RFXAP siRNA – Regulatory Factor X-Associated Protein (Mouse)

PRODUCT OVERVIEW

Product Name	RFXAP, siRNA
Full Product Name	RFXAP siRNA (Mouse)
Product Gene Name	RFXAP sirna
Product Synonym Names	Regulatory factor X-associated protein; RFX-associated protein
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	RFXAP 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	24,787 Da
3D Structure	ModBase 3D Structure for Q8VCG9
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 RFXAP 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 RFXAP sirna	RNA Interference (RNAi)
Related Product Information for RFXAP sirna	MBS8221376 is an siRNA targeting RFXAP. Also known as RFXAP siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit RFXAP expression using RNA interference
Other Notes	Small volumes of RFXAP 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 RFXAP. It may not necessarily be applicable to this product.

NCBI GI #	18875392

NCBI GeneID	170767
NCBI Accession #	NP_573494.1
UniProt Primary Accession #	Q8VCG9
UniProt Secondary Accession #	Q91Y54
UniProt Related Accession #	Q8VCG9
GenBank Nucleotide #	NM_133231.2
NCBI Official Full Name	regulatory factor X-associated protein
NCBI Official Synonym Full Names	regulatory factor X-associated protein
NCBI Official Symbol	Rfxap
NCBI Official Synonym Symbols	5730495K23Rik
UniProt Protein Name	Regulatory factor X-associated protein
Protein Family	Regulatory factor X-associated protein
UniProt Gene Name	Rfxap
UniProt Synonym Gene Names	RFX-associated protein
UniProt Entry Name	RFXAP_MOUSE
NCBI Protein Information	regulatory factor X-associated protein
UniProt Comments for RFXAP	RFXAP: Part of the RFX complex that binds to the X-box of MHC II promoters. Defects in RFXAP are a cause of bare lymphocyte syndrome type 2 (BLS2); also known as hereditary MHC class II deficiency or HLA class II-deficient combined immunodeficiency. BLS2 is a severe combined immunodeficiency disease with early onset. It is characterized by a profound defect in constitutive and interferon-gamma induced MHC II expression, absence of cellular and humoral T-cell response to antigen challenge, hypogammaglobulinemia and impaired antibody production. The consequence include extreme susceptibility to viral, bacterial and fungal infections. Protein type: DNA-binding Cellular Component: nucleus Molecular Function: DNA binding Biological Process: positive regulation of transcription, DNA-dependent
Research Articles on RFXAP	**1.** Invitro transcription/translation and transfection studies described here show that non-AUG (ACG) codon functions as a translation initiation codon.
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