

#6448 Store at -20°C

SignalSilence® NRBF-2 siRNA I



✓ 10 µM in 300 µl (100 transfections)

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

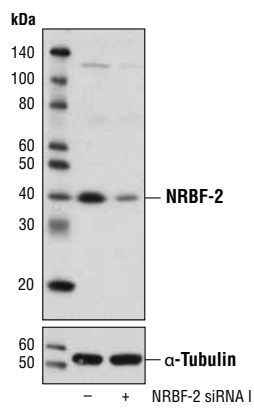
Species Cross-Reactivity: H

Description: SignalSilence® NRBF-2 siRNA I from Cell Signaling Technology (CST) allows the researcher to specifically inhibit NRBF-2 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: Nuclear Receptor Binding Factor-2 (NRBF-2), also referred to as Comodulator of PPAR and RXRα-2 (COPR-2), has been shown to interact with the AF-2 region of several nuclear hormone receptors with varying affinities such as PPARα, RARα, RARγ, and RXRα (1,2). NRBF-2 contains a LLYLL motif, which matches the LXXLL NR box consensus and is required for functional NRBF-2/nuclear receptor complex formation and repression of receptor function. NRBF-2 also contains a unique autonomous activation domain and thus, does not completely abrogate nuclear receptor function, suggesting that NRBF-2 might serve as a molecular rheostat to fine-tune the transcriptional activity of liganded nuclear receptors (1,2).

Directions for Use: CST recommends transfection with 100 nM NRBF-2 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 293 cells, transfected with 100 nM SignalSilence® Control siRNA (Unconjugated) #6568 (-) or SignalSilence® NRBF-2 siRNA I (+), using NRBF-2 Antibody #8066 (upper) or α-Tubulin (11H10) Rabbit mAb #2125 (lower). The NRBF-2 Antibody confirms silencing of NRBF-2 expression, while the α-Tubulin (11H10) Rabbit mAb is used as a loading control.

Entrez-Gene ID #29982
Swiss-Prot Acc. #Q96NP6

Storage: NRBF-2 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) Yasumo, H. et al. (2000) *Biochim Biophys Acta* 1490, 189-97.
(2) Flores, A.M. et al. (2004) *J Invest Dermatol* 123, 1092-101.

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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.