

# RTN2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)  
Catalog # AP17495a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">O75298</a>
<b>Other Accession</b>	<a href="#">NP_005610.1</a> , <a href="#">NP_996784.1</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB37555
<b>Calculated MW</b>	59264
<b>Antigen Region</b>	109-138

## Additional Information

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<b>Gene ID</b>	6253
<b>Other Names</b>	Reticulon-2, Neuroendocrine-specific protein-like 1, NSP-like protein 1, Neuroendocrine-specific protein-like I, NSP-like protein I, NSPL1, RTN2, NSPL1
<b>Target/Specificity</b>	This RTN2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 109-138 amino acids from the N-terminal region of human RTN2.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	RTN2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	RTN2
<b>Synonyms</b>	NSPL1
<b>Function</b>	Inhibits amyloid precursor protein processing, probably by blocking BACE1

activity (PubMed:[15286784](#)). Enhances trafficking of the glutamate transporter SLC1A1/EAAC1 from the endoplasmic reticulum to the cell surface (By similarity). Plays a role in the translocation of SLC2A4/GLUT4 from intracellular membranes to the cell membrane which facilitates the uptake of glucose into the cell (By similarity).

#### Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Sarcoplasmic reticulum membrane {ECO:0000250|UniProtKB:O70622}; Multi-pass membrane protein. Cell membrane {ECO:0000250|UniProtKB:Q6WN19}; Multi-pass membrane protein. Cell membrane, sarcolemma {ECO:0000250|UniProtKB:O70622}; Multi-pass membrane protein. Cell membrane, sarcolemma, T-tubule {ECO:0000250|UniProtKB:O70622}; Multi-pass membrane protein. Cytoplasm, myofibril, sarcomere, Z line {ECO:0000250|UniProtKB:O70622}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:O70622}. Note=Localizes to intermediate filaments in mononucleated myoblasts and to Z lines in mature myotubes {ECO:0000250|UniProtKB:O70622}

#### Tissue Location

[Isoform RTN2-C]: Highly expressed in skeletal muscle.

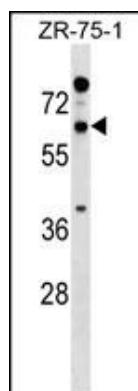
## Background

This gene belongs to the family of reticulon encoding genes. Reticulons are associated with the endoplasmic reticulum, and are involved in neuroendocrine secretion or in membrane trafficking in neuroendocrine cells. Alternatively spliced transcript variants encoding different isoforms have been identified.

## References

Ikemoto, T., et al. Diabetes 58(12):2802-2812(2009)  
Liu, Y., et al. J. Biol. Chem. 283(10):6561-6571(2008)  
Ballif, B.A., et al. Mol. Cell Proteomics 3(11):1093-1101(2004)  
Ballif, B.A., et al. Mol. Cell Proteomics 3(11):1093-1101(2004)  
He, W., et al. Nat. Med. 10(9):959-965(2004)

## Images



RTN2 Antibody (N-term) (Cat. #AP17495a) western blot analysis in ZR-75-1 cell line lysates (35ug/lane). This demonstrates the RTN2 antibody detected the RTN2 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.