

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	GenBank Accession Number: BC000314	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 900 µg/ml by Nanodrop and 253 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 6252	Recommended Dilutions: WB 1:500-1:4000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q16799	
Isotype: IgG	Full Name: reticulon 1	
Immunogen Catalog Number: AG7031	Calculated MW: 84 kDa, 39 kDa, 24 kDa	
	Observed MW: 23 kDa	

Applications

Tested Applications:
IHC, WB, ELISA

Cited Applications:
IF, WB

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

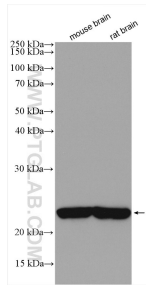
For technical support and original validation data for this product please contact:

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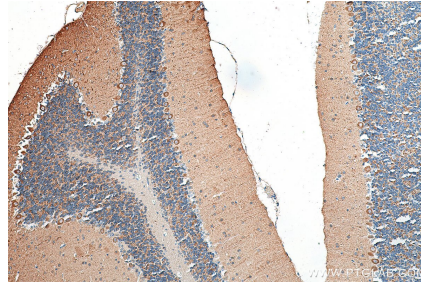
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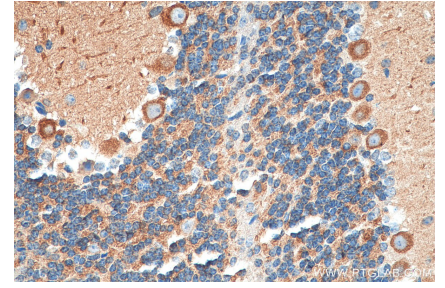
Selected Validation Data



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).