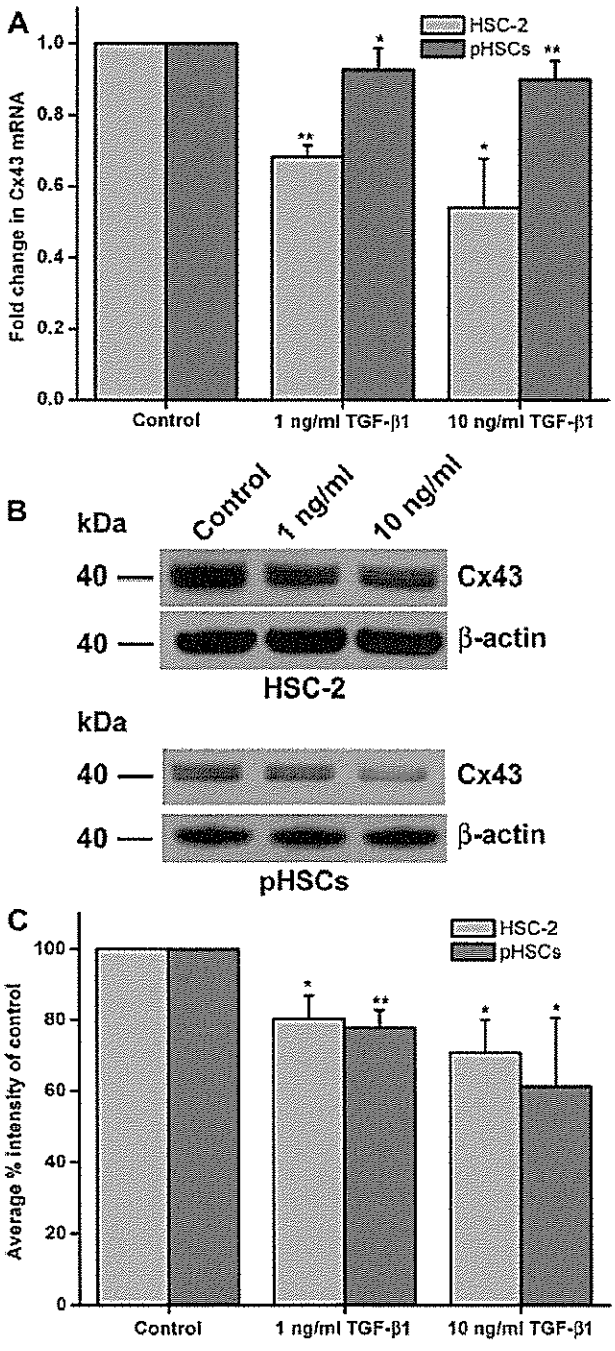

A
HSC-2
pHSCs
Fold change in Cx43 mRNA
1.0
0.8
0.6
0.4
0.2
0.0
Control
1 ng/ml TGF-β1
10 ng/ml TGF-β1
B
kDa
Control
1 ng/ml
10 ng/ml
40
Cx43
β-actin
HSC-2
pHSCs
C
Average % intensity of control
100
80
60
40
20
0

