KIF15 siRNA – Kinesin-Like Protein KIF15 (Human)

PRODUCT OVERVIEW

Product Name	KIF15, siRNA
Full Product Name	KIF15 siRNA (Human)
Product Gene Name	KIF15 sirna
Product Synonym Names	KLP2; KNSL7; Kinesin-like protein KIF15; Kinesin-like protein 2; hKLP2; Kinesin-like protein 7; Serologically defined breast cancer antigen NY-BR-62
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	KIF15 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	137,169 Da
3D Structure	ModBase 3D Structure for Q9NS87
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 KIF15 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 KIF15 sirna	RNA Interference (RNAi)
Related Product Information for KIF15 sirna	MBS8201848 is an siRNA targeting KIF15. Also known as KIF15 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit KIF15 expression using RNA interference
Other Notes	Small volumes of KIF15 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 KIF15. It may not necessarily be applicable to this product.

NCBI GI #	9910266

NCBI GeneID	56992
NCBI Accession #	NP_064627.1
UniProt Primary Accession #	Q9NS87
UniProt Secondary Accession #	Q17RV9; Q69YL6; Q96JX7; Q9H280
UniProt Related Accession #	Q9NS87
GenBank Nucleotide #	NM_020242.2
NCBI Official Full Name	kinesin-like protein KIF15
NCBI Official Synonym Full Names	kinesin family member 15
NCBI Official Symbol	KIF15
NCBI Official Synonym Symbols	HKLP2; KNSL7; NY-BR-62
UniProt Protein Name	Kinesin-like protein KIF15
UniProt Synonym Protein Names	Kinesin-like protein 2; hKLP2; Kinesin-like protein 7; Serologically defined breast cancer antigen NY-BR-62
Protein Family	Kinesin-like protein
UniProt Gene Name	KIF15
UniProt Synonym Gene Names	KLP2; KNSL7; hKLP2
UniProt Entry Name	KIF15_HUMAN
NCBI Protein Information	kinesin-like protein KIF15
UniProt Comments for KIF15	KIF15: Plus-end directed kinesin-like motor enzyme involved in mitotic spindle assembly. Belongs to the kinesin-like protein family. KLP2 subfamily. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Motor; Microtubule-binding Chromosomal Location of Human Ortholog: 3p21.31 Cellular Component: plus-end kinesin complex; centrosome; microtubule; kinesin complex; membrane; spindle; cytosol Molecular Function: DNA binding; microtubule binding; ATPase activity; motor activity; microtubule motor activity; ATP binding Biological Process: cell proliferation; mitosis; metabolic process; antigen processing and presentation of exogenous peptide antigen via MHC class II; blood coagulation; microtubule-based movement
Research Articles on KIF15	**1.** Eg5, Kif15, and dynein work together to build a bipolar spindle and reveal an important role for antagonistic motors in chromosome segregation.
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