RASSF3 siRNA – Ras Association Domain-Containing Protein 3 (Human)

PRODUCT OVERVIEW

Product Name	RASSF3, siRNA
Full Product Name	RASSF3 siRNA (Human)
Product Gene Name	RASSF3 sirna
Product Synonym Names	Ras association domain-containing protein 3
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	RASSF3 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	10,265 Da
OMIM	607019
3D Structure	ModBase 3D Structure for Q86WH2
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 RASSF3 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 RASSF3 sirna	RNA Interference (RNAi)
Related Product Information for RASSF3 sirna	MBS8221843 is an siRNA targeting RASSF3. Also known as RASSF3 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit RASSF3 expression using RNA interference
Other Notes	Small volumes of RASSF3 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 RASSF3. It may not necessarily be applicable to this product.

NCBI GI #	30039698
NCBI GeneID	283349
NCBI Accession #	NP_835463.1
UniProt Primary Accession #	Q86WH2
UniProt Secondary Accession #	Q86WH1
UniProt Related Accession #	Q86WH2
GenBank Nucleotide #	NM_178169.3
NCBI Official Full Name	ras association domain-containing protein 3
NCBI Official Synonym Full Names	Ras association (RalGDS/AF-6) domain family member 3
NCBI Official Symbol	RASSF3
NCBI Official Synonym Symbols	RASSF5
UniProt Protein Name	Ras association domain-containing protein 3
Protein Family	Ras association domain-containing protein
UniProt Gene Name	RASSF3
UniProt Entry Name	RASF3_HUMAN
NCBI Protein Information	ras association domain-containing protein 3
NCBI Summary for RASSF3	The RAS oncogene (MIM 190020) is mutated in nearly one-third of all human cancers. Members of the RAS superfamily are plasma membrane GTP-binding proteins that modulate intracellular signal transduction pathways. A subfamily of RAS effectors, including RASSF3, share a RAS association (RA) domain.[supplied by OMIM, Jul 2003]
UniProt Comments for RASSF3	RASSF3: 2 isoforms of the human protein are produced by alternative splicing. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 12q14.2 Cellular Component: microtubule; cytoplasm; plasma membrane Molecular Function: identical protein binding; protein binding Biological Process: signal transduction
Research Articles on RASSF3	**1.** low expression is associated with malignant phenotypes in non-small cell lung cancer patients
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