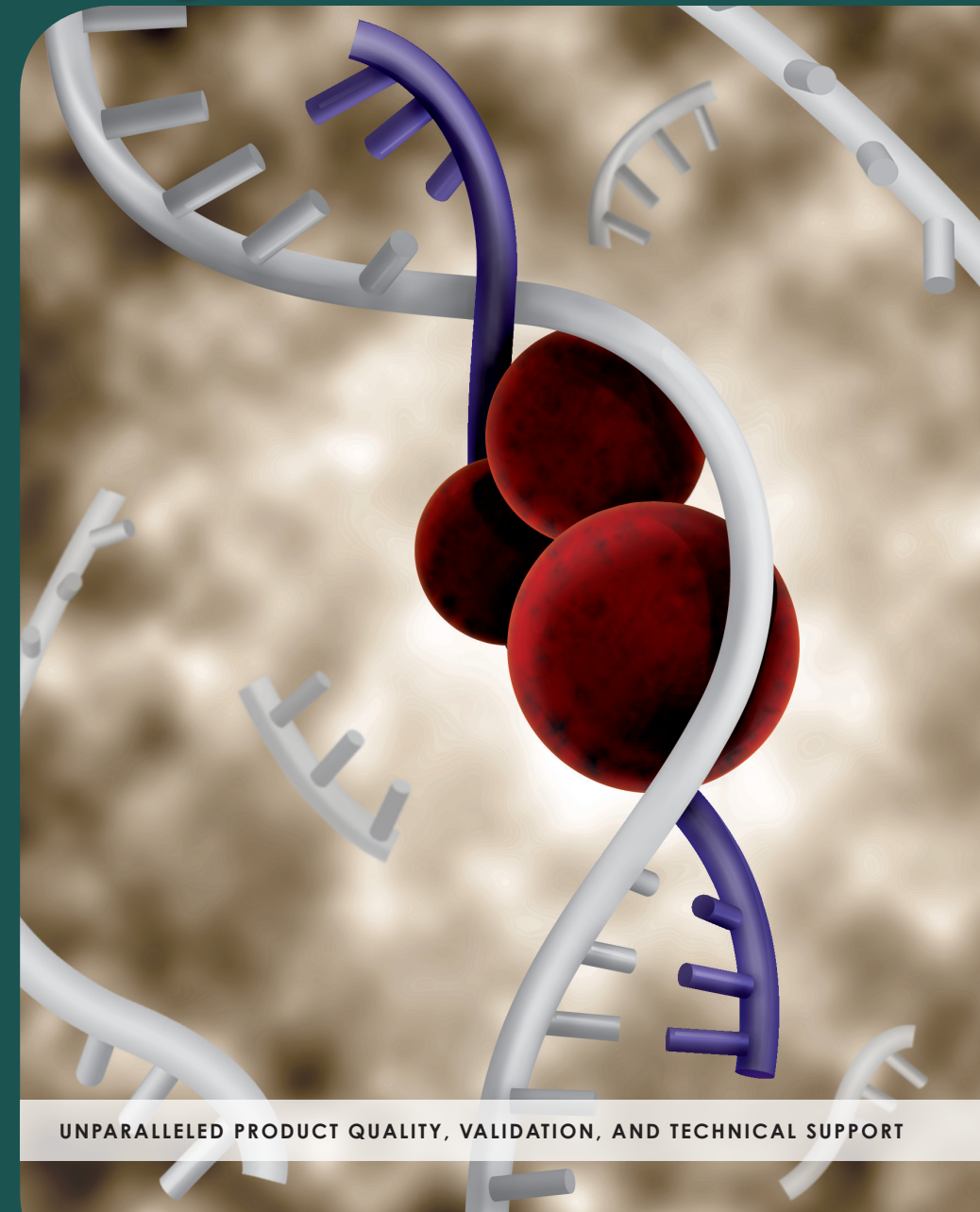


SignalSilence® siRNA



www.cellsignal.com



USA Headquarters

Cell Signaling Technology
Technical Support: (toll-free) 1-877-678-8324
Tel: 978-867-2300 / Fax: 978-867-2400
E-mail: info@cellsignal.com / www.cellsignal.com

