

**Phospho-RGS19(S24) Antibody**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP3396a**

**Specification**

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**Phospho-RGS19(S24) Antibody - Product Information**

Application	DB,E
Primary Accession	<a href="#">P49795</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	24636

**Phospho-RGS19(S24) Antibody - Additional Information**

**Gene ID** 10287

**Other Names**

Regulator of G-protein signaling 19, RGS19, G-alpha-interacting protein, GAIP, RGS19, GAIP, GNAI3IP

**Target/Specificity**

This RGS19 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S24 of human RGS19.

**Dilution**

DB~~1:500

**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**

Phospho-RGS19(S24) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Phospho-RGS19(S24) Antibody - Protein Information**

**Name** RGS19

**Synonyms** GAIP, GNAI3IP

**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-alpha subfamily 1 members, with the order G(i)a3 > G(i)a1 > G(o)a >> G(z)a/G(i)a2. Activity on G(z)-alpha is inhibited by phosphorylation and palmitoylation of the G-protein.

**Cellular Location**

Membrane; Lipid-anchor.

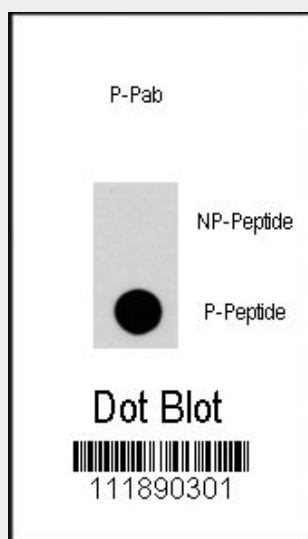
**Tissue Location**

Highest expression in lung. Placenta, liver and heart also express high levels of GAIP

**Phospho-RGS19(S24) Antibody - 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](#)

**Phospho-RGS19(S24) Antibody - Images**

Dot blot analysis of Phospho-RGS19-S24 Antibody (Cat.#AP3396a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

**Phospho-RGS19(S24) Antibody - Background**

Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of double-membrane bound autophagosomes which enclose the cytoplasmic constituent targeted for degradation in a membrane bound structure, which then fuse with the lysosome (or vacuole) releasing a single-membrane bound autophagic bodies which are then degraded within the

lysosome (or vacuole).

RGS19 enhances the intrinsic GTPase-activating protein activity of the Galpha<sub>i</sub>3 protein, which stimulates autophagy by favoring the GDP-bound form of Galpha<sub>i</sub>3.

#### **Phospho-RGS19(S24) Antibody - References**

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