RTN1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RTN1, Polyclonal Antibody
Full Product Name	RTN1, NT (RTN1, NSP, Reticulon-1, Neuroendocrine-specific protein) (MaxLight 405)
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 MaxLight405.
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: MaxLight405 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	MaxLight405
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 FLISA: 1:1,000 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).

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	MBS6344353 is an antibody targeting RTN1. Also known as RTN1, NT (RTN1, NSP, Reticulon-1, Neuroendocrine-specific protein) (MaxLight 405). 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.

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. Protein type: Membrane protein, multi-pass; Endoplasmic reticulum; Membrane protein, integral; Cell development/differentiation Chromosomal Location of Human Ortholog: 14q23.1 Cellular Component: endoplasmic reticulum membrane; integral to endoplasmic reticulum membrane Molecular Function: protein binding Biological Process: neuron differentiation

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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