

**RGS5 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14899A****Specification**

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**RGS5 Antibody (N-term) - Product Information**

Application	IHC-P, WB,E
Primary Accession	<a href="#">O15539</a>
Other Accession	<a href="#">NP_003608.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	20946
Antigen Region	24-53

**RGS5 Antibody (N-term) - Additional Information****Gene ID** 8490**Other Names**

Regulator of G-protein signaling 5, RGS5, RGS5

**Target/Specificity**

This RGS5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 24-53 amino acids from the N-terminal region of human RGS5.

**Dilution**

IHC-P~~1:10~50

WB~~1:1000

E~~Use at an assay dependent concentration.

**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**

RGS5 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**RGS5 Antibody (N-term) - Protein Information****Name** RGS5

**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 G(i)-alpha and G(o)-alpha, but not to G(s)-alpha (By similarity).

**Cellular Location**

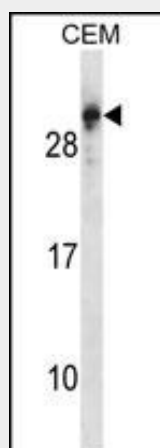
[Isoform 1]: Cytoplasm. Membrane

**RGS5 Antibody (N-term) - Protocols**

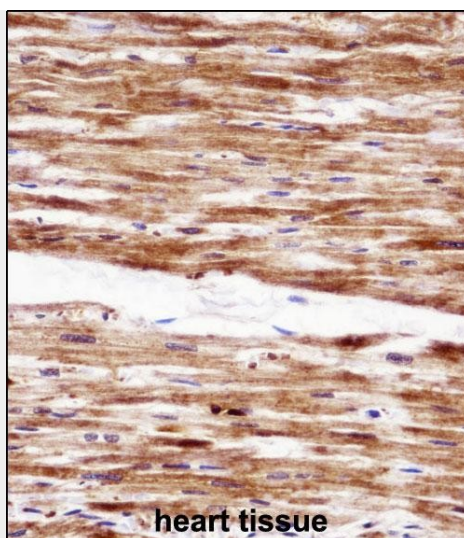
Provided below are standard protocols that you may find useful for product applications.

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

**RGS5 Antibody (N-term) - Images**



RGS5 Antibody (N-term) (Cat. #AP14899a) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the RGS5 antibody detected the RGS5 protein (arrow).



RGS5 Antibody (N-term) (AP14899a) immunohistochemistry analysis in formalin fixed and paraffin embedded human heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of RGS5 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **RGS5 Antibody (N-term) - Background**

This gene encodes a member of the regulators of G protein signaling (RGS) family. The RGS proteins are signal transduction molecules which are involved in the regulation of heterotrimeric G proteins by acting as GTPase activators. This gene is a hypoxia-inducible factor-1 dependent, hypoxia-induced gene which is involved in the induction of endothelial apoptosis. This gene is also one of three genes on chromosome 1q contributing to elevated blood pressure. Alternatively spliced transcript variants encoding different isoforms have been identified.

#### **RGS5 Antibody (N-term) - References**

Wang, J., et al. Carcinogenesis 31(10):1755-1761(2010)  
Li, H., et al. Proc. Natl. Acad. Sci. U.S.A. 107(31):13818-13823(2010)  
Liu, C.Y., et al. Carcinogenesis 31(7):1259-1263(2010)  
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :  
Xiao, B., et al. Clin. Chem. Lab. Med. 47(12):1483-1488(2009)