RTN1 Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	RTN1, Blocking Peptide
Full Product Name	RTN1 Peptide - N-terminal region
Product Gene Name	RTN1 blocking peptide
Product Synonym Gene Name	MGC133250; NSP
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	RTN1 peptide (MBS3234496) is used for blocking the activity of RTN1 antibody (MBS3209538)
Molecular Weight	39kDa
OMIM	600865
Product Categories/Family for RTN1 blocking peptide	Peptide
Applications Tested/Suitable for RTN1 blocking peptide	Western Blot (WB)
Related Product Information for RTN1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-RTN1 antibody made Target Description: Reticulons are associated with the endoplasmic reticulum, and are involved in neuroendocrine secretion or in membrane trafficking in neuroendocrine cells.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.
Other Notes	Small volumes of RTN1 blocking peptide 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	MBS3234496 is a blocking peptide targeting RTN1. Also known as RTN1 Peptide - N-terminal region.

ADDITIONAL DETAILS

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

NCBI GI #	45827778
NCBI GeneID	6252
NCBI Accession #	NP_996739
UniProt Primary Accession #	Q16799
UniProt Related Accession #	Q16799
GenBank Nucleotide #	NM_206857
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
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.** Results show that mice deficient in RTN1 are generally normal and that RTN1 is a predominantly expressed in the nervous system, mainly in neurons. In neurons, RTN1 is enriched in dendrites. Also, RTN1 deficiency shows no obvious effects on BACE1 activity due to compensation by RTN3, as RTN1 deficiency causes elevation of RTN3 expression suggesting that RTN1 does not have a prominent role in Alzheimer's pathogenesis.
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