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Rabbit Anti-RGS5/AF350 Conjugated antibody

SL2794R-AF350

Product Name	Anti-RGS5/AF350
Chinese Name	AF350 标记的 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.
Research Area	Tumour Cell biology Signal transduction Kinases and Phosphatases
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse(predicted:Human,Rat,Dog,Pig,Rabbit)
Applications	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	22kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from mouse RGS5
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% 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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:** 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.

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

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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.