CAPZA2 siRNA – F-Actin-Capping Protein Subunit Alpha-2 (Human)

PRODUCT OVERVIEW

Product Name	CAPZA2, siRNA
Full Product Name	CAPZA2 siRNA (Human)
Product Gene Name	CAPZA2 sirna
Product Synonym Names	F-actin-capping protein subunit alpha-2; CapZ alpha-2
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	CAPZA2 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	19,775 Da
OMIM	601571
3D Structure	ModBase 3D Structure for P47755
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 CAPZA2 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 CAPZA2 sirna	RNA Interference (RNAi)
Related Product Information for CAPZA2 sirna	MBS8201415 is an siRNA targeting CAPZA2. Also known as CAPZA2 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit CAPZA2 expression using RNA interference
Other Notes	Small volumes of CAPZA2 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 CAPZA2. It may not necessarily be applicable to this product.

NCBI GI #	5453599
NCBI GeneID	830
NCBI Accession #	NP_006127.1
UniProt Primary Accession #	P47755
UniProt Secondary Accession #	B4DG50
UniProt Related Accession #	P47755
GenBank Nucleotide #	NM_006136.2
NCBI Official Full Name	F-actin-capping protein subunit alpha-2
NCBI Official Synonym Full Names	capping protein (actin filament) muscle Z-line, alpha 2
NCBI Official Symbol	CAPZA2
NCBI Official Synonym Symbols	CAPZ; CAPPA2
UniProt Protein Name	F-actin-capping protein subunit alpha-2
UniProt Synonym Protein Names	CapZ alpha-2
Protein Family	F-actin-capping protein
UniProt Gene Name	CAPZA2
UniProt Entry Name	CAZA2_HUMAN
NCBI Protein Information	F-actin-capping protein subunit alpha-2
NCBI Summary for CAPZA2	The protein encoded by this gene is a member of the F-actin capping protein alpha subunit family. It is the alpha subunit of the barbed-end actin binding protein Cap Z. By capping the barbed end of actin filaments, Cap Z regulates the growth of the actin filaments at the barbed end. [provided by RefSeq, Jul 2008]
UniProt Comments for CAPZA2	CAPZA2: F-actin-capping proteins bind in a Ca(2+)-independent manner to the fast growing ends of actin filaments (barbed end) thereby blocking the exchange of subunits at these ends. Unlike other capping proteins (such as gelsolin and severin), these proteins do not sever actin filaments. Belongs to the F-actin-capping protein alpha subunit family. Protein type: Cytoskeletal; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 7q31.2-q31.3 Cellular Component: cortical cytoskeleton; F-actin capping protein complex; membrane; extracellular region; cytosol; actin cytoskeleton Molecular Function: actin binding Biological Process: innate immune response; protein complex assembly; cell motility; blood coagulation; barbed-end actin filament capping
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