ARHGAP33 siRNA – Rho Gtpase-Activating Protein 33 Isoform 2 (Human)

PRODUCT OVERVIEW

Product Name	ARHGAP33, siRNA
Full Product Name	ARHGAP33 siRNA (Human)
Product Gene Name	ARHGAP33 sirna
Product Synonym Names	SNX26; TCGAP; Rho GTPase-activating protein 33; Rho-type GTPase-activating protein 33; Sorting nexin-26; Tc10/CDC42 GTPase-activating protein
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	ARHGAP33 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	26,858 Da
OMIM	614902
3D Structure	ModBase 3D Structure for O14559
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 ARHGAP33 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 ARHGAP33 sirna	RNA Interference (RNAi)
Related Product Information for ARHGAP33 sirna	MBS8214758 is an siRNA targeting ARHGAP33. Also known as ARHGAP33 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit ARHGAP33 expression using RNA interference
Other Notes	Small volumes of ARHGAP33 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 ARHGAP33. It may not necessarily be applicable to this product.

NCBI GI #	289547507
NCBI GeneID	115703
NCBI Accession #	NP_001166101.1
UniProt Primary Accession #	O14559
UniProt Secondary Accession #	O14552; O14560; Q6ZSP6; Q96CP3; Q9NT23
UniProt Related Accession #	O14559
GenBank Nucleotide #	NM_001172630.1
NCBI Official Full Name	rho GTPase-activating protein 33 isoform 2
NCBI Official Synonym Full Names	Rho GTPase activating protein 33
NCBI Official Symbol	ARHGAP33
NCBI Official Synonym Symbols	SNX26; TCGAP; NOMA-GAP
UniProt Protein Name	Rho GTPase-activating protein 33
UniProt Synonym Protein Names	Rho-type GTPase-activating protein 33; Sorting nexin-26; Tc10/CDC42 GTPase-activating protein
Protein Family	Rho GTPase-activating protein
UniProt Gene Name	ARHGAP33
UniProt Synonym Gene Names	SNX26; TCGAP
UniProt Entry Name	RHG33_HUMAN
NCBI Protein Information	rho GTPase-activating protein 33
NCBI Summary for ARHGAP33	This gene encodes a member of the sorting nexin family. Members of this family contain a phox (PX) domain, which is a phosphoinositide binding domain, and are involved in intracellular trafficking. Alternative splice variants encoding different isoforms have been identified in this gene. [provided by RefSeq, Feb 2010]
UniProt Comments for ARHGAP33	SNX26: May be involved in several stages of intracellular trafficking. Could play an important role in the regulation of glucose transport by insulin. May act as a downstream effector of RHOQ/TC10 in the regulation of insulin-stimulated glucose transport. Belongs to the PX domain-containing GAP family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: GAPs, Rac/Rho; Vesicle; GAPs Chromosomal Location of Human Ortholog: 19q13.12 Cellular Component: plasma membrane; cytosol Molecular Function: protein binding; phosphoinositide binding Biological Process: regulation of small GTPase mediated signal transduction; protein transport; small GTPase mediated signal transduction
Research Articles on ARHGAP33	**1.** Results show that neurite outgrowth multiadaptor RhoGAP protein, NOMA-GAP, plays an essential role downstream of NGF in promoting neurite outgrowth and extension by recruiting SHP2 and activating Cdc42.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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