ASB2 siRNA – Ankyrin Repeat and SOCS Box Protein 2 Isoform 1 (Human)

PRODUCT OVERVIEW

Product Name	ASB2, siRNA
Full Product Name	ASB2 siRNA (Human)
Product Gene Name	ASB2 sirna
Product Synonym Names	Ankyrin repeat and SOCS box protein 2; ASB-2
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	ASB2 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	70,212 Da
OMIM	605759
3D Structure	ModBase 3D Structure for Q96Q27
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 ASB2 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 ASB2 sirna	RNA Interference (RNAi)
Related Product Information for ASB2 sirna	MBS8204488 is an siRNA targeting ASB2. Also known as ASB2 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit ASB2 expression using RNA interference
Other Notes	Small volumes of ASB2 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 ASB2. It may not necessarily be applicable to this product.

NCBI GI #	321117514
NCBI GeneID	51676
NCBI Accession #	NP_001189358.1
UniProt Primary Accession #	Q96Q27
UniProt Secondary Accession #	Q9NSU5; Q9Y567; B2RDP9; B4E166
UniProt Related Accession #	Q96Q27
GenBank Nucleotide #	NM_001202429.1
NCBI Official Full Name	ankyrin repeat and SOCS box protein 2 isoform 1
NCBI Official Synonym Full Names	ankyrin repeat and SOCS box containing 2
NCBI Official Symbol	ASB2
NCBI Official Synonym Symbols	ASB-2
UniProt Protein Name	Ankyrin repeat and SOCS box protein 2
Protein Family	Ankyrin repeat and SOCS box protein
UniProt Gene Name	ASB2
UniProt Synonym Gene Names	ASB-2
UniProt Entry Name	ASB2_HUMAN
NCBI Protein Information	ankyrin repeat and SOCS box protein 2
NCBI Summary for ASB2	This gene encodes a member of the ankyrin repeat and SOCS box-containing (ASB) protein family. These proteins play a role in protein degradation by coupling suppressor of cytokine signalling (SOCS) proteins with the elongin BC complex. The encoded protein is a subunit of a multimeric E3 ubiquitin ligase complex that mediates the degradation of actin-binding proteins. This gene plays a role in retinoic acid-induced growth inhibition and differentiation of myeloid leukemia cells. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2011]
UniProt Comments for ASB2	ASB2: Probable substrate-recognition component of a SCF-like ECS (Elongin-Cullin-SOCS-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Unknown function Chromosomal Location of Human Ortholog: 14q31-q32 Cellular Component: Cul5-RING ubiquitin ligase complex Molecular Function: protein binding; ubiquitin-protein ligase activity Biological Process: myoblast differentiation; protein polyubiquitination; protein ubiquitination during ubiquitin-dependent protein catabolic process; signal transduction
Research Articles on ASB2	**1.** Phosphorylation of serine 323 of ASB2 alpha by Erk kinases is critical for ASB2alpha-mediated degradation of FLNA.
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