PRDM5 siRNA – Pr Domain Zinc Finger Protein 5 (Mouse)

PRODUCT OVERVIEW

Product Name	PRDM5, siRNA
Full Product Name	PRDM5 siRNA (Mouse)
Product Gene Name	PRDM5 sirna
Product Synonym Names	PR domain zinc finger protein 5; PR domain-containing protein 5
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	PRDM5 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	69,550 Da
3D Structure	ModBase 3D Structure for Q9CXE0
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 PRDM5 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 PRDM5 sirna	RNA Interference (RNAi)
Related Product Information for PRDM5 sirna	MBS8230969 is an siRNA targeting PRDM5. Also known as PRDM5 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit PRDM5 expression using RNA interference
Other Notes	Small volumes of PRDM5 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 PRDM5. It may not necessarily be applicable to this product.

NCBI GI #	124286828

NCBI GeneID	70779
NCBI Accession #	NP_081823.2
UniProt Primary Accession #	Q9CXE0
UniProt Secondary Accession #	B2RSK8
UniProt Related Accession #	Q9CXE0
GenBank Nucleotide #	NM_027547.2
NCBI Official Full Name	PR domain zinc finger protein 5
NCBI Official Synonym Full Names	PR domain containing 5
NCBI Official Symbol	Prdm5
NCBI Official Synonym Symbols	PFM2; AI197291; 4432417F03Rik; 6530401I24Rik; E130112L17Rik
UniProt Protein Name	PR domain zinc finger protein 5
UniProt Synonym Protein Names	PR domain-containing protein 5
Protein Family	PR domain zinc finger protein
UniProt Gene Name	Prdm5
UniProt Entry Name	PRDM5_MOUSE
NCBI Protein Information	PR domain zinc finger protein 5

UniProt Comments for PRDM5	PRDM5: Sequence-specific DNA-binding transcription factor. Represses transcription at least in part by recruitment of the histone methyltransferase EHMT2/G9A and histone deacetylases such as HDAC1. Regulates hematopoiesis-associated protein-coding and microRNA (miRNA) genes. May regulate the expression of proteins involved in extracellular matrix development and maintenance, including fibrillar collagens, such as COL4A1 and COL11A1, connective tissue components, such as HAPLN1, and molecules regulating cell migration and adhesion, including EDIL3 and TGFB2. May caused G2/M arrest and apoptosis in cancer cells. Defects in PRDM5 are the cause of Brittle cornea syndrome type 2 (BCS2). A disorder characterized by extreme corneal thinning resulting in corneal rupture after minor trauma, blue sclerae, keratoconus or keratoglobus, hyperelasticity of the skin, and hypermobile joints. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor; DNA-binding; C2H2-type zinc finger protein; Methyltransferase, protein lysine, predicted Cellular Component: nucleus Molecular Function: methyltransferase activity; trimethylamine methyltransferase activity; monomethylamine methyltransferase activity; RNA methyltransferase activity; tRNA (cytosine)-methyltransferase activity; rRNA (cytosine-C5-967)-methyltransferase activity; rRNA (uridine) methyltransferase activity; N-methyltransferase activity; tRNA (guanine) methyltransferase activity; rRNA (adenine-N6,N6-)-dimethyltransferase activity; selenocysteine methyltransferase activity; arginine N-methyltransferase activity; protein-arginine N-methyltransferase activity; methanol-specific methylcobalamin:coenzyme M methyltransferase activity; tRNA (guanine-N2-)-methyltransferase activity; dimethylamine methyltransferase activity; protein methyltransferase activity; 2-polyprenyl-6-methoxy-1,4-benzoquinone methyltransferase activity; transferase activity; hydroxyneurosporene-O-methyltransferase activity; rRNA (uridine-2'-O-)-methyltransferase activity; tRNA (uracil) methyltransferase activity; rRNA (adenine) methyltransferase activity; C-methyltransferase activity; cobalt-precorrin-6B C5-methyltransferase activity; cobalt-precorrin-3 C17-methyltransferase activity; 1-phenanthrol methyltransferase activity; metal ion binding; S-methyltransferase activity; lysine N-methyltransferase activity; DNA-methyltransferase activity; tRNA (cytosine-5-)-methyltransferase activity; C-terminal protein carboxyl methyltransferase activity; tRNA (adenine)-methyltransferase activity; nucleic acid binding; rRNA (cytosine) methyltransferase activity; sequence-specific DNA binding; cobalt-precorrin-7 C15-methyltransferase activity; protein-arginine N5-methyltransferase activity; rRNA methyltransferase activity; protein-leucine O-methyltransferase activity; demethylmenaquinone methyltransferase activity; rRNA (adenine-N6-)-methyltransferase activity; tRNA methyltransferase activity; rRNA (guanine) methyltransferase activity; methylarsonite methyltransferase activity; mRNA methyltransferase activity; methylamine-specific methylcobalamin:coenzyme M methyltransferase activity; DNA binding; tRNA (guanine-N1-)-methyltransferase activity; cobalt-precorrin-5B C1-methyltransferase activity; protein-lysine N-methyltransferase activity; O-methyltransferase activity; tRNA (adenine-57, 58-N(1)-) methyltransferase activity; tRNA (adenine-N1-)-methyltransferase activity Biological Process: methylation; transcription from RNA polymerase II promoter; regulation of transcription, DNA-dependent; transcription, DNA-dependent; histone deacetylation; negative regulation of transcription from RNA polymerase II promoter; mitotic cell cycle; chromatin modification; negative regulation of transcription, DNA-dependent; histone H3-K9 methylation
Research Articles on PRDM5	**1.** Data provide the first causal link between Prdm5 loss and intestinal carcinogenesis, and uncover an extensive and novel PRDM5 target repertoire likely facilitating the tumor-suppressive functions of PRDM5.
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