RTN4 cDNA Clone – Reticulon 4 (Human)

PRODUCT OVERVIEW

Product Name	RTN4, cDNA Clone
Full Product Name	RTN4 cDNA Clone
Product Gene Name	RTN4 cdna clone
Sequence	atggaagacc tggaccagtc tcctctggtc tcgtcctcgg acagcccacc ccggccgcag cccgcgttca agtaccagtt cgtgagggag cccgaggacg aggaggaaga agaggaggag gaagaggagg acgaggacga agacctggag gagctggagg tgctggagcg gaagcccgcc gccgggctgt ccgcggcccc agtgcccacc gcccctgccg ccggcgcgcc cctgatggac ttcggaaatg acttcgtgcc gccggcgccc cggggacccc tgccggccgc tcccccccgtc gccccggagc ggcagccgtc ttgggacccg agcccggtgt cgtcgaccgt gcccgcgcca tccccgctgt ctgctgccgc agtctcgccc tccaagctcc ctgaggacga cgagcctccg gcccggcctc cccctcctcc cccggccagc gtgagccccc aggcagagcc cgtgtggacc ccgccagccc cggctcccgc cgcgcccccc tccaccccgg ccgcgcccaa gcgcaggggc tcctcgggct cagtggttgt tgacctcctg tactggagag acattaagaa gactggagtg gtgtttggtg ccagcctatt cctgctgctt tcattgacag tattcagcat tgtgagcgta acagcctaca ttgccttggc cctgctctct gtgaccatca gctttaggat atacaagggt gtgatccaag ctatccagaa atcagatgaa ggccacccat tcagggcata tctggaatct gaagttgcta tatctgagga gttggttcag aagtacagta attctgctct tggtcatgtg aactgcacga taaaggaact caggcgcctc ttcttagttg atgatttagt tgattctctg aagtttgcag tgttgatgtg ggtatttacc tatgttggtg ccttgtttaa tggtctgaca ctactgattt tggctctcat ttcactcttc agtgttcctg ttatttatga acggcatcag gcacagatag atcattatct aggacttgca aataagaatg ttaaagatgc tatggctaaa atccaagcaa aaatccctgg attgaagcgc aaagctgaat ga
Molecular Weight	108,450 Da
OMIM	604475
Vector	Please Inquire
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for RTN4 cdna clone	MBS1272462 is a cDNA clone targeting RTN4.
Other Notes	Small volumes of RTN4 cdna clone 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RTN4. It may not necessarily be applicable to this product.

NCBI GI #	15214977
NCBI GeneID	57142
NCBI Accession #	BC012619
UniProt Secondary Accession #	O94962; Q7L7Q5; Q7L7Q6; Q7L7Q8; Q8IUA4; Q96B16; Q9BXG5; Q9H212; Q9H3I3; Q9UQ42; Q9Y293
UniProt Related Accession #	Q9NQC3
NCBI Official Full Name	Homo sapiens reticulon 4, mRNA
NCBI Official Synonym Full Names	reticulon 4
NCBI Official Symbol	RTN4
NCBI Official Synonym Symbols	ASY; NSP; NOGO; NOGOC; RTN-X; NOGO-A; NSP-CL; Nogo-B; Nogo-C; RTN4-A; RTN4-C; RTN4-B1; RTN4-B2; NI220/250; Nbla00271; Nbla10545
UniProt Protein Name	Reticulon-4

UniProt Synonym Protein Names	Foocen; Neurite outgrowth inhibitor; Nogo protein; Neuroendocrine-specific protein; NSP; Neuroendocrine-specific protein C homolog; RTN-x; Reticulon-5
Protein Family	Reticulon
UniProt Gene Name	RTN4
UniProt Synonym Gene Names	KIAA0886; NOGO; Nogo protein; NSP
UniProt Entry Name	RTN4_HUMAN
NCBI Protein Information	reticulon-4
NCBI Summary for RTN4	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. The product of this gene is a potent neurite outgrowth inhibitor which may also help block the regeneration of the central nervous system in higher vertebrates. Alternatively spliced transcript variants derived both from differential splicing and differential promoter usage and encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]
UniProt Comments for RTN4	Nogo: Developmental neurite growth regulatory factor with a role as a negative regulator of axon-axon adhesion and growth, and as a facilitator of neurite branching. Regulates neurite fasciculation, branching and extension in the developing nervous system. Involved in down-regulation of growth, stabilization of wiring and restriction of plasticity in the adult CNS. Regulates the radial migration of cortical neurons via an RTN4R-LINGO1 containing receptor complex. Isoform 2 reduces the anti-apoptotic activity of Bcl-xl and Bcl-2. This is likely consecutive to their change in subcellular location, from the mitochondria to the endoplasmic reticulum, after binding and sequestration. Isoform 2 and isoform 3 inhibit BACE1 activity and amyloid precursor protein processing. 6 isoforms of the human protein are produced by alternative splicing. Protein type: Inhibitor; Motility/polarity/chemotaxis; Endoplasmic reticulum; Membrane protein, multi-pass; Membrane protein, integral; Cell development/differentiation Chromosomal Location of Human Ortholog: 2p16.3 Cellular Component: cell-cell adherens junction; endoplasmic reticulum; endoplasmic reticulum membrane; integral to endoplasmic reticulum membrane; intracellular; nuclear envelope; plasma membrane Molecular Function: protein binding Biological Process: axonal fasciculation; cerebral cortex radial glia guided migration; negative regulation of axon extension; negative regulation of axonogenesis; negative regulation of cell growth; nuclear pore complex assembly
Research Articles on RTN4	**1.** RTN4-C knockdown blocks cell cycle progression and cell growth in colorectal cancer cell lines.
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