International Subsidiaries

Cell Signaling Technology (China) Limited
Technical Support: (toll-free) 4006-473287
Tel: (86) 21-5835-6288 / Fax: (86) 21-5835-6116
E-mail: info@cst-c.com.cn / www.cst-c.com.cn

Cell Signaling Technology Japan, K.K.
Tel: 03 (5652) 0213 / Fax: 03 (3249) 1170
E-mail: info@cstj.co.jp / www.cstj.co.jp

Cell Signaling Technology Europe
Tel: +31 (0)71 568 1060 / Fax: +31 (0)71 568 1065
E-mail: info@cellsignal.eu / www.cellsignal.eu

ANTIBODIES AND RELATED REAGENTS
FOR SIGNAL TRANSDUCTION RESEARCH

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UNPARALLELED PRODUCT QUALITY, VALIDATION, AND TECHNICAL SUPPORT

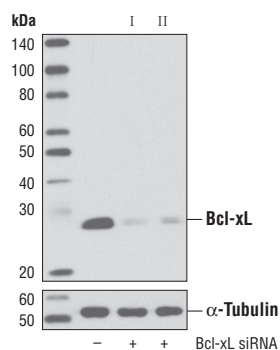
Introduction

SignalSilence® siRNA duplexes from Cell Signaling Technology (CST) allow the researcher to specifically inhibit protein expression. These products utilize RNA interference, a method in which gene expression can be selectively silenced through the delivery of double stranded RNA molecules into the cell. Often two equally potent siRNAs are available for each target (siRNA I and II). A fluorescein-labeled non-targeted siRNA control allows the user to monitor transfection efficiency, and an unconjugated control siRNA can be used to control for specificity.

- **siRNA duplexes are designed, produced, and purified in-house** – siRNA products are held to the same stringent quality control standards as CST™ antibody products.
- **siRNA duplexes offered are used in-house for antibody validation** – effective knockdown is assessed by CST scientists at the protein level.
- **Technical support is provided by the same scientists who produce and validate the products** – you have access to our knowledgeable technical support scientists to discuss transfection methods or any other questions.

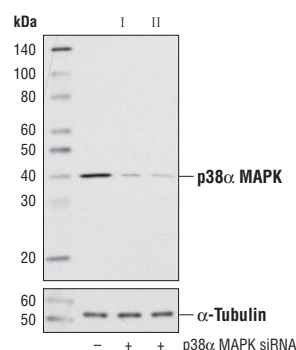
Companion Products

- SignalSilence® Control siRNA (Fluorescein Conjugate) #6201
- SignalSilence® Control siRNA (Unconjugated) #6568



SignalSilence® Bcl-xL siRNA

Western blot analysis of extracts from HeLa cells, transfected with 100 nM SignalSilence® Control siRNA (Unconjugated) #6568 (-), SignalSilence® Bcl-xL siRNA I #6362 (+) or SignalSilence® Bcl-xL siRNA II #6363 (+), using Bcl-xL (54H6) Rabbit mAb #2764 (upper) or α -Tubulin (11H10) Rabbit mAb #2125 (lower). The Bcl-xL (54H6) Rabbit mAb confirms silencing of Bcl-xL expression, while the α -Tubulin (11H10) Rabbit mAb is used as a loading control.



SignalSilence® p38 α MAPK siRNA

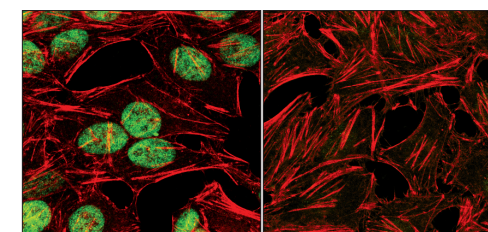
Western blot analysis of extracts from 293 cells, transfected with 100 nM SignalSilence® Control siRNA (Unconjugated) #6568 (-), SignalSilence® p38 α MAPK siRNA I #6269 (+) or SignalSilence® p38 α MAPK siRNA II #6277 (+), using p38 α MAPK Antibody #9218 (upper) or α -Tubulin (11H10) Rabbit mAb #2125 (lower). The p38 α MAPK Antibody confirms silencing of p38 α MAPK expression, while the α -Tubulin (11H10) Rabbit mAb is used as a loading control.

