

For Research Use Only

RTN3 Polyclonal antibody

Catalog Number: 12055-2-AP **19 Publications**



Basic Information

Catalog Number: 12055-2-AP	GenBank Accession Number: BC011394	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 450 µg/ml by Nanodrop;	GeneID (NCBI): 10313	Recommended Dilutions: WB 1:1000-1:8000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: O95197	
Isotype: IgG	Full Name: reticulon 3	
Immunogen Catalog Number: AG2685	Calculated MW: 113 kDa	
	Observed MW: 24 kDa, 100-113 kDa	

Applications

Tested Applications: WB, IP, IHC, ELISA	Positive Controls: WB : HEK-293T cells, human brain tissue, HeLa cells, U-87 MG cells, U2OS cells IP : HeLa cells, IHC : human gliomas tissue,
Cited Applications: WB, IP, IF	
Species Specificity: human	
Cited Species: human, rat, mouse, monkey	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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

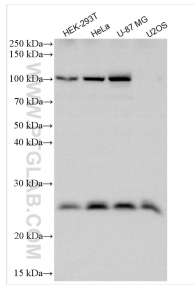
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

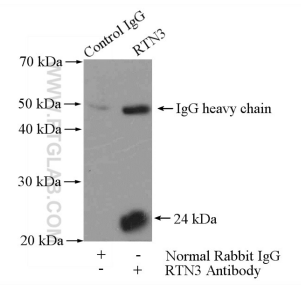
For technical support and original validation data for this product please contact:
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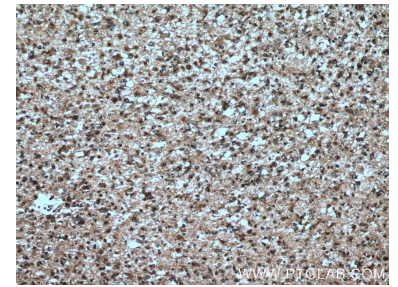
Selected Validation Data



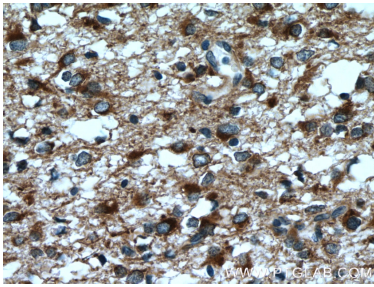
Various lysates were subjected to SDS PAGE followed by western blot with 12055-2-AP (RTN3 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 12055-2-AP (RTN3 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 human gliomas tissue slide using 12055-2-AP (RTN3 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).