RABAC1 siRNA – Prenylated Rab Acceptor Protein 1 (Rat)

PRODUCT OVERVIEW

Product Name	RABAC1, siRNA
Full Product Name	RABAC1 siRNA (Rat)
Product Gene Name	RABAC1 sirna
Product Synonym Names	PRA1; PRAF1; Prenylated Rab acceptor protein 1; PRA1 family protein 1
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	RABAC1 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	20,643 Da
3D Structure	ModBase 3D Structure for O35394
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 RABAC1 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 RABAC1 sirna	RNA Interference (RNAi)
Related Product Information for RABAC1 sirna	MBS8228350 is an siRNA targeting RABAC1. Also known as RABAC1 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit RABAC1 expression using RNA interference
Other Notes	Small volumes of RABAC1 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 RABAC1. It may not necessarily be applicable to this product.

NCBI GI #	13929090

NCBI GeneID	83583
NCBI Accession #	NP_113962.1
UniProt Primary Accession #	O35394
UniProt Related Accession #	O35394
GenBank Nucleotide #	NM_031774.1
NCBI Official Full Name	prenylated Rab acceptor protein 1
NCBI Official Synonym Full Names	Rab acceptor 1 (prenylated)
NCBI Official Symbol	Rabac1
NCBI Official Synonym Symbols	Pra1
UniProt Protein Name	Prenylated Rab acceptor protein 1
UniProt Synonym Protein Names	PRA1 family protein 1
Protein Family	Prenylated Rab acceptor protein
UniProt Gene Name	Rabac1
UniProt Synonym Gene Names	Pra1; Praf1
UniProt Entry Name	PRAF1_RAT
NCBI Protein Information	prenylated Rab acceptor protein 1
NCBI Summary for RABAC1	binds prenylated Rab GTPases and VAMP2; may play a role in vesicle docking and fusion [RGD, Feb 2006]
UniProt Comments for RABAC1	General Rab protein regulator required for vesicle formation from the Golgi complex. May control vesicle docking and fusion by mediating the action of Rab GTPases to the SNARE complexes. In addition it inhibits the removal of Rab GTPases from the membrane by GDI1.
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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