ITGB1BP2 siRNA – Integrin Beta-1-Binding Protein 2 Isoform 2 (Human)

PRODUCT OVERVIEW

Product Name	ITGB1BP2, siRNA
Full Product Name	ITGB1BP2 siRNA (Human)
Product Gene Name	ITGB1BP2 sirna
Product Synonym Names	Integrin beta-1-binding protein 2; Melusin
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	ITGB1BP2 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	36,374 Da
OMIM	300332
3D Structure	ModBase 3D Structure for Q9UKP3
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 ITGB1BP2 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 ITGB1BP2 sirna	RNA Interference (RNAi)
Related Product Information for ITGB1BP2 sirna	MBS8201522 is an siRNA targeting ITGB1BP2. Also known as ITGB1BP2 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit ITGB1BP2 expression using RNA interference
Other Notes	Small volumes of ITGB1BP2 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 ITGB1BP2. It may not necessarily be applicable to this product.

NCBI GI #	740086415
NCBI GeneID	26548
NCBI Accession #	NP_001290206.1
UniProt Primary Accession #	Q9UKP3
UniProt Secondary Accession #	Q32N04; Q549J7
UniProt Related Accession #	Q9UKP3
GenBank Nucleotide #	NM_001303277.1
NCBI Official Full Name	integrin beta-1-binding protein 2 isoform 2
NCBI Official Synonym Full Names	integrin beta 1 binding protein (melusin) 2
NCBI Official Symbol	ITGB1BP2
NCBI Official Synonym Symbols	CHORDC3; ITGB1BP; MELUSIN; MSTP015
UniProt Protein Name	Integrin beta-1-binding protein 2
UniProt Synonym Protein Names	Melusin
Protein Family	Integrin beta-1-binding protein
UniProt Gene Name	ITGB1BP2
UniProt Entry Name	ITBP2_HUMAN
NCBI Protein Information	integrin beta-1-binding protein 2
UniProt Comments for ITGB1BP2	ITGB1BP2: May play a role during maturation and/or organization of muscles cells. Chromosomal Location of Human Ortholog: Xq12-q13.1 Cellular Component: Z disc Molecular Function: integrin binding; protein binding; zinc ion binding; calcium ion binding; SH3 domain binding Biological Process: muscle development; signal transduction
Research Articles on ITGB1BP2	**1.** Chp-1 and melusin can interact with cochaperones PP5 and Sgt1 and with each other in an ATP-dependent manner
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