

For Research Use Only

# RAC1/2/3 Polyclonal antibody

Catalog Number: 16117-1-AP

Featured Product

9 Publications



## Basic Information

### Catalog Number:

16117-1-AP

### Size:

500 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG9045

### GenBank Accession Number:

BC015197

### GeneID (NCBI):

5881

### UNIPROT ID:

P60763

### Full Name:

ras-related C3 botulinum toxin substrate 3 (rho family, small GTP binding protein Rac3)

### Calculated MW:

192 aa, 21 kDa

### Observed MW:

21 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:10000

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

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

WB : SH-SY5Y cells, human brain tissue, mouse brain tissue, rat brain tissue

IP : mouse brain tissue,

IHC : mouse brain tissue,

**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

Rac3 is a GTPase that belongs to the RAS superfamily of small GTP-binding proteins. Members of this superfamily appear to regulate a diverse array of cellular events, including the control of cell growth, cytoskeletal reorganization, and the activation of protein kinases. There are three Rac genes in mammals, which share over 90% protein identity but differ for their pattern of expression. Rac1 is ubiquitous, Rac2 is specific for hematopoietic cells, while Rac3 is prevalent in the developing nervous system. This antibody can recognize Rac1, Rac2, and Rac3.

## Notable Publications

Author	Pubmed ID	Journal	Application
Brian J Rosenberg	28356423	Mol Biol Cell	WB
Erika Di Biase	32198666	Glycoconj J	WB
Sira A Franchi	29358905	Front Cell Neurosci	WB

## 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:

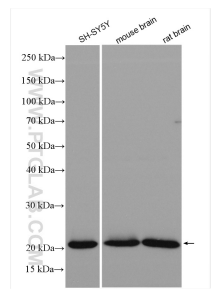
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

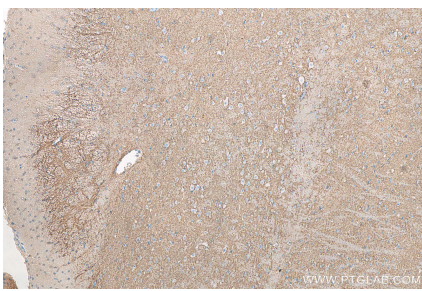
W: [ptgcn.com](http://ptgcn.com)

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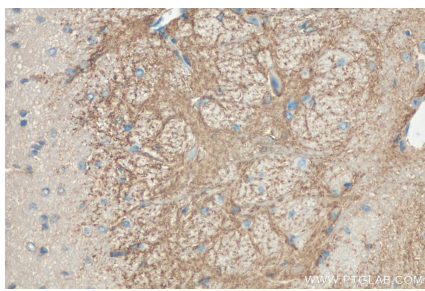
Selected Validation Data



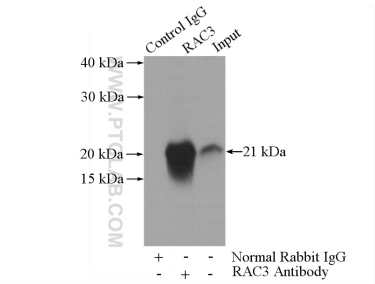
Various lysates were subjected to SDS PAGE followed by western blot with 16117-1-AP (RAC1/2/3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 16117-1-AP (RAC1/2/3 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 16117-1-AP (RAC1/2/3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-RAC1/2/3 (IP:16117-1-AP, 3ug; Detection:16117-1-AP 1:500) with mouse brain tissue lysate 2640ug.