10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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, Q9CX84, 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

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.

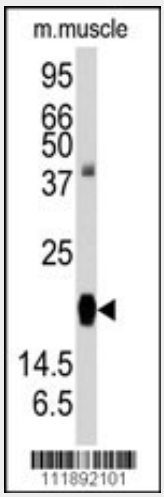
Tissue Location
Highest expression in lung. Placenta, liver and heart also express high levels of GAIP

RGS19 Antibody (S151) - Protocols

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

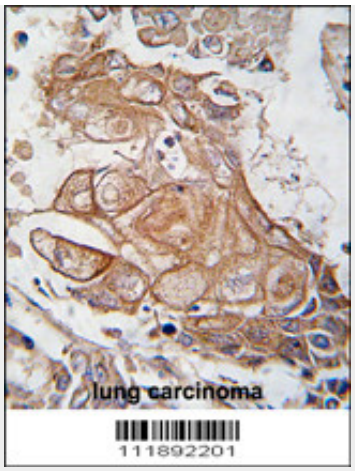
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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.

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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 Galphai3 protein, which stimulates autophagy by favoring the GDP-bound form of Galphai3.

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

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