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SignalSilence® hnRNP E1 siRNA I



✓ 10 µM in 300 µl (100 transfections)

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rev. 02/25/16

For Research Use Only. Not For Use In Diagnostic Procedures.

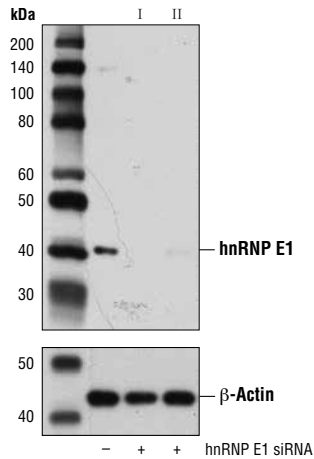
Species Cross-Reactivity: H

Description: SignalSilence® hnRNP E1 siRNA I from Cell Signaling Technology (CST) allows the researcher to specifically inhibit hnRNP E1 expression using RNA interference, a method whereby gene expression can be selectively silenced through the delivery of double stranded RNA molecules into the cell. All SignalSilence® siRNA products from CST are rigorously tested in-house and have been shown to reduce target protein expression by western analysis.

Background: hnRNP E1 is a member of the hnRNP family of proteins that are involved in pre-mRNA processing and mRNA export, localization, stability, and translation (1-6). hnRNP E1 exerts a wide range of biological functions, such as transcriptional activation of mouse MOR gene expression (7), attenuation of alternative splicing of GHR pseudoexon expression (8), stabilization of collagen I and II (9), beta-globin (10), and androgen receptor (11) mRNAs, and regulation of translation of various genes including Dab2, ILEI, and Bag-1 (12,13). hnRNP E1 is ubiquitously expressed. Phosphorylation of hnRNP E1 affects its RNA binding affinity (13,14).

Directions for Use: CST recommends transfection with 100 nM SignalSilence® hnRNP E1 siRNA I 48 to 72 hours prior to cell lysis. For transfection procedure, follow protocol provided by the transfection reagent manufacturer. Please feel free to contact CST with any questions on use.

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.



Western blot analysis of extracts from HeLa cells, transfected with 100 nM SignalSilence® Control siRNA (Unconjugated) #6568 (-), SignalSilence® hnRNP E1 siRNA I (+) or SignalSilence® hnRNP E1 siRNA II #7987 (+), using hnRNP E1 Antibody #8534 (upper) or β-Actin (D6A8) Rabbit mAb #8457 (lower). The hnRNP E1 Antibody confirms silencing of hnRNP E1 expression, while the β-Actin (D6A8) Rabbit mAb is used as a loading control.

Entrez-Gene ID #5093
Swiss-Prot Acc. #Q15365

Storage: hnRNP E1 siRNA I is supplied in RNase-free water. Aliquot and store at -20°C.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

Background References:

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Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.