

For Research Use Only

RTN3 Polyclonal antibody

Catalog Number: 12055-2-AP

29 Publications



Basic Information

Catalog Number:

12055-2-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2685

GenBank Accession Number:

BC011394

GeneID (NCBI):

10313

UNIPROT ID:

O95197

Full Name:

reticulon 3

Calculated MW:

113 kDa

Observed MW:

24 kDa, 100-113 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

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

Applications

Tested Applications:

WB, IP, ELISA

Cited Applications:

WB, IF, IP

Species Specificity:

human

Cited Species:

human, mouse, rat, monkey, chicken

Positive Controls:

WB : HEK-293T cells, human brain tissue, HeLa cells, U-87 MG cells, U2OS cells

IP : HeLa cells,

Background Information

Reticulon (RTN) proteins are a group of membrane-bound proteins that largely reside in endoplasmic reticulum (ER). Reticulon proteins share a common sequence feature, the reticulon homology domain (RHD). Four mammalian reticulons (RTN1-4) exist. Reticulon3 (RTN3) is highly expressed in neurons. RTN3 has been shown to modulate secretory pathway protein trafficking. It is a negative modulator of BACE1 (β -secretase) proteolytic activity. RTN3 may induce caspase-8 cascade and apoptosis and may favor BCL2 translocation to the mitochondria upon endoplasmic reticulum stress.

Notable Publications

Author	Pubmed ID	Journal	Application
Tao Wang	28985237	PLoS Pathog	WB
Sindhu Wisesa	31696206	Biochem J	IP
Zhigong Chen	32406007	J Cardiovasc Transl Res	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

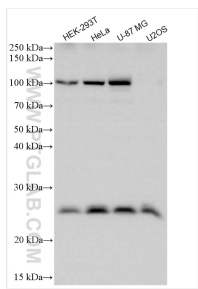
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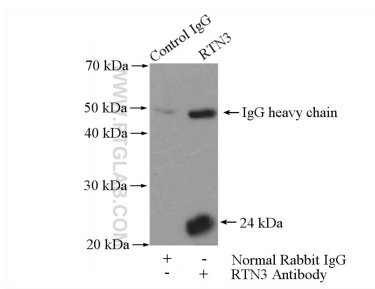
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 12055-2-AP (RTN3 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



IP result of anti-RTN3 (IP:12055-2-AP, 4ug; Detection:12055-2-AP 1:400) with HeLa cells lysate 2000ug.