RBP4 siRNA – Retinol-Binding Protein 4 (Rat)

PRODUCT OVERVIEW

Product Name	RBP4, siRNA
Full Product Name	RBP4 siRNA (Rat)
Product Gene Name	RBP4 sirna
Product Synonym Names	Retinol-binding protein 4; Plasma retinol-binding protein; PRBP; RBP
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	RBP4 siRNA (Rat) 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	23,220 Da
3D Structure	ModBase 3D Structure for P04916
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 rat RBP4 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 RBP4 sirna	RNA Interference (RNAi)
Related Product Information for RBP4 sirna	MBS8221545 is an siRNA targeting RBP4. Also known as RBP4 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit RBP4 expression using RNA interference
Other Notes	Small volumes of RBP4 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 RBP4. It may not necessarily be applicable to this product.

NCBI GI #	158187535
NCBI GeneID	25703

NCBI Accession #	NP_037294.1
UniProt Primary Accession #	P04916
UniProt Related Accession #	P04916
GenBank Nucleotide #	NM_013162.1
NCBI Official Full Name	retinol-binding protein 4
NCBI Official Synonym Full Names	retinol binding protein 4, plasma
NCBI Official Symbol	Rbp4
NCBI Official Synonym Symbols	RBPA
UniProt Protein Name	Retinol-binding protein 4
UniProt Synonym Protein Names	Plasma retinol-binding protein; PRBP; RBP
Protein Family	Retinol-binding protein
UniProt Gene Name	Rbp4
UniProt Synonym Gene Names	PRBP; RBP
UniProt Entry Name	RET4_RAT
NCBI Protein Information	retinol-binding protein 4
NCBI Summary for RBP4	may play a role in vitamin A transport [RGD, Feb 2006]
UniProt Comments for RBP4	Delivers retinol from the liver stores to the peripheral tissues. In plasma, the RBP-retinol complex interacts with transthyretin, this prevents its loss by filtration through the kidney glomeruli.
Research Articles on RBP4	**1.** Retinol binding protein 4 promotes hyperinsulinisminduced proliferation of rat aortic smooth muscle cells.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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