RUSC1 siRNA – RUN and SH3 Domain-Containing Protein 1 Isoform 2 (Mouse)

PRODUCT OVERVIEW

Product Name	RUSC1, siRNA
Full Product Name	RUSC1 siRNA (Mouse)
Product Gene Name	RUSC1 sirna
Product Synonym Names	RUN and SH3 domain-containing protein 1
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	RUSC1 siRNA (Mouse) 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	109,515 Da
3D Structure	ModBase 3D Structure for Q8BG26
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 mouse RUSC1 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 RUSC1 sirna	RNA Interference (RNAi)
Related Product Information for RUSC1 sirna	MBS8218226 is an siRNA targeting RUSC1. Also known as RUSC1 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit RUSC1 expression using RNA interference
Other Notes	Small volumes of RUSC1 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 RUSC1. It may not necessarily be applicable to this product.

NCBI GI #	139947575

NCBI GeneID	72296
NCBI Accession #	NP_001077276.1
UniProt Primary Accession #	Q8BG26
UniProt Secondary Accession #	Q6PHT9
UniProt Related Accession #	Q8BG26
GenBank Nucleotide #	NM_001083807.1
NCBI Official Full Name	RUN and SH3 domain-containing protein 1 isoform 2
NCBI Official Synonym Full Names	RUN and SH3 domain containing 1
NCBI Official Symbol	Rusc1
NCBI Official Synonym Symbols	NESCA; AA408288; 2210403N08Rik
UniProt Protein Name	RUN and SH3 domain-containing protein 1
Protein Family	RUN and SH3 domain-containing protein
UniProt Gene Name	Rusc1
UniProt Entry Name	RUSC1_MOUSE
NCBI Protein Information	RUN and SH3 domain-containing protein 1
UniProt Comments for RUSC1	RUSC1: Putative signaling adapter which may play a role in neuronal differentiation. May be involved in regulation of NGF- dependent neurite outgrowth. Proposed to play a role in neuronal vesicular trafficking, specifically involving pre-synaptic membrane proteins. Seems to be involved in signaling pathways that are regulated by the prolonged activation of MAPK. Can regulate the polyubiquitination of IKBKG and thus may be involved in regulation of the NF-kappa-B pathway. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Adaptor/scaffold Cellular Component: microtubule cytoskeleton; Golgi apparatus; microtubule; postsynaptic membrane; cytoskeleton; membrane; early endosome; cytoplasm; plasma membrane; synapse; cytoplasmic vesicle; nucleus; cell junction; endosome Molecular Function: actin binding Biological Process: protein polyubiquitination
Research Articles on RUSC1	**1.** Nesca functions as an adapter involved in neuronal vesicular transport
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