

For Research Use Only

# RPH3A Polyclonal antibody

Catalog Number: 11396-1-AP **4 Publications**



## Basic Information

<b>Catalog Number:</b> 11396-1-AP	<b>GenBank Accession Number:</b> BC017259	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 300 µg/ml by Nanodrop and 200 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 22895	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500 IF 1:10-1:100
<b>Source:</b> Rabbit	<b>Full Name:</b> rabphilin 3A homolog (mouse)	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 690 aa, 76 kDa	
<b>Immunogen Catalog Number:</b> AG1956	<b>Observed MW:</b> 76 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b> WB : COLO 320 cells, human brain tissue
<b>Cited Applications:</b> IF, WB	<b>IHC :</b> mouse brain tissue,
<b>Species Specificity:</b> human, mouse, rat	<b>IF :</b> COLO 320 cells,
<b>Cited Species:</b> 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**

## Background Information

RAB3A is a small G protein that is thought to act in exocytosis of neurotransmitters and hormones in synaptic neurotransmission and cell-cell communication. RPH3A (RPH3A), a RAB3A effector, is a neuronal C2 domain tandem containing protein that is involved in the neuronal transmitter process. Huntington's disease (HD) is a hereditary neurodegenerative disorder characterized by progressive motor disturbances, cognitive defects and dementia. Level of rabphilin 3A is substantially decreased in synapses of most brain regions in R6/1 transgenic mouse model of HD suggesting a role of RPH3A in impaired synaptic transmission.

## Notable Publications

Author	Pubmed ID	Journal	Application
Tianzhi Li	36173100	Elife	WB
Tatsuaki Kurosaki	36356584	Mol Cell	WB
Elena Ferrari	35918045	Pharmacol Res	WB,IF

## Storage

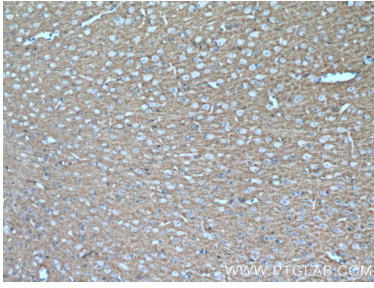
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

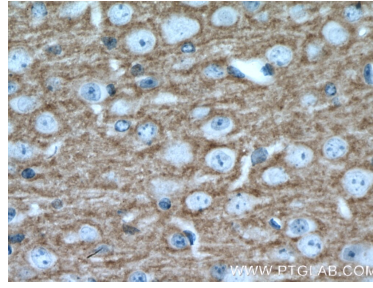
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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

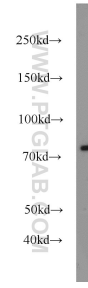
## Selected Validation Data



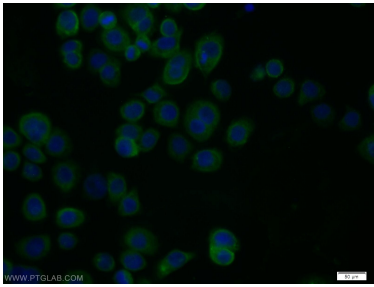
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 11396-1-AP (RPH3A antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 11396-1-AP (RPH3A antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



COLO 320 cells were subjected to SDS PAGE followed by western blot with 11396-1-AP (RPH3A antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of COLO 320 cells using 11396-1-AP (RPH3A antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).