FIGURE 1

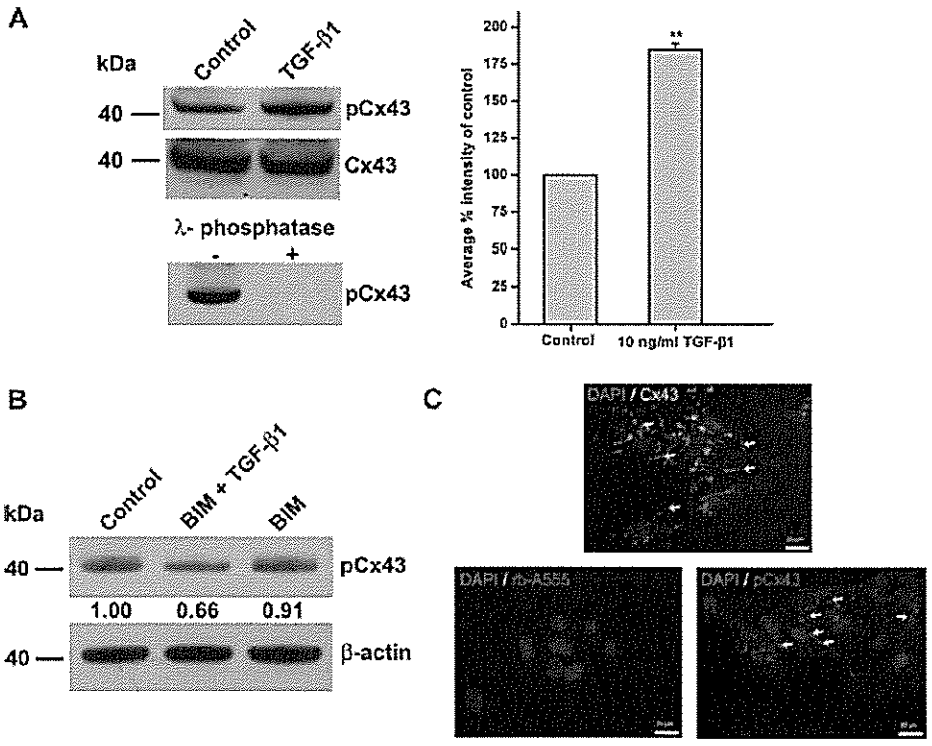

A
kDa
Control
TGF-β1
40
pCx43
40
Cx43
λ- phosphatase
-
+
pCx43
Average % intensity of control
200
175
150
125
100
75
50
25
0
**
Control
10 ng/ml TGF-β1
B
kDa
Control
BIM + TGF-β1
BIM
40
pCx43
1.00
0.66
0.91
40
β-actin
C
DAPI / Cx43
DAPI / rb-A555
DAPI / pCx43

