#6503 Store at -20°C

SignalSilence® hnRNP A0 siRNA I

☑ 10 µM in 300 µl
(100 transfections)

Cell Signaling TECHNOLOGY®

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rev. 02/11/16

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

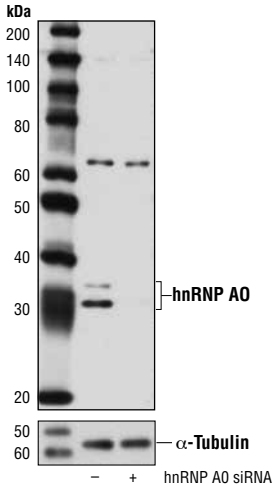
Species Cross-Reactivity: H

Description: SignalSilence® hnRNP A0 siRNA I from Cell Signaling Technology (CST) allows the researcher to specifically inhibit hnRNP A0 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 protein expression by western analysis.

Background: Heterogeneous nuclear ribonucleoprotein A0 (hnRNP A0) is a member of the hnRNP A/B family of related RNA binding proteins that bind pre-mRNA and are involved in the processing, metabolism, and transport of nuclear pre-mRNA transcripts (1). The A/B subfamily of hnRNP includes A1, A2/B1, A3, and A0. hnRNP A0 is phosphorylated at Ser84 by MAPKAPK-2 in response to LPS treatment in mouse macrophage cells, which might play a key role in stimulating translation of the TNF-α message (2)

Directions for Use: CST recommends transfection with 100 nM hnRNP A0 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 (-) or SignalSilence® hnRNP A0 siRNA I (+), using hnRNP A0 (D26A2) Rabbit mAb #5600 (upper) or α-Tubulin (11H10) Rabbit mAb #2125 (lower). The hnRNP A0 (D26A2) Rabbit mAb confirms silencing of hnRNP A0 expression while the α-Tubulin (11H10) Rabbit mAb is used as a loading control.

Entrez-Gene ID #10949
Swiss-Prot Acc. #Q13151

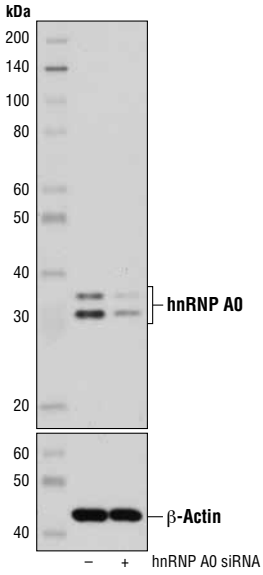
Storage: hnRNP A0 siRNA I is supplied in RNAse-free water. *Aliquot and store at -20°C.*

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

Background References:

(1) Myer, V.E. and Steitz, J.A. (1995) *RNA* 1, 171-82.

(2) Rousseau, S. et al. (2002) *EMBO J* 21, 6505-14.



Western blot analysis of extracts from HeLa cells, transfected with 100 nM SignalSilence® Control siRNA (Unconjugated) #6568 (-) or SignalSilence® hnRNP A0 siRNA I (+), using hnRNP A0 (D8A3) XP® Rabbit mAb #5545 (upper) or α-Tubulin (11H10) Rabbit mAb #2125 (lower). The hnRNP A0 (D8A3) XP® Rabbit mAb confirms silencing of hnRNP A0 expression while the α-Tubulin (11H10) Rabbit mAb is used as a loading control.

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.