ZBTB7B siRNA – Zinc Finger and BTB Domain-Containing Protein 7b (Mouse)

PRODUCT OVERVIEW

Product Name	ZBTB7B, siRNA
Full Product Name	ZBTB7B siRNA (Mouse)
Product Gene Name	ZBTB7B sirna
Product Synonym Names	THPOK; ZFP67; Zinc finger and BTB domain-containing protein 7B; Krueppel-related zinc finger protein cKrox; c-Krox; T-helper-inducing POZ/Krueppel-like factor; Zinc finger protein 67; Zfp-67; Zinc finger protein Th-POK
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	ZBTB7B 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	58,918 Da
3D Structure	ModBase 3D Structure for Q64321
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 ZBTB7B 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 ZBTB7B sirna	RNA Interference (RNAi)
Related Product Information for ZBTB7B sirna	MBS8200506 is an siRNA targeting ZBTB7B. Also known as ZBTB7B siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit ZBTB7B expression using RNA interference
Other Notes	Small volumes of ZBTB7B 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 ZBTB7B. It may not necessarily be applicable to this product.

NCBI GI #	47059087
NCBI GeneID	22724
NCBI Accession #	NP_033591.2
UniProt Primary Accession #	Q64321
UniProt Secondary Accession #	Q80VV5
UniProt Related Accession #	Q64321
GenBank Nucleotide #	NM_009565.4
NCBI Official Full Name	zinc finger and BTB domain-containing protein 7B
NCBI Official Synonym Full Names	zinc finger and BTB domain containing 7B
NCBI Official Symbol	Zbtb7b
NCBI Official Synonym Symbols	Thpok; Zfp67; c-Krox
UniProt Protein Name	Zinc finger and BTB domain-containing protein 7B
UniProt Synonym Protein Names	Krueppel-related zinc finger protein cKrox; c-Krox; T-helper-inducing POZ/Krueppel-like factor; Zinc finger protein 67; Zfp-67; Zinc finger protein Th-POK
Protein Family	Zinc finger and BTB domain-containing protein
UniProt Gene Name	Zbtb7b
UniProt Synonym Gene Names	Thpok; Zfp67; c-Krox; Zfp-67
UniProt Entry Name	ZBT7B_MOUSE
NCBI Protein Information	zinc finger and BTB domain-containing protein 7B
UniProt Comments for ZBTB7B	ZBTB7B: Transcription regulator that acts as a key regulator of lineage commitment of immature T-cell precursors. Necessary and sufficient for commitment of CD4 lineage, while its absence causes CD8 commitment. Development of immature T-cell precursors (thymocytes) to either the CD4 helper or CD8 killer T-cell lineages correlates precisely with their T-cell receptor specificity for major histocompatibility complex class II or class I molecules, respectively. Transcriptional repressor of the collagen COL1A1 and COL1A2 genes. May also function as a repressor of fibronectin and possibly other extracellular matrix genes. Protein type: C2H2-type zinc finger protein Cellular Component: nucleoplasm; nucleus Molecular Function: protein binding; protein homodimerization activity; nucleic acid binding; DNA binding; metal ion binding; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; transcription, DNA-dependent; regulation of transcription, DNA-dependent; multicellular organismal development; positive regulation of transcription from RNA polymerase II promoter; cell differentiation; regulation of CD4-positive, alpha beta T cell differentiation; regulation of CD8-positive, alpha-beta T cell differentiation
Research Articles on ZBTB7B	**1.** Data indicate that transcription factors Thpok and LRF redundantly maintain CD4+ lineage integrity.
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