< siRNA works to silence expression of target genes through association with the RNA-induced silencing complex (RISC). This complex minimally consists of the proteins Dicer, transactivating response RNA binding protein (TRBP) and Argonaute 2 (Ago2). Dicer is a RNase III enzyme that functions in processing siRNA from dsRNA precursors and binds TRBP, a protein that binds siRNA and delivers it to the RISC. Ago2, which also binds Dicer, is the catalytic component of the complex that cleaves mRNA to prevent translation.

SignalSilence® siRNA Offering

Target	I	II
ABIN-1	#6603	#6609
Akt	#6211	#6510
Akt2	#6396	–
AMPK α 2	#6620	#6630
Atg4B	#6336	–
Atg4C	#6325	–
Atg5	#6345	–
Atg7	#6604	–
Atg14	#6286	#6287
ATM	#6328	#6329
ATR	#6288	–
Axl	#6263	#6264
β -Arrestin 1	#6218	–
Bad	#6471	#6512
Bax	#6321	#6514
Beclin-1	#6222	#6246
Bcl-2	#6441	#6516
Bcl-xL	#6362	#6363
Bim	#6461	#6518
Caspase-3	#6466	#6520
Caspase-10	#6357	–
β -Catenin	#6225	#6238
γ -Catenin	#6226	#6239
CDK5	#6216	#6217
Chk1	#6241	#6522
Cofilin	#6267	#6268
CREB	#6588	#6590
CTCF	#6265	–
Dicer	#6576	#6585
EGFR	#6480	#6482
eIF4E	#6311	#6554
FoxO1	#6242	#6256
FoxO3a	#6302	#6303
FZD6	#6596	#6597
GSK-3 α	#6312	#6524
GSK-3 α/β	#6301	–
HER2/ErbB2	#6282	#6283
HSP27	#6356	#6526
IGF-1 Receptor	#6610	–
ILK1	#6202	#6528
IkB α	#6327	–
IRAK1	#6253	#6228
IRF-3	#6274	–
Jak2	#6235	–
c-Jun	#6203	#6204
JNK1	#6232	#6233
KEAP1	#5285	#5289
LC3A	#6214	#6215
LC3B	#6212	#6213
MARK2	#6266	–
Mcl-1	#6315	–
MEK1	#6426	#6530
MEK2	#6431	#6532

Target	I	II
Merlin	#6316	#6338
Met	#6618	#6622
MKK3	#6294	#6295
MTAP	#6284	#6285
mTOR	#6381	#6556
c-Myc	#6341	#6552
NDRG1	#6245	#6257
NF- κ B	#6261	#6534
p16 INK4A	#6598	–
p21 Waf1/Cip1	#6456	#6558
p38 MAPK	#6564	#6243
p38 α MAPK	#6269	#6277
p38 β MAPK	#6278	#6279
p38 δ MAPK	#6600	#6601
p42 MAPK (Erk2)	#6540	#6578
p44 MAPK (Erk1)	#6436	–
p44/42 MAPK (Erk1/2)	#6560	–
p53	#6231	#6562
p70/85	#6566	#6572
PAK1	#6361	#6536
PARP	#6304	#6305
PKA C- α	#6406	#6574
PLC γ 1	#6293	#6254
PTEN	#6251	#6538
Rb	#6451	#6542
RKIP	#6296	#6297
RXR α	#6348	–
SAPK/JNK	#6232	#6233
Stat1	#6331	#6544
Stat3	#6580	#6582
Stat5	#6275	#6298
Survivin	#6351	#6546
TrkA	#6613	–
TTK	#6367	#6368
Tuberin/TSC2	#6476	#6548
XIAP	#6446	#6550
YB1	#6206	#6207



SignalSilence® c-Myc siRNA

Confocal immunofluorescent analysis of HeLa cells, transfected with SignalSilence® Control siRNA (Unconjugated) #6568 (left) or transfected with SignalSilence® c-Myc siRNA I #6341 (right), using c-Myc (D84C12) XP™ Rabbit mAb #5605 (green). Actin filaments were labeled with DY-554 phalloidin (red).

For the most up-to-date product listing please visit our website.