

For Research Use Only

# RTN1 (Isoform RTN1-C) Polyclonal antibody

Catalog Number: 15048-1-AP

Featured Product

6 Publications



## Basic Information

### Catalog Number:

15048-1-AP

### Size:

150ul, Concentration: 900 ug/ml by Nanodrop and 253 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG7031

### GenBank Accession Number:

BC000314

### GeneID (NCBI):

6252

### UNIPROT ID:

Q16799

### Full Name:

reticulon 1

### Calculated MW:

84 kDa, 39 kDa, 24 kDa

### Observed MW:

23 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:4000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, rat, 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, human brain tissue, rat brain tissue

IHC : mouse cerebellum tissue, human brain tissue, human placenta tissue, mouse brain tissue

## Background Information

Reticulon (RTN) proteins are a group of membrane-bound proteins that largely reside in endoplasmic reticulum (ER) (PMID: 18177508). Reticulon proteins share a common sequence feature, the reticulon homology domain (RHD). They are involved in shaping the tubular endoplasmic reticulum network, membrane trafficking, inhibition of axonal growth, and apoptosis (PMID: 24218324). Four mammalian reticulons (RTN1-4) exist. Human RTN1 (also known as NSP) gene is expressed predominantly in neuroendocrine tissues, and produces three isoforms termed RTN1-A (NSP-A), RTN1-B (NSP-B), and RTN1-C (NSP-C). This antibody is raised against the full-length protein of human RTN1-C.

## Notable Publications

Author	Pubmed ID	Journal	Application
Lingli Gong	28981095	Cell Death Dis	WB, IF
Peng-Peng Zhu	35348668	Hum Mol Genet	WB
Jun Ling	33372676	Acta Biochim Biophys Sin (Shanghai)	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

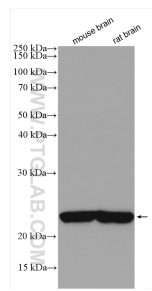
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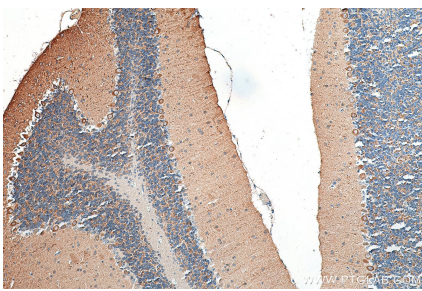
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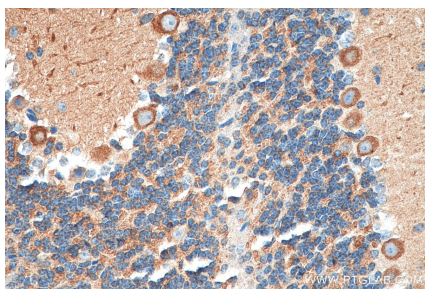
# Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15048-1-AP (RTN1 (Isoform RTN1-C) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 15048-1-AP (RTN1 (Isoform RTN1-C) 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 cerebellum tissue slide using 15048-1-AP (RTN1 (Isoform RTN1-C) antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).