



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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Pig,Cow,Horse,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	24kDa
Cellular localization:	The nucleuscytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human RGS2:116-211/211
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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.

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

[Omin: 600861](#)Human

[SwissProt: P41220](#)Human

[SwissProt: O08849](#)Mouse

[SwissProt: Q9JHX0](#)Rat

[Unigene: 78944](#)Human

[Unigene: 28262](#)Mouse

[Unigene: 1892](#)Rat

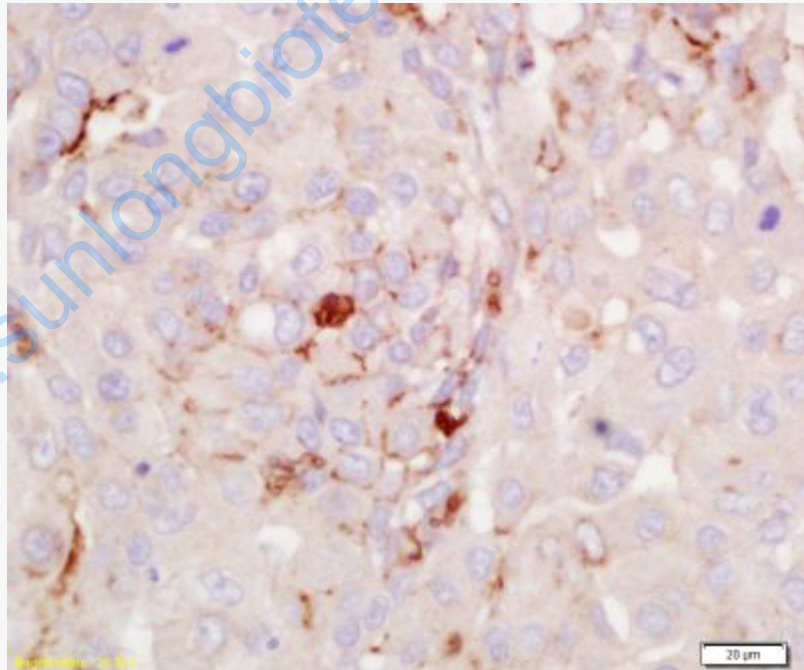
Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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。

Picture:

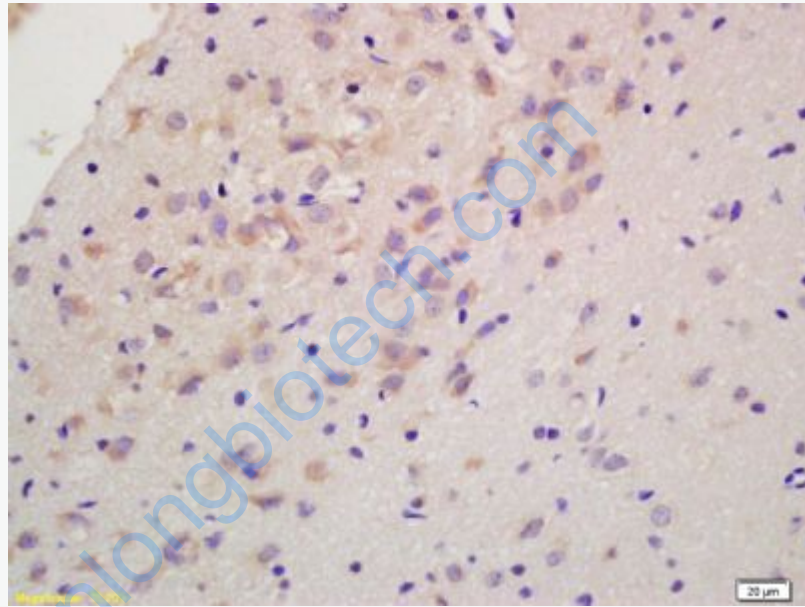


Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, 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



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