

RGS19 Antibody (S151)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1820f**Specification**

RGS19 Antibody (S151) - Product Information

Application	WB, IHC-P,E
Primary Accession	P49795
Other Accession	O70521 , O9CX84 , Q08DC7
Reactivity	Human, Mouse
Predicted	Bovine, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	131-156

RGS19 Antibody (S151) - 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 peptide between 131-156 amino acids from human RGS19.

Dilution

WB~~1:1000

IHC-P~~1:10~50

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

RGS19 Antibody (S151) is for research use only and not for use in diagnostic or therapeutic procedures.

RGS19 Antibody (S151) - 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.

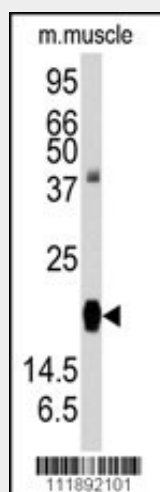
Tissue Location

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

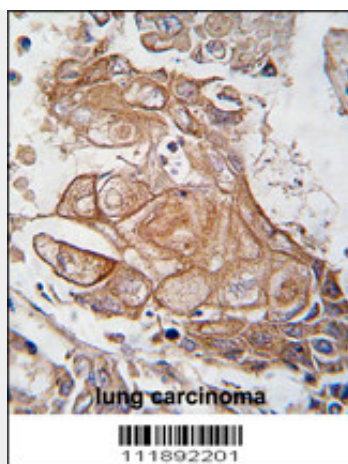
RGS19 Antibody (S151) - Protocols

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](#)

RGS19 Antibody (S151) - Images

Western blot analysis of anti-RGS19 Antibody (S151) (Cat.#AP1820f) in mouse muscle tissue lysates (35ug/lane). RGS19(arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with Phospho-RGS19-pS151.ctrl antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

RGS19 Antibody (S151) - Background

RGS19 enhances the intrinsic GTPase-activating protein activity of the Gα_i3 protein, which stimulates autophagy by favoring the GDP-bound form of Gα_i3.

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 Antibody (S151) - References

- Baehrecke EH. Nat Rev Mol Cell Biol. 6(6):505-10. (2005)
- Lum JJ, et al. Nat Rev Mol Cell Biol. 6(6):439-48. (2005)
- Greenberg JT. Dev Cell. 8(6):799-801. (2005)
- Levine B. Cell. 120(2):159-62. (2005)
- Shintani T and Klionsky DJ. Science. 306(5698):990-5. (2004)
- de Vries L., et al. PNAS 93:15203-15208(1996)
- de Alba E., et al. J. Mol. Biol. 291:927-939(1999)
- Wang J., et al. J. Biol. Chem. 273:26014-26025(1998)
- Ogier-Denis E., et al. J. Biol. Chem. 275:39090-39095(2000)