KLHL20 siRNA – Kelch-Like Protein 20 (Human)

PRODUCT OVERVIEW

Product Name	KLHL20, siRNA
Full Product Name	KLHL20 siRNA (Human)
Product Gene Name	KLHL20 sirna
Product Synonym Names	KLEIP; Kelch-like protein 20; Kelch-like ECT2-interacting protein; Kelch-like protein X
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	KLHL20 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	46,490 Da
3D Structure	ModBase 3D Structure for Q9Y2M5
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 KLHL20 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 KLHL20 sirna	RNA Interference (RNAi)
Related Product Information for KLHL20 sirna	MBS8213997 is an siRNA targeting KLHL20. Also known as KLHL20 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit KLHL20 expression using RNA interference
Other Notes	Small volumes of KLHL20 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 KLHL20. It may not necessarily be applicable to this product.

NCBI GI #	40807500

NCBI GeneID	27252
NCBI Accession #	NP_055273.2
UniProt Primary Accession #	Q9Y2M5
UniProt Secondary Accession #	Q5TZF2; Q5ZF45; Q9H457; B3KMA0; B4DUR0
UniProt Related Accession #	Q9Y2M5
GenBank Nucleotide #	NM_014458.3
NCBI Official Full Name	kelch-like protein 20
NCBI Official Synonym Full Names	kelch-like family member 20
NCBI Official Symbol	KLHL20
NCBI Official Synonym Symbols	KHLHX; KLEIP; KLHLX
UniProt Protein Name	Kelch-like protein 20
UniProt Synonym Protein Names	Kelch-like ECT2-interacting protein; Kelch-like protein X
Protein Family	Kelch-like protein
UniProt Gene Name	KLHL20
UniProt Synonym Gene Names	KLEIP
UniProt Entry Name	KLH20_HUMAN
NCBI Protein Information	kelch-like protein 20
NCBI Summary for KLHL20	The protein encoded by this gene is a member of the kelch family of proteins, which is characterized by a 44-56 amino acid repeat motif. The kelch motif appears in many different polypeptide contexts and contains multiple potential protein-protein contact sites. Members of this family are present both throughout the cell and extracellularly, with diverse activities. [provided by RefSeq, Jul 2008]
UniProt Comments for KLHL20	KLHL20: Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex involved in interferon response. The BCR(KLHL20) E3 ubiquitin ligase complex mediates the ubiquitination of DAPK1, leading to its degradation by the proteasome, thereby acting as a negative regulator of apoptosis. Also acts as a regulator of endothelial migration during angiogenesis by controlling the activation of Rho GTPases. Chromosomal Location of Human Ortholog: 1q25.1 Cellular Component: Golgi apparatus; PML body; axon; perinuclear region of cytoplasm; cytoplasm; dendrite; trans-Golgi network; actin cytoskeleton Molecular Function: protein binding; interferon-gamma binding; ubiquitin-protein ligase activity; actin binding Biological Process: proteasomal ubiquitin-dependent protein catabolic process; protein transport; Golgi to endosome transport; protein ubiquitination; cytoskeleton organization and biogenesis; negative regulation of apoptosis
Research Articles on KLHL20	**1.** study reveals a function of KLHL20-mediated, K33-linked ubiquitination of Crn7 in the assembly of (trans-Golgi network)TGN-associated F-actin to promote post-Golgi trafficking and identifies a cellular decoding mechanism for this ubiquitin chain type.
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