AMOTL2 siRNA – Angiomotin-Like Protein 2 Isoform 1 (Human)

PRODUCT OVERVIEW

Product Name	AMOTL2, siRNA
Full Product Name	AMOTL2 siRNA (Human)
Product Gene Name	AMOTL2 sirna
Product Synonym Names	KIAA0989; Angiomotin-like protein 2; Leman coiled-coil protein; LCCP
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	AMOTL2 siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	91,817 Da
OMIM	614658
3D Structure	ModBase 3D Structure for Q9Y2J4
Negative Control	siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection.
Quality Control	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.
Directions for Use	We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well).
Components	We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of human AMOTL2 gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo.
Applications Tested/Suitable for AMOTL2 sirna	RNA Interference (RNAi)
Related Product Information for AMOTL2 sirna	MBS8221692 is an siRNA targeting AMOTL2. Also known as AMOTL2 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit AMOTL2 expression using RNA interference
Other Notes	Small volumes of AMOTL2 sirna 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 AMOTL2. It may not necessarily be applicable to this product.

NCBI GI #	522838240
NCBI GeneID	51421
NCBI Accession #	NP_001265612.1
UniProt Primary Accession #	Q9Y2J4
UniProt Secondary Accession #	Q53EP1; Q96F99; Q9UKB4; A8K6F1; B7Z5Q1; E9PHW3
UniProt Related Accession #	Q9Y2J4
GenBank Nucleotide #	NM_001278683.1
NCBI Official Full Name	angiomotin-like protein 2 isoform 1
NCBI Official Synonym Full Names	angiomotin like 2
NCBI Official Symbol	AMOTL2
NCBI Official Synonym Symbols	LCCP
UniProt Protein Name	Angiomotin-like protein 2
UniProt Synonym Protein Names	Leman coiled-coil protein; LCCP
Protein Family	Angiomotin-like protein
UniProt Gene Name	AMOTL2
UniProt Synonym Gene Names	KIAA0989; LCCP
UniProt Entry Name	AMOL2_HUMAN
NCBI Protein Information	angiomotin-like protein 2
NCBI Summary for AMOTL2	Angiomotin is a protein that binds angiostatin, a circulating inhibitor of the formation of new blood vessels (angiogenesis). Angiomotin mediates angiostatin inhibition of endothelial cell migration and tube formation in vitro. The protein encoded by this gene is related to angiomotin and is a member of the motin protein family. Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jul 2013]
UniProt Comments for AMOTL2	AMOTL2: Regulates the translocation of phosphorylated SRC to peripheral cell-matrix adhesion sites. Required for proper architecture of actin filaments. Inhibits the Wnt/beta-catenin signaling pathway, probably by recruiting CTNNB1 to recycling endosomes and hence preventing its translocation to the nucleus. Participates in angiogenesis. May play a role in the polarity, proliferation and migration of endothelial cells. Selectively promotes FGF-induced MAPK activation through SRC. Belongs to the angiomotin family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Cell adhesion Chromosomal Location of Human Ortholog: 3q21-q22 Cellular Component: recycling endosome; tight junction; apical plasma membrane; cytoplasmic vesicle; cytosol Molecular Function: identical protein binding; protein binding Biological Process: Wnt receptor signaling pathway
Research Articles on AMOTL2	**1.** Scaffold proteins angiomotin (Amot) and angiomotin-related AmotL1 and AmotL2 were recently identified as negative regulators of YAP and TAZ by preventing their nuclear translocation.
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