Store at -20°C

#9826

SignalSilence® hnRNP LL siRNA II (Mouse Specific)

☑ 10µM in 300 µl
(100 transfections)

Cell Signaling TECHNOLOGY®

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

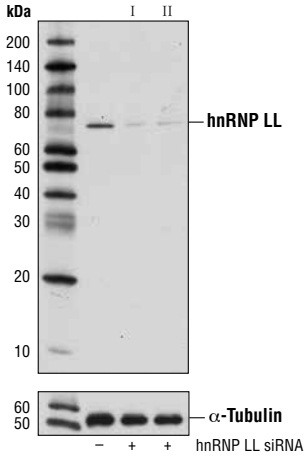
Species Cross-Reactivity: M

Description: SignalSilence® hnRNP LL siRNA II (Mouse Specific) from Cell Signaling Technology (CST) allows the researcher to specifically inhibit hnRNP LL 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: Heterogeneous nuclear ribonucleoprotein L-like (hnRNP LL) is a nuclear RNA-binding protein that shares 69% amino acid homology with hnRNP L, a component of hnRNP complex that regulates mRNA formation, packaging, and processing (1). hnRNP LL is induced in activated T cells and functions as a critical regulator of alternative splicing of CD45, a tyrosine phosphatase crucial for T cell development and activation (2). hnRNP LL also regulates the splicing of CD44 and Stat5a (2). The four isoforms of hnRNP LL are generated by alternative splicing and are widely expressed in human tissues (3).

Directions for Use: CST recommends transfection with 100 nM SignalSilence® hnRNP LL siRNA II (Mouse Specific) 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 C2C12 cells, transfected with 100 nM SignalSilence® Control siRNA (Unconjugated) #6568 (-), SignalSilence® hnRNP LL siRNA I (Mouse Specific) #9825 (+), or SignalSilence® hnRNP LL siRNA II (Mouse Specific) (+), using hnRNP LL Antibody #4783 (upper) or α-Tubulin (11H10) Rabbit mAb #2125 (lower). The hnRNP LL Antibody confirms silencing of hnRNP LL expression, while the α-Tubulin (11H10) Rabbit mAb is used as a loading control.

Entrez-Gene ID #72692
Swiss-Prot Acc. #Q921F4

Storage: hnRNP LL siRNA II (Mouse Specific) 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) Pinol-Roma, S. et al. (1989) *J Cell Biol* 109, 2575-87.

(2) Oberdoerffer, S. et al. (2008) *Science* 321, 686-91.

(3) Shur, I. et al. (2004) *Gene* 334, 113-21.

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.