Store at -20°C

#6609

SignalSilence® ABIN-1 siRNA II

☑ 10µM in 300 µl
(100 transfections)

Cell Signaling TECHNOLOGY®

Orders ■ 877-616-CELL (2355)
orders@cellsignal.com
Support ■ 877-678-TECH (8324)
info@cellsignal.com
Web ■ www.cellsignal.com

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

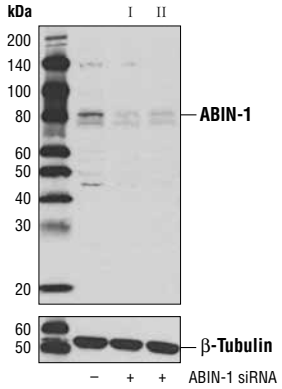
Species Cross-Reactivity: H

Description: SignalSilence® ABIN-1 siRNA II from Cell Signaling Technology (CST) allows the researcher to specifically inhibit ABIN-1 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: The ABIN family (ABIN-1, -2, and -3) is a group of adaptor proteins that associate and cooperate with A20/TNFAIP3 (1), a ubiquitin editing protein that inhibits the key inflammatory transcription factor NF-κB (2-4). Mechanistically, A20 acts by regulating the ubiquitination of the kinase RIP, which leads to inhibition of the IKK complex (5).

Directions for Use: CST recommends transfection with 100 nM ABIN-1 siRNA II 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 OVCAR8 cells, transfected with 100 nM SignalSilence® Control siRNA (Unconjugated) #6568 (-), SignalSilence® ABIN-1 siRNA I #6603 (+) or SignalSilence® ABIN-1 siRNA II (+), using ABIN-1 Antibody #4664 (upper) or β-Tubulin (9F3) Rabbit mAb #2128 (lower). The ABIN-1 Antibody confirms silencing of ABIN-1 expression, while the β-Tubulin (9F3) Rabbit mAb is used as a loading control.

Entrez-Gene ID #10318
Swiss-Prot Acc. #Q15025

Storage: ABIN-1 siRNA II is supplied in RNAse-free water. Aliquot and store at -20ºC.

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

Background References:

(1) Verstrepen, L. et al. (2009) *Biochem Pharmacol* 78, 105-14.

(2) Beyaert, R. et al. (2000) *Biochem Pharmacol* 60, 1143-51.

(3) Lee, E.G. et al. (2000) *Science* 289, 2350-4.

(4) Dixit, V.M. et al. (1990) *J Biol Chem* 265, 2973-8.

(5) Wertz, I.E. et al. (2004) *Nature* 430, 694-9.

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.