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RGS4 Rabbit pAb

Catalog # AP97328

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P49798
Other Accession	P49798
Reactivity	Mouse
Predicted	Rat, Pig, Human, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	23256
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RGS4
Epitope Specificity	51-150/205
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Post-translational modifications	Palmitoylated on Cys-2 and/or Cys-12. Phosphorylated by cyclic GMP-dependent protein kinase (By similarity).
DISEASE	Genetic variation in RGS4 is associated with susceptibility to schizophrenia type 9 (SCZD9) [MIM:604906]. A complex, multifactorial psychotic disorder or group of disorders characterized by disturbances in the form and content of thought (e.g. delusions, hallucinations), in mood (e.g. inappropriate affect), in sense of self and relationship to the external world (e.g. loss of ego boundaries, withdrawal), and in behavior (e.g bizarre or apparently purposeless behavior). Although it affects emotions, it is distinguished from mood disorders in which such disturbances are primary. Similarly, there may be mild impairment of cognitive function, and it is distinguished from the dementias in which disturbed cognitive function is considered primary. Some patients manifest schizophrenic as well as bipolar disorder symptoms and are often given the diagnosis of schizoaffective disorder.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. Activity on G(z)-alpha is inhibited by phosphorylation of the G-protein. Activity on G(z)-alpha and G(i)-alpha-1 is inhibited by palmitoylation of the G-protein.

Additional Information

Gene ID	5999
Other Names	RGP4; SCZD9; ESTM48; ESTM50; RGS4_HUMAN; RGS4; RGS4_MOUSE; RGS4_RAT; regulator of G protein signaling 4; regulator of G-protein signalling 4; schizophrenia disorder 9; regulator of G-protein signaling 4

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	RGS4
Function	Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. Activity on G(z)-alpha is inhibited by phosphorylation of the G protein. Activity on G(z)-alpha and G(i)- alpha-1 is inhibited by palmitoylation of the G protein.
Tissue Location	Expressed in brain and heart. Expressed in brain at protein level. Expressed in prefontal and visual cortex. Isoform 4 and isoform 5 are expressed ubiquitously. Isoform 1, isoform 2 and isoform 3 are not expressed in the cerebellum.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.