FIGURE 2

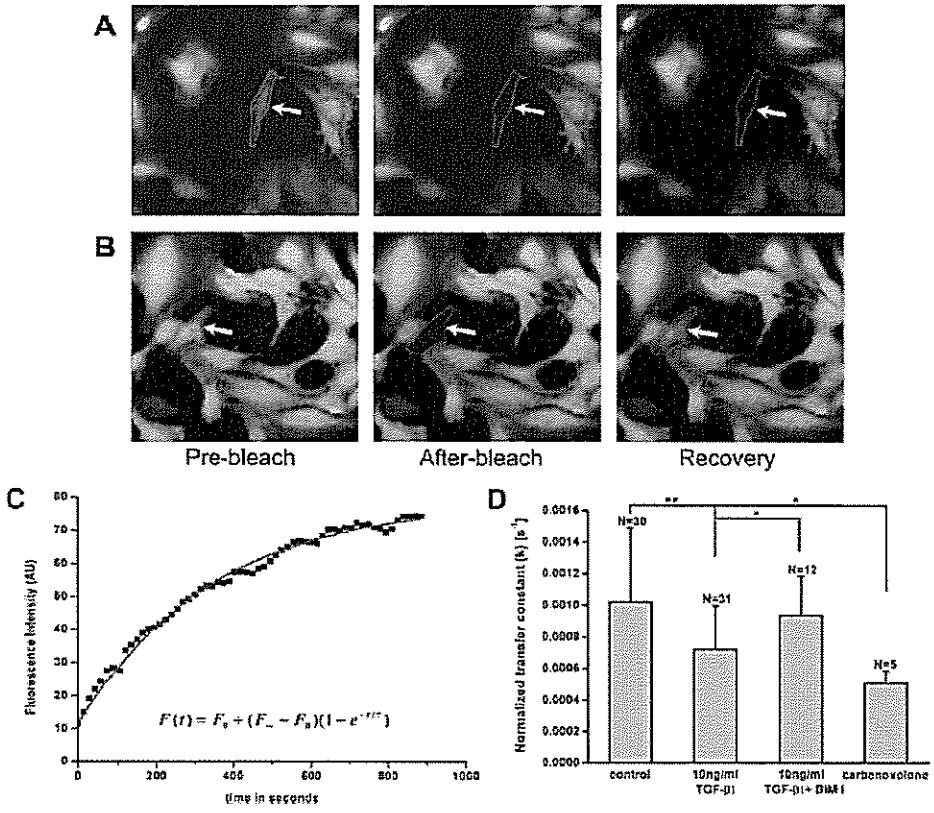

A
B
Pre-bleach
After-bleach
Recovery
C
Fluorescence Intensity (AU)
time in seconds
$F(t) = F_0 + (F_\infty - F_0)(1 - e^{-kt})$
D
Normalized transfer constant (k) [s^{-1}]
N=30
N=31
N=12
N=5
control
10ng/ml TGF-β1
10ng/ml TGF-β1+ DIMI
carbenoxolone

FIGURE 3

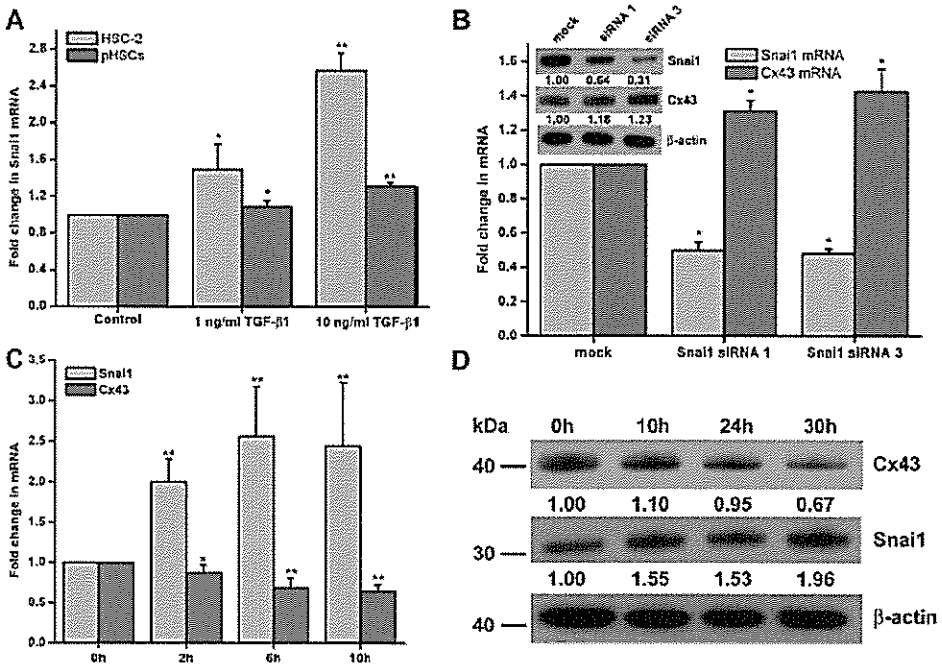

A
HSC-2
pHSCs
Fold change in Snai1 mRNA
Control
1 ng/ml TGF-β1
10 ng/ml TGF-β1
B
mock
siRNA 1
siRNA 3
Snai1
Cx43
β-actin
1.00 0.64 0.31
1.00 1.18 1.23
Snai1 mRNA
Cx43 mRNA
Fold change in mRNA
mock
Snai1 siRNA 1
Snai1 siRNA 3
C
Snai1
Cx43
Fold change in mRNA
0h
2h
6h
10h
D
kDa
0h
10h
24h
30h
40
Cx43
1.00 1.10 0.95 0.67
30
Snai1
1.00 1.55 1.53 1.96
40
β-actin

