SIPA1L1 siRNA – Signal-Induced Proliferation-Associated 1-Like Protein 1 (Rat)

PRODUCT OVERVIEW

Product Name	SIPA1L1, siRNA
Full Product Name	SIPA1L1 siRNA (Rat)
Product Gene Name	SIPA1L1 sirna
Product Synonym Names	SPA1; Signal-induced proliferation-associated 1-like protein 1; SIPA1-like protein 1; SPA-1-like protein p1294; Spine-associated Rap GTPase-activating protein; SPAR
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SIPA1L1 siRNA (Rat) 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	201,925 Da
3D Structure	ModBase 3D Structure for O35412
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 rat SIPA1L1 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 SIPA1L1 sirna	RNA Interference (RNAi)
Related Product Information for SIPA1L1 sirna	MBS8218857 is an siRNA targeting SIPA1L1. Also known as SIPA1L1 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit SIPA1L1 expression using RNA interference
Other Notes	Small volumes of SIPA1L1 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 SIPA1L1. It may not necessarily be applicable to this product.

NCBI GI #	21326463

NCBI GeneID	246212
NCBI Accession #	NP_647546.1
UniProt Primary Accession #	O35412
UniProt Related Accession #	O35412
GenBank Nucleotide #	NM_139330.1
NCBI Official Full Name	signal-induced proliferation-associated 1-like protein 1
NCBI Official Synonym Full Names	signal-induced proliferation-associated 1 like 1
NCBI Official Symbol	Sipa1l1
NCBI Official Synonym Symbols	SPAL; Spa1; Spar; Spa-1
UniProt Protein Name	Signal-induced proliferation-associated 1-like protein 1
UniProt Synonym Protein Names	SPA-1-like protein p1294; Spine-associated Rap GTPase-activating protein; SPAR
Protein Family	Signal-induced proliferation-associated 1-like protein
UniProt Gene Name	Sipa1l1
UniProt Synonym Gene Names	Spa1; SIPA1-like protein 1; SPAR
UniProt Entry Name	SI1L1_RAT
NCBI Protein Information	signal-induced proliferation-associated 1-like protein 1
NCBI Summary for SIPA1L1	GTPase-activating protein (GAP) that is specific for Rap1; may be involved in cytoskeletal organization of neurons [RGD, Feb 2006]
UniProt Comments for SIPA1L1	SIPA1L1: Stimulates the GTPase activity of RAP2A. Promotes reorganization of the actin cytoskeleton and recruits DLG4 to F- actin. Contributes to the regulation of dendritic spine morphogenesis. 2 isoforms of the human protein are produced by alternative splicing. Protein type: GAPs, Ras; GAPs Cellular Component: postsynaptic membrane; cytoskeleton; protein complex; cell soma; cytoplasm; postsynaptic density; dendritic spine; cell junction Molecular Function: actin filament binding; protein binding; ephrin receptor binding; ubiquitin protein ligase binding; protein complex binding; protein kinase binding; GTPase activator activity Biological Process: regulation of small GTPase mediated signal transduction; regulation of dendrite morphogenesis; actin cytoskeleton reorganization; ephrin receptor signaling pathway; regulation of synaptic plasticity; regulation of axonogenesis; positive regulation of GTPase activity
Research Articles on SIPA1L1	**1.** Prenatal stress increased spar in thr hippocampus of the offspring at adulthood in rats
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