location

[Isoform 1]: Cell membrane. Cytoplasm. Nucleus, nucleolus [Isoform 3]: Cell membrane. Cytoplasm Nucleus, nucleolus

#### Tissue Location

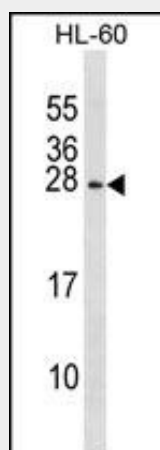
Expressed in acute myelogenous leukemia (AML) and in acute lymphoblastic leukemia (ALL).

### RGS2 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 Cytometry](#)
- [Cell Culture](#)

### RGS2 Antibody (N-term) - Images



RGS2 Antibody (N-term) (Cat. #AP20183a) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the RGS2 antibody detected the RGS2 protein (arrow).

### RGS2 Antibody (N-term) - 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 2 belongs to this family. The protein acts as a mediator of myeloid differentiation and may play a role in leukemogenesis.

#### **RGS2 Antibody (N-term) - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
Wang, J., et al. Carcinogenesis 31(10):1755-1761(2010)  
Miyamoto-Matsubara, M., et al. Ann. N. Y. Acad. Sci. 1200, 112-119 (2010) :  
Li, N.F., et al. Clin. Exp. Hypertens. 32(5):256-261(2010)  
Johnatty, S.E., et al. PLoS Genet. 6 (7), E1001016 (2010) :