

Rabbit Anti-RGS2 antibody

SL0492R

Product Name RGS2

Chinese Name G protein signal 转导调节因子 2 抗体

Alias Basic helix-loop-helix phosphoprotein G0S8; Cell growth inhibiting protein 31; Cell growth-inhibiting gene 31 protein; G0 to G1 switch regulatory 8 24kD; G0/G1 switch regulatory protein 8; GOS8; OTTHUMP00000060765; Regulator of G protein signaling 2; Regulator of G protein signalling 2 24kD; Regulators of G protein signaling XRGSVI; RGS 2.

Research Area immunology Neurobiology Signal transduction Growth factors and hormones transcriptional regulatory factor

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human,Rat (predicted:Mouse,Chicken,Pig,Cow,Horse,Sheep)

Applications IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 24kDa

Cellular localization The nucleus cytoplasmic The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human RGS2: 116-211/211

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

PubMed

[PubMed](#)

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. [provided by RefSeq].

Function:

Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. May play a role in leukemogenesis. Plays a role in negative feedback control pathway for adenylyl cyclase signaling. Binds EIF2B5 and blocks its activity, thereby inhibiting the translation of mRNA into protein.

Subunit:

Interacts with EIF2B5. Interacts with PRKG1 (isoform alpha).

Subcellular Location:

Isoform 1: Cell membrane. Cytoplasm. Nucleus, nucleolus.
Isoform 2: Cell membrane. Cytoplasm. Nucleus, nucleolus.
Isoform 3: Cell membrane. Cytoplasm. Nucleus, nucleolus.
Isoform 4: Cell membrane. Mitochondrion.

**Product
Detail**

Tissue Specificity:

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

Post-translational modifications:

Phosphorylated by protein kinase C. Phosphorylation by PRKG1 leads to activation of RGS2 activity.

Similarity:

Contains 1 RGS domain.

SWISS:

P41220

Gene ID:

5997

Database links:

