

For Research Use Only

RIT2 Polyclonal antibody

Catalog Number: 12473-1-AP



Basic Information

Catalog Number:

12473-1-AP

Size:

150ul, Concentration: 650 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3160

GenBank Accession Number:

BC018060

GeneID (NCBI):

6014

UNIPROT ID:

Q99578

Full Name:

Ras-like without CAAX 2

Calculated MW:

217 aa, 25 kDa

Observed MW:

25-28 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

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, IP, IHC, ELISA

Species Specificity:

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

Positive Controls:

WB : rat brain tissue,

IP : mouse brain tissue, rat brain tissue

IHC : mouse pancreas tissue, mouse brain tissue

Background Information

RIT2 (AKA: Rin, Ras-like in neurons) is a small, neuronal, ras-like GTPase with enriched expression in SNc DANs (PMID: 38395968). RIT2 is a member of the Ras superfamily that plays important roles in many vital cellular functions, such as differentiation and survival (PMID: 29860660). Rit2 directly interacts with the DA transporter (DAT), and is required for regulated DAT membrane trafficking. In cell culture models, Rit2 is required for EGF- and NGF-mediated neurite outgrowth, NGF-mediated ERK phosphorylation, and cell viability (PMID: 38395968).

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

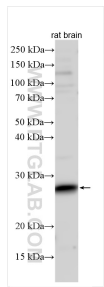
For technical support and original validation data for this product please contact:

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

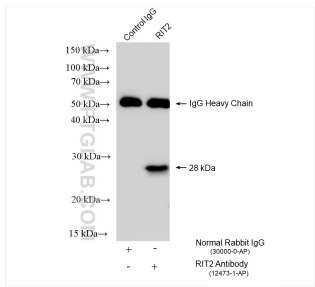
E: proteintech@ptglab.com
W: ptglab.com

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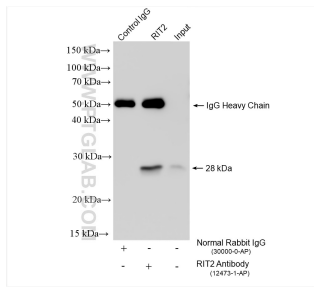
Selected Validation Data



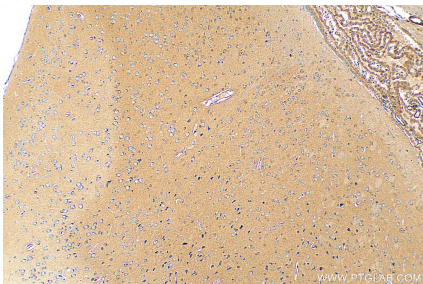
Various lysates were subjected to SDS PAGE followed by western blot with 12473-1-AP (RIT2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



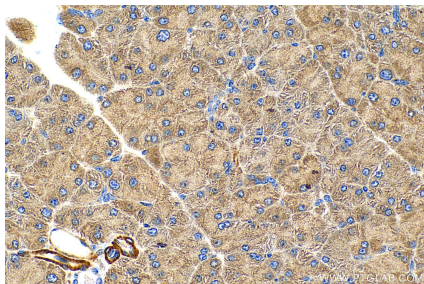
IP result of anti-RIT2 (IP:12473-1-AP, 4ug; Detection:12473-1-AP 1:1000) with mouse brain tissue lysate 1800 ug.



IP result of anti-RIT2 (IP:12473-1-AP, 4ug; Detection:12473-1-AP 1:1000) with rat brain tissue lysate 1120 ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12473-1-AP (RIT2 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 pancreas tissue slide using 12473-1-AP (RIT2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).