PLXNC1 siRNA – Plexin-C1 (Human)

PRODUCT OVERVIEW

Product Name	PLXNC1, siRNA
Full Product Name	PLXNC1 siRNA (Human)
Product Gene Name	PLXNC1 sirna
Product Synonym Names	VESPR; Plexin-C1; Virus-encoded semaphorin protein receptor; CD antigen CD232
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	PLXNC1 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	175,742 Da
OMIM	604259
3D Structure	ModBase 3D Structure for O60486
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 PLXNC1 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 PLXNC1 sirna	RNA Interference (RNAi)
Related Product Information for PLXNC1 sirna	MBS8228783 is an siRNA targeting PLXNC1. Also known as PLXNC1 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit PLXNC1 expression using RNA interference
Other Notes	Small volumes of PLXNC1 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 PLXNC1. It may not necessarily be applicable to this product.

NCBI GI #	5032223
NCBI GeneID	10154
NCBI Accession #	NP_005752.1
UniProt Primary Accession #	O60486
UniProt Secondary Accession #	Q59H25
UniProt Related Accession #	O60486
GenBank Nucleotide #	NM_005761.2
NCBI Official Full Name	plexin-C1
NCBI Official Synonym Full Names	plexin C1
NCBI Official Symbol	PLXNC1
NCBI Official Synonym Symbols	CD232; VESPR; PLXN-C1
UniProt Protein Name	Plexin-C1
UniProt Synonym Protein Names	Virus-encoded semaphorin protein receptor; CD_antigen: CD232
Protein Family	Plexin
UniProt Gene Name	PLXNC1
UniProt Synonym Gene Names	VESPR
UniProt Entry Name	PLXC1_HUMAN
NCBI Protein Information	plexin-C1
NCBI Summary for PLXNC1	This gene encodes a member of the plexin family. Plexins are transmembrane receptors for semaphorins, a large family of proteins that regulate axon guidance, cell motility and migration, and the immune response. The encoded protein and its ligand regulate melanocyte adhesion, and viral semaphorins may modulate the immune response by binding to this receptor. The encoded protein may be a tumor suppressor protein for melanoma. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Jan 2011]
UniProt Comments for PLXNC1	PLXNC1: Receptor for SEMA7A, for smallpox semaphorin A39R, vaccinia virus semaphorin A39R and for herpesvirus Sema protein. Binding of semaphorins triggers cellular responses leading to the rearrangement of the cytoskeleton and to secretion of IL6 and IL8. Belongs to the plexin family. Protein type: Motility/polarity/chemotaxis; Cell adhesion; Membrane protein, integral Chromosomal Location of Human Ortholog: 12q23.3 Cellular Component: membrane; integral to membrane; plasma membrane; intracellular Molecular Function: protein binding; receptor activity; receptor binding Biological Process: axon guidance; cell adhesion; signal transduction
Research Articles on PLXNC1	**1.** loss of Plexin C1 in melanoma may promote early steps in melanoma progression through suppression of migration and proliferation
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