MAB21L1 siRNA – Protein Mab-21-Like 1 (Human)

PRODUCT OVERVIEW

Product Name	MAB21L1, siRNA
Full Product Name	MAB21L1 siRNA (Human)
Product Gene Name	MAB21L1 sirna
Product Synonym Names	CAGR1; Protein mab-21-like 1
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MAB21L1 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	40,956 Da
OMIM	601280
3D Structure	ModBase 3D Structure for Q13394
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 MAB21L1 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 MAB21L1 sirna	RNA Interference (RNAi)
Related Product Information for MAB21L1 sirna	MBS8228458 is an siRNA targeting MAB21L1. Also known as MAB21L1 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit MAB21L1 expression using RNA interference
Other Notes	Small volumes of MAB21L1 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 MAB21L1. It may not necessarily be applicable to this product.

NCBI GI #	5031897
NCBI GeneID	4081
NCBI Accession #	NP_005575.1
UniProt Primary Accession #	Q13394
UniProt Secondary Accession #	Q6I9T5
UniProt Related Accession #	Q13394
GenBank Nucleotide #	NM_005584.4
NCBI Official Full Name	protein mab-21-like 1
NCBI Official Synonym Full Names	mab-21-like 1 (C. elegans)
NCBI Official Symbol	MAB21L1
NCBI Official Synonym Symbols	CAGR1; Nbla00126
UniProt Protein Name	Protein mab-21-like 1
Protein Family	Protein mab
UniProt Gene Name	MAB21L1
UniProt Synonym Gene Names	CAGR1
UniProt Entry Name	MB211_HUMAN
NCBI Protein Information	protein mab-21-like 1
NCBI Summary for MAB21L1	This gene is similar to the MAB-21 cell fate-determining gene found in C. elegans. It may be involved in eye and cerebellum development, and it has been proposed that expansion of a trinucleotide repeat region in the 5' UTR may play a role in a variety of psychiatric disorders. [provided by RefSeq, Oct 2008]
UniProt Comments for MAB21L1	MAB21L1: Required for several aspects of embryonic development including normal development of the eye. Belongs to the mab-21 family. Protein type: Cell cycle regulation Chromosomal Location of Human Ortholog: 13q13 Cellular Component: nucleus Biological Process: anatomical structure morphogenesis; camera-type eye development; positive regulation of cell proliferation
Research Articles on MAB21L1	**1.** MEF is involved in PTH suppression of osteoblasts through activating the MKK4/JNK1 pathway and subsequently up-regulating Mab21l1 expression.
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