BARHL2 siRNA – Barh-Like 2 Homeobox Protein (Mouse)

PRODUCT OVERVIEW

Product Name	BARHL2, siRNA
Full Product Name	BARHL2 siRNA (Mouse)
Product Gene Name	BARHL2 sirna
Product Synonym Names	BARH1; MBH1; BarH-like 2 homeobox protein; Bar-class homeodomain protein MBH1; Homeobox protein B-H1
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	BARHL2 siRNA (Mouse) 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	41,459 Da
3D Structure	ModBase 3D Structure for Q8VIB5
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 mouse BARHL2 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 BARHL2 sirna	RNA Interference (RNAi)
Related Product Information for BARHL2 sirna	MBS8221931 is an siRNA targeting BARHL2. Also known as BARHL2 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit BARHL2 expression using RNA interference
Other Notes	Small volumes of BARHL2 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 BARHL2. It may not necessarily be applicable to this product.

NCBI GI #	56699436

NCBI GeneID	104382
NCBI Accession #	NP_001005477.1
UniProt Primary Accession #	Q8VIB5
UniProt Secondary Accession #	Q66L43
UniProt Related Accession #	Q8VIB5
GenBank Nucleotide #	NM_001005477.1
NCBI Official Full Name	barH-like 2 homeobox protein
NCBI Official Synonym Full Names	BarH-like 2 (Drosophila)
NCBI Official Symbol	Barhl2
NCBI Official Synonym Symbols	MBH1; E130309B19Rik
UniProt Protein Name	BarH-like 2 homeobox protein
UniProt Synonym Protein Names	Bar-class homeodomain protein MBH1; Homeobox protein B-H1
Protein Family	BarH-like 2 homeobox protein
UniProt Gene Name	Barhl2
UniProt Synonym Gene Names	Barh1; Mbh1
UniProt Entry Name	BARH2_MOUSE
NCBI Protein Information	barH-like 2 homeobox protein
UniProt Comments for BARHL2	BARHL2: Potential regulator of neural basic helix-loop-helix genes. Belongs to the BAR homeobox family. Cellular Component: nucleoplasm; cytoplasm; nucleus Molecular Function: DNA binding; sequence-specific DNA binding; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; nervous system development; cell fate commitment; transcription, DNA-dependent; positive regulation of translation; multicellular organismal development; neuron migration; regulation of axon extension; cell fate determination; neuron differentiation; regulation of transcription from RNA polymerase II promoter; regulation of transcription, DNA-dependent; positive regulation of transcription from RNA polymerase II promoter
Research Articles on BARHL2	**1.** results elucidate BARHL2 as a critical postmitotic regulator of dI1 subtype diversification, as well as its intermediate position in the dI1 genetic hierarchy
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