[Entrez Gene: 5997](#) Human

[Entrez Gene: 19735](#) Mouse

[Entrez Gene: 84583](#) Rat

[Omim: 600861](#) Human

[SwissProt: P41220](#) Human

[SwissProt: O08849](#) Mouse

[SwissProt: Q9JHX0](#) Rat

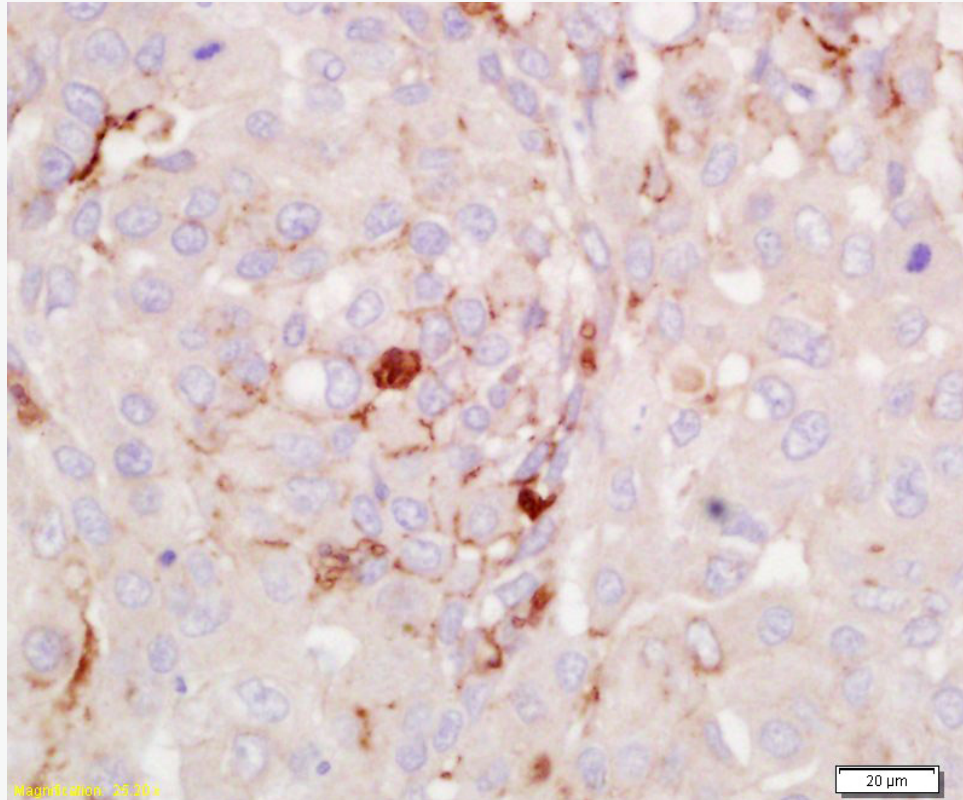
[Unigene: 78944](#) Human

[Unigene: 28262](#) Mouse

[Unigene: 1892](#) Rat

G protein signal 转导调节子 2 (RGS2) 是动物机体中神经、激素及外界信号刺激转导的重要信号分子，它作为 G 蛋白分子开关，在广泛地协调胞外刺激应答中起着重要的作用。

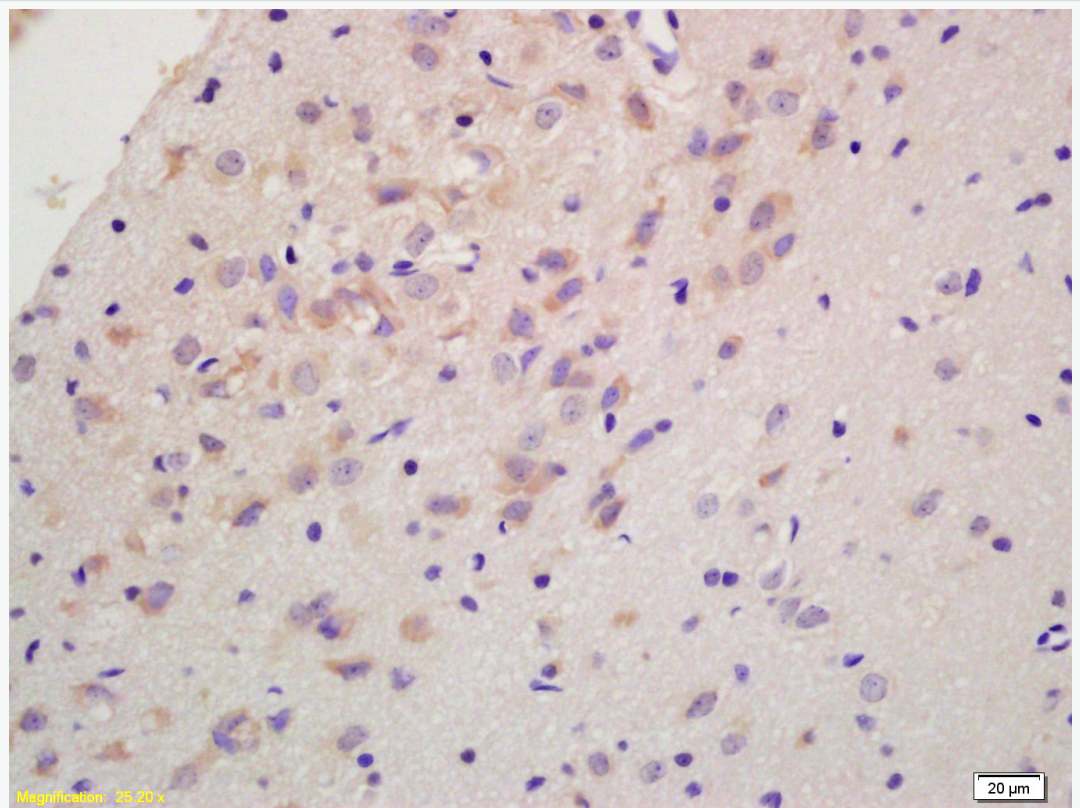
**Product
Picture**



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-RGS2 Polyclonal Antibody, Unconjugated(SL0492R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
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