# RTN1 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | RTN1, Polyclonal Antibody |
| **Full Product Name** | RTN1, NT (RTN1, NSP, Reticulon-1, Neuroendocrine-specific protein) (MaxLight 490) |
| **Product Gene Name** | anti-RTN1 antibody |
| **Product Synonym Names** | RTN1; NSP; Reticulon-1; Neuroendocrine-specific protein |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Molecular Weight** | 83,618 Da |
| **Chromosome Location** | Chromosome: 14; NC_000014.8 (60062694..60337557, complement). Location: 14q23.1 |
| **OMIM** | 600865 |
| **3D Structure** | ModBase 3D Structure for Q16799 |
| **Immunogen** | RTN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 197-227 amino acids from the N-terminal region of human RTN1. |
| **Conjugate** | MaxLight490 |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-RTN1 antibody** | Antibodies; Neuroscience |
| **Applications Tested/Suitable for anti-RTN1 antibody** | Western Blot (WB), FLISA |
| **Application Notes for anti-RTN1 antibody** | WB: 1:100-500<br>FLISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-RTN1 antibody** | 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. Multiple promoters rather than alternative splicing of internal exons seem to be involved in this diversity. [provided by RefSeq]. |
| **Product References and Citations for anti-RTN1 antibody** | Rose, J. Phd, et al. Mol. Med. (2010). In press: Fazi, B., et al. Oncogene 28(43):3814-3824(2009). Melino, S., et al. Biochemistry 48(2):242-253(2009). Di Sano, F., et al. J. Neurochem. 102(2):345-353(2007). Iwahashi, J., et al. Biochem. Biophys. Res. Commun. 355(2):508-512(2007). |

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| **Other Notes** | Small volumes of anti-RTN1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for RTN1 purchase** | MBS6344354 is an antibody targeting RTN1. Also known as RTN1, NT (RTN1, NSP, Reticulon-1, Neuroendocrine-specific protein) (MaxLight 490). Reactive in Human, Mouse. Host: Rabbit. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RTN1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 45827776 |
| **NCBI GeneID** | 6252 |
| **NCBI Accession #** | NP_996734.1 |
| **NCBI Related Accession #** | NP_066959.1 |
| **UniProt Primary Accession #** | Q16799 |
| **UniProt Secondary Accession #** | Q16800; Q16801; Q5BKZ4; Q9BQ59 |
| **UniProt Related Accession #** | Q16799 |
| **GenBank Nucleotide #** | NM_206852.2 |
| **NCBI Official Full Name** | reticulon-1 isoform C |
| **NCBI Official Synonym Full Names** | reticulon 1 |
| **NCBI Official Symbol** | RTN1 |
| **NCBI Official Synonym Symbols** | NSP |
| **UniProt Protein Name** | Reticulon-1 |
| **UniProt Synonym Protein Names** | Neuroendocrine-specific protein |
| **Protein Family** | Reticulon |
| **UniProt Gene Name** | RTN1 |
| **UniProt Synonym Gene Names** | NSP |
| **UniProt Entry Name** | RTN1_HUMAN |
| **NCBI Protein Information** | reticulon-1; neuroendocrine-specific protein |
| **NCBI Summary for RTN1** | 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. This gene is considered to be a specific marker for neurological diseases and cancer, and is a potential molecular target for therapy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2011] |
| **UniProt Comments for RTN1** | RTN1: May be involved in neuroendocrine secretion or in membrane trafficking in neuroendocrine cells. 3 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Membrane protein, multi-pass; Endoplasmic reticulum; Membrane protein, integral; Cell development/differentiation<br><br>Chromosomal Location of Human Ortholog: 14q23.1<br><br>Cellular Component: endoplasmic reticulum membrane; integral to endoplasmic reticulum membrane<br><br>Molecular Function: protein binding<br><br>Biological Process: neuron differentiation |

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| **Research Articles on RTN1** | **1.** RTN1-C induces PDI redistribution in endoplasmic reticulum vesicles, and concomitantly modulates its activity by decreasing the levels of its S-nitrosylated form. |
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