AEBP2 siRNA – Zinc Finger Protein AEBP2 Isoform 1 (Mouse)

PRODUCT OVERVIEW

Product Name	AEBP2, siRNA
Full Product Name	AEBP2 siRNA (Mouse)
Product Gene Name	AEBP2 sirna
Product Synonym Names	Zinc finger protein AEBP2; Adipocyte enhancer-binding protein 2; AE-binding protein 2
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	AEBP2 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	44,767 Da
3D Structure	ModBase 3D Structure for Q9Z248
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 AEBP2 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 AEBP2 sirna	RNA Interference (RNAi)
Related Product Information for AEBP2 sirna	MBS8204045 is an siRNA targeting AEBP2. Also known as AEBP2 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit AEBP2 expression using RNA interference
Other Notes	Small volumes of AEBP2 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 AEBP2. It may not necessarily be applicable to this product.

NCBI GI #	54112427

NCBI GeneID	11569
NCBI Accession #	NP_001005605.1
UniProt Primary Accession #	Q9Z248
UniProt Secondary Accession #	Q6PF91; Q78HB0; Q8BGV1; Q8CE51
UniProt Related Accession #	Q9Z248
GenBank Nucleotide #	NM_001005605.2
NCBI Official Full Name	zinc finger protein AEBP2 isoform 1
NCBI Official Synonym Full Names	AE binding protein 2
NCBI Official Symbol	Aebp2
NCBI Official Synonym Symbols	AU023766; B230313N05Rik
UniProt Protein Name	Zinc finger protein AEBP2
UniProt Synonym Protein Names	Adipocyte enhancer-binding protein 2; AE-binding protein 2
Protein Family	Zinc finger protein
UniProt Gene Name	Aebp2
UniProt Synonym Gene Names	AE-binding protein 2
UniProt Entry Name	AEBP2_MOUSE
NCBI Protein Information	zinc finger protein AEBP2
UniProt Comments for AEBP2	AEBP2: DNA-binding transcriptional repressor. May interact with and stimulate the activity of the PRC2 complex, which methylates 'Lys-9' and 'Lys-27' residues of histone H3. Belongs to the AEBP2/jing C2H2-type zinc-finger family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription, coactivator/corepressor; Motility/polarity/chemotaxis; C2H2-type zinc finger protein Cellular Component: ESC/E(Z) complex; nucleus Molecular Function: nucleic acid binding; DNA binding; metal ion binding; transcription corepressor activity Biological Process: transcription from RNA polymerase II promoter; transcription, DNA-dependent; regulation of transcription, DNA-dependent; chromatin modification; negative regulation of transcription from RNA polymerase II promoter
Research Articles on AEBP2	**1.** A large fraction of AEBP2's target loci also map closely to the known target loci of the Polycomb Repression Complex PRC2.
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