FIGURE 4

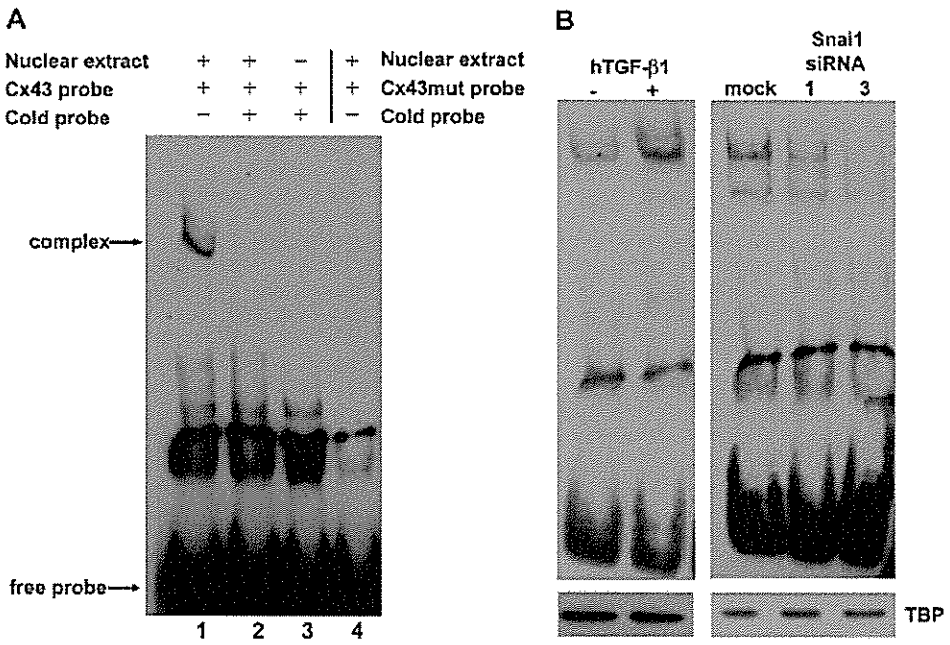

A
Nuclear extract + + − + Nuclear extract
Cx43 probe + + + + Cx43mut probe
Cold probe − + + − Cold probe
complex
free probe
1 2 3 4
B
hTGF-β1
- +
Snai1 siRNA
mock 1 3
TBP

