

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:

150ul, Concentration: 500 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;

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

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

IP : mouse brain tissue,

IHC : mouse brain tissue,

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

*** 20ul sizes contain 0.1% BSA

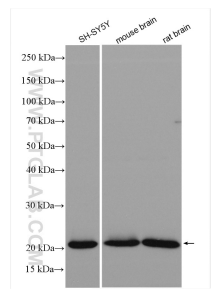
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

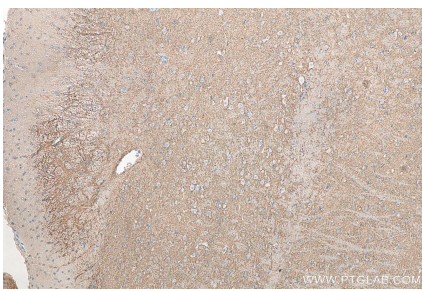
E: proteintech@ptglab.com
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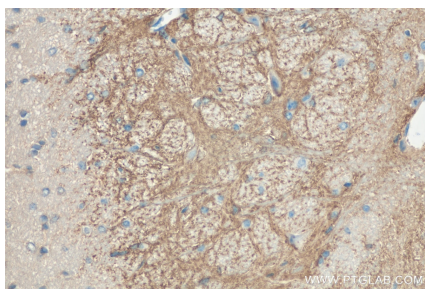
Selected Validation Data



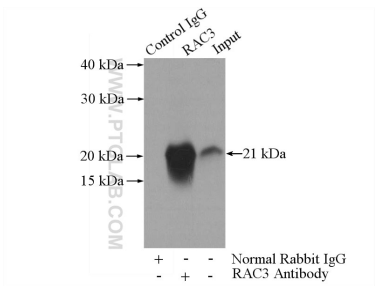
Various lysates were subjected to SDS PAGE followed by western blot with 16117-1-AP (RAC1/2/3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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.