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[Marker Primary Antibody]

Rabbit Anti-RGS5/AF647 Conjugated antibody

Catalog Number: SL2794R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-RGS5/AF647
Immunogen:	KLH conjugated synthetic peptide derived from mouse RGS5
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
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.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Dog,Pig,Rabbit)
Background:	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

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

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	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. RGS5It is a member of the regulator of G-protein signaling (RGS) family, an important regulatory factor in Tumour angiogenesis. It mainly binds to G proteinαsubunits，exerts GTPase-activating protein (GAPs) activity, negatively regulating the G protein signal transduction pathway. Rgs5 is expressed in multiple organs in vivo, primarily in the perivascular cells of these tissues and organs. Recent findings indicate that Rgs5 is closely related to angiogenesis, development, and maturation, affecting the functions of various systems throughout the body. Meanwhile, it is also highly expressed in some Tumour tissues and cells and is associated with abnormal Tumour vasculature. Deletion of the Rgs5 gene can normalize Tumour vasculature and promote the efficacy of immunotherapy, suggesting that it may become a new target for anti-Tumour vascular therapy. In addition, RGS5 may also be a Tumour-associated antigen． which has positive significance for Tumour diagnosis and treatment．