

For Research Use Only

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

Species Specificity:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse brain tissue, HeLa cells, HEK-293 cells, Jurkat cells, NIH/3T3 cells

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

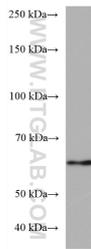
For technical support and original validation data for this product please contact:

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

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

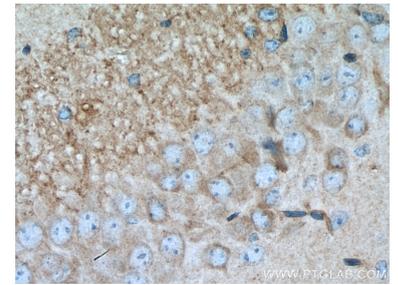
Selected Validation Data



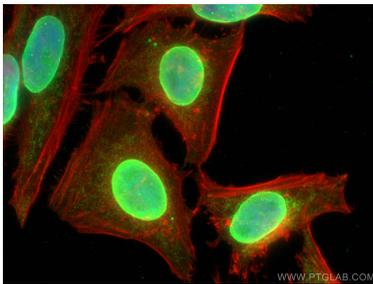
mouse brain tissue were subjected to SDS PAGE followed by western blot with 67394-1-Ig (RGS14 antibody) at dilution of 1:13000 incubated at room temperature for 1.5 hours.



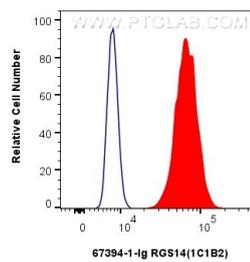
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67394-1-Ig (RGS14 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1×10^6 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).