



Rabbit Anti-RGS5 antibody

SL2794R

Product Name:	RGS5
Chinese Name:	G protein signal转导调节因子5抗体
Alias:	MST092; MST106; MST129; MSTP032; MSTP092; MSTP106; MSTP129; Regulator of G Protein Signalling 5; RGS 5; RGS5_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Rabbit,
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:	22kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from mouse RGS5:81-181/181
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) proteins are regulatory and structural components of G protein-coupled receptor complexes. RGS proteins are GTPase-activating proteins for Gi and Gq class G-alpha proteins. They accelerate transit through the cycle of GTP binding and hydrolysis and thereby accelerate signaling kinetics and termination. RGS5 seems to be an important signalling regulator in the vascular system. Present data suggest that RGS5 may be involved in the regulation of capillary growth,

angiogenesis, and in the pathophysiology of stroke.

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(i)-alpha and G(o)-alpha, but not to G(s)-alpha.

Similarity:

Contains 1 RGS domain.

SWISS:

O08850

Gene ID:

19737

Database links:

[Entrez Gene: 8490](#)Human

[Entrez Gene: 19737](#)Mouse

[Entrez Gene: 54294](#)Rat

[Omim: 603276](#)Human

[SwissProt: O15539](#)Human

[SwissProt: O08850](#)Mouse

[SwissProt: Q864Z2](#)Pig

[SwissProt: P49800](#)Rat

[Unigene: 24950](#)Human

[Unigene: 20954](#)Mouse

[Unigene: 1150](#)Rat

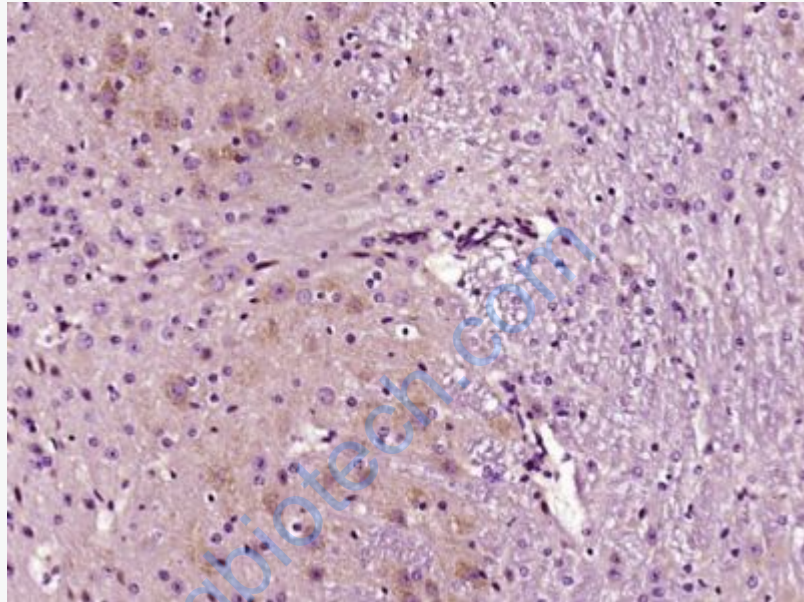
Important Note:

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

RGS5是调控G-

蛋白活性的信号蛋白(RGS)家族的一员,是Tumour血管形成的一个重要调控因子. 主要与G蛋白 α 亚基结合,发挥GTP酶激活蛋白(GAPs)作用,负性调节G protein signal传导途径。Rgs5在体内多个器官都有表达,主要表达于这些组织器官的血管周细胞。

近期发现, Rgs5与血管的生成、发展及成熟有密切关系, 影响全身各系统功能。同时在一些Tumour组织和细胞中也有高表达, 且与Tumour血管的异常有关。Rgs5基因的缺失可以使得Tumour血管正常化, 并促进免疫治疗的效果, 提示其可能成为抗Tumour血管治疗的新靶点。另外RGS5也可能是一种Tumour相关抗原, 对Tumour诊断及治疗有着积极的意义。



Picture:

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RGS5) Polyclonal Antibody, Unconjugated (SL2794R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.