

For Research Use Only

# RAB3A Polyclonal antibody

Catalog Number: 15029-1-AP

Featured Product

9 Publications



## Basic Information

**Catalog Number:**

15029-1-AP

**Size:**

450 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG1903

**GenBank Accession Number:**

BC011782

**GeneID (NCBI):**

5864

**UNIPROT ID:**

P20336

**Full Name:**

RAB3A, member RAS oncogene family

**Calculated MW:**

25 kDa

**Observed MW:**

25 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:6000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

**Tested Applications:**

IHC, IP, WB, ELISA

**Cited Applications:**

IF, IHC, WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse

**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, SH-SY5Y cells, human brain tissue, mouse cerebellum tissue, rat brain tissue

**IP:** mouse brain tissue,

**IHC:** human gliomas tissue, mouse brain tissue

## Background Information

Rab3A is a small G-protein of the Rab family, that is implicated in vesicle fusion and regulated secretion, particularly in neurotransmitter release. Rab3 subfamily small G proteins (Rab3A, Rab3B, Rab3C, and Rab3D) control the regulated exocytosis in neuronal/secretory cells. Rab3A is the most abundant Rab GTPase in brain, where it is associated with synaptic vesicles. Rab3A is believed to modulate secretion efficiency by stimulating vesicle recruitment to sites of exocytosis and/ or by recruiting regulatory molecules to the docking/ fusion machinery.

## Notable Publications

| Author           | Pubmed ID | Journal        | Application |
|------------------|-----------|----------------|-------------|
| Weicheng Wu      | 30237463  | Cell Death Dis | WB,IHC      |
| S Andrew Shuster | 36220098  | Neuron         | IF          |
| Yu-Chan Chang    | 36652260  | Mol Oncol      | WB,IHC,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

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

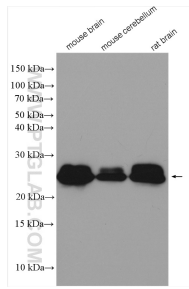
T: 4006900926

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.**

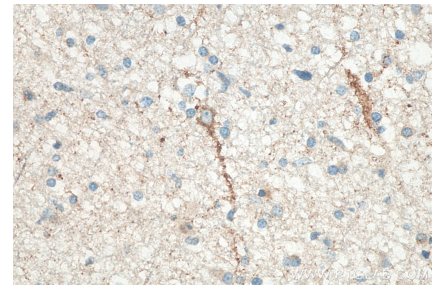
## Selected Validation Data



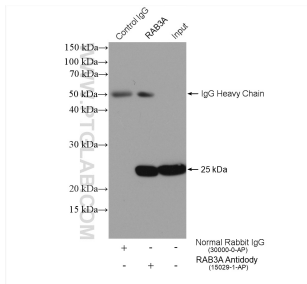
Various lysates were subjected to SDS PAGE followed by western blot with 15029-1-AP (RAB3A antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 15029-1-AP (RAB3A 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 human gliomas tissue slide using 15029-1-AP (RAB3A antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-RAB3A (IP:15029-1-AP, 4ug; Detection:15029-1-AP 1:1000) with mouse brain tissue lysate 1920 ug.