

# RGS14 Monoclonal antibody

Catalog Number: 67394-1-Ig

## Basic Information

Catalog Number: 67394-1-Ig	GenBank Accession Number: BC014094	Purification Method: Protein G purification
Concentration: 2200 ug/ml	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
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	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

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

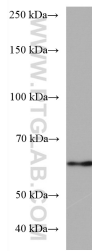
T: 4006900926

E: Proteintech-CN@ptglab.com

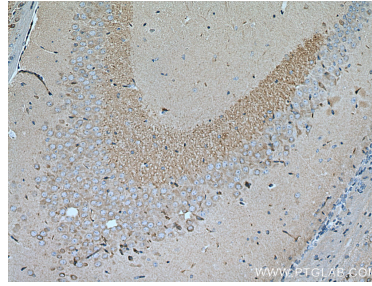
W: ptgcn.com

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

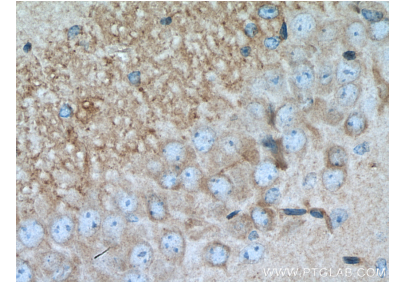
## Selected Validation Data



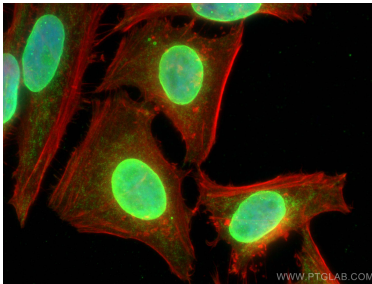
mouse brain tissue were subjected to SDS PAGE followed by western blot with 67394-1-Ig (RGS14 antibody) at dilution of 1:13000 incubated at room temperature for 1.5 hours.



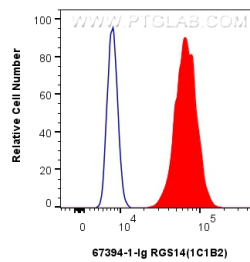
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67394-1-Ig (RGS14 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1x10<sup>6</sup> 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).