MICALL2 siRNA – MICAL-Like Protein 2 (Human)

PRODUCT OVERVIEW

Product Name	MICALL2, siRNA
Full Product Name	MICALL2 siRNA (Human)
Product Gene Name	MICALL2 sirna
Product Synonym Names	JRAB; MICAL-like protein 2; Junctional Rab13-binding protein; Molecule interacting with CasL-like 2; MICAL-L2
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MICALL2 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	74,527 Da
3D Structure	ModBase 3D Structure for Q8IY33
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 MICALL2 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 MICALL2 sirna	RNA Interference (RNAi)
Related Product Information for MICALL2 sirna	MBS8213188 is an siRNA targeting MICALL2. Also known as MICALL2 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit MICALL2 expression using RNA interference
Other Notes	Small volumes of MICALL2 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 MICALL2. It may not necessarily be applicable to this product.

NCBI GI #	33667117

NCBI GeneID	79778
NCBI Accession #	NP_891554.1
UniProt Primary Accession #	Q8IY33
UniProt Secondary Accession #	Q7RTP4; Q7Z655; Q8TEQ4; Q9H5F9; D3YTD2
UniProt Related Accession #	Q8IY33
GenBank Nucleotide #	NM_182924.3
NCBI Official Full Name	MICAL-like protein 2
NCBI Official Synonym Full Names	MICAL-like 2
NCBI Official Symbol	MICALL2
NCBI Official Synonym Symbols	JRAB; MICAL-L2
UniProt Protein Name	MICAL-like protein 2
UniProt Synonym Protein Names	Junctional Rab13-binding protein; Molecule interacting with CasL-like 2; MICAL-L2
Protein Family	MICAL-like protein
UniProt Gene Name	MICALL2
UniProt Synonym Gene Names	JRAB; MICAL-L2
UniProt Entry Name	MILK2_HUMAN
NCBI Protein Information	MICAL-like protein 2
UniProt Comments for MICALL2	MICALL2: May be a cytoskeletal regulator. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Cell adhesion Chromosomal Location of Human Ortholog: 7p22.3 Cellular Component: recycling endosome; neuron projection; tight junction; actin filament bundle; stress fiber; plasma membrane; intercellular junction; cytosol Molecular Function: actin filament binding; actinin binding; zinc ion binding; filamin binding; Rab GTPase binding Biological Process: actin filament polymerization; actin cytoskeleton reorganization; endocytic recycling; neurite development
Research Articles on MICALL2	**1.** Data indicate that MICAL-L2 may be an important regulator of epithelial-mesenchymal transition (EMT) in ovarian cancer cells.
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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