

RGS14 Monoclonal antibody

Catalog Number: 67394-1-Ig

Basic Information

Catalog Number: 67394-1-Ig	GenBank Accession Number: BC014094	Purification Method: Protein G purification
Size: 150ul , Concentration: 2200 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 10636	CloneNo.: 1C1B2
Source: Mouse	UNIPROT ID: O43566	Recommended Dilutions: WB 1:5000-1:15000 IHC 1:1000-1:4000 IF/ICC 1:1000-1:4000
Isotype: IgG1	Full Name: regulator of G-protein signaling 14	
Immunogen Catalog Number: AG9477	Calculated MW: 566 aa, 61 kDa	
	Observed MW: 61 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : mouse brain tissue, HeLa cells, HEK-293 cells, Jurkat cells, NIH/3T3 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : mouse brain tissue,
	IF/ICC : HeLa cells,
	FC (Intra) : HeLa cells,

Background Information

RGS14, a member of the R12 subfamily of RGS proteins, is highly expressed in the brain and is a natural suppressor of CA2 hippocampal synaptic plasticity and learning and memory. RGS14 was first identified as a complex scaffolding protein with an unconventional domain structure that allows it to interact with various protein binding partners. RGS14 contains one RGS domain, two Raf-like Ras-binding domains (RBDs), and one GoLoco domain. The protein attenuates the signaling activity of G-proteins by binding, through its GoLoco domain, to specific types of activated, GTP-bound G alpha subunits. Acting as a GTPase activating protein (GAP), the protein increases the rate of conversion of the GTP to GDP.

Storage

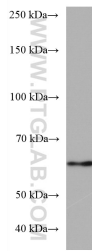
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

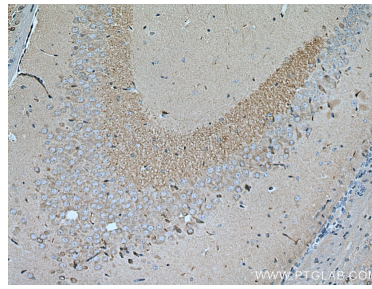
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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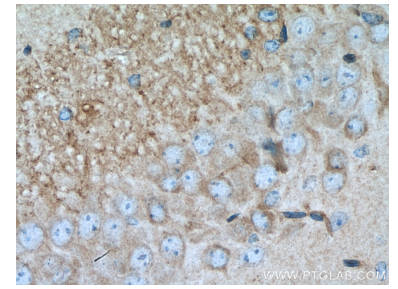
Selected Validation Data



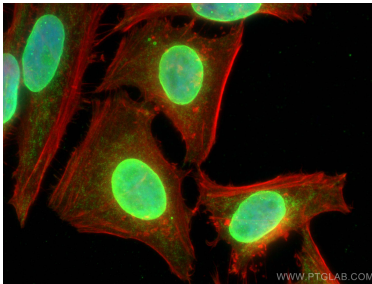
mouse brain tissue were subjected to SDS PAGE followed by western blot with 67394-1-Ig (RGS14 antibody) at dilution of 1:13000 incubated at room temperature for 1.5 hours.



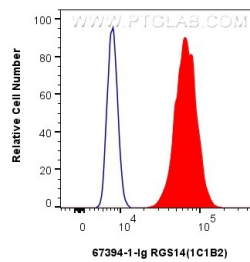
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67394-1-Ig (RGS14 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67394-1-Ig (RGS14 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using RGS14 antibody (67394-1-Ig, Clone: 1C1B2) at dilution of 1:2000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).



1x10⁶ HeLa cells were intracellularly stained with 0.4 ug RGS14 Monoclonal antibody (67394-1-Ig, Clone:1C1B2) and CoraLite488-conjugated Donkey Anti-Mouse IgG(H+L)(SA00013-5)(red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).