FIGURE 5

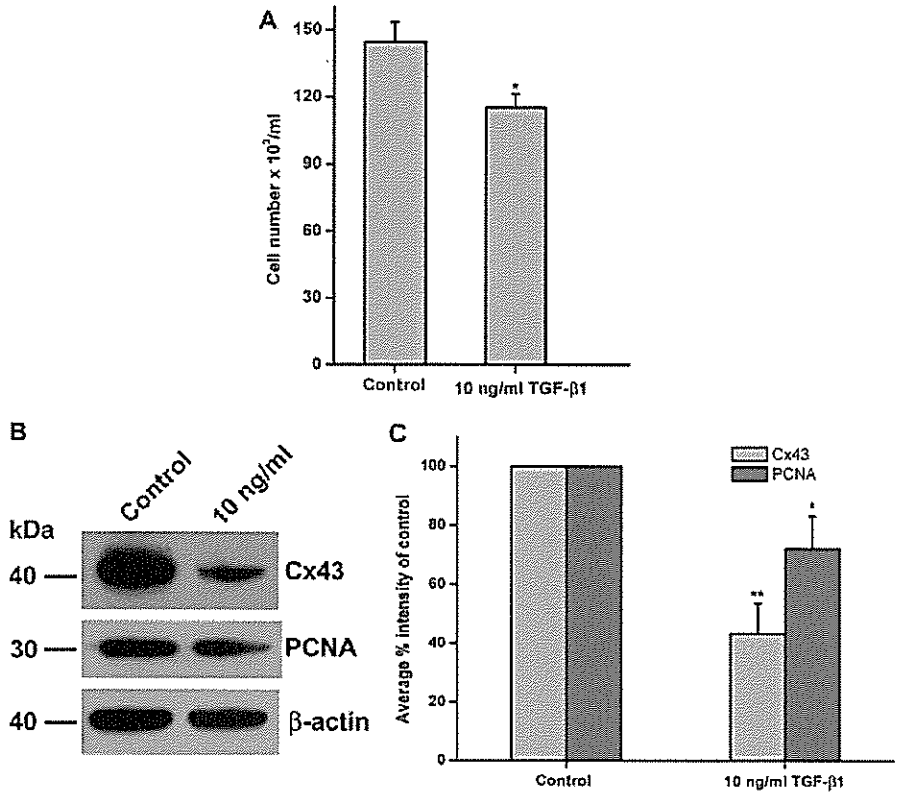

A
Cell number x 10³/ml
150
120
90
60
30
0
Control
10 ng/ml TGF-β1
B
Control
10 ng/ml
kDa
40
Cx43
30
PCNA
40
β-actin
C
Cx43
PCNA
Average % intensity of control
100
80
60
40
20
0
Control
10 ng/ml TGF-β1

FIGURE 6

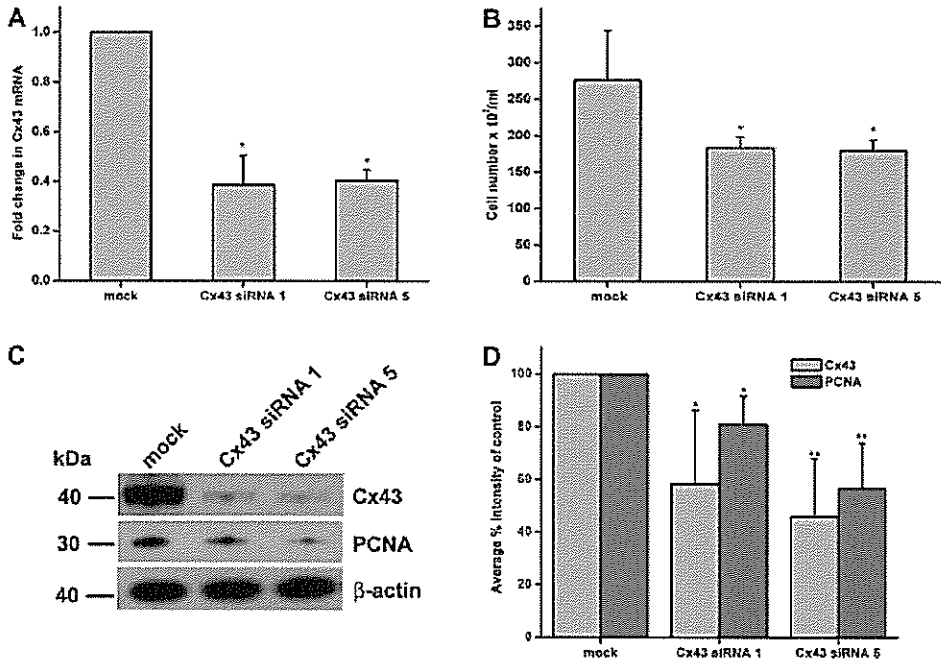

A
Fold change in Cx43 mRNA
1.0
0.8
0.6
0.4
0.2
0.0
mock
Cx43 siRNA 1
Cx43 siRNA 5
B
Cell number x 10⁵/ml
350
300
250
200
150
100
50
0
mock
Cx43 siRNA 1
Cx43 siRNA 5
C
kDa
mock
Cx43 siRNA 1
Cx43 siRNA 5
40
Cx43
30
PCNA
40
β-actin
D
Average % intensity of control
100
80
60
40
20
0
Cx43
PCNA
mock
Cx43 siRNA 1
Cx43 siRNA 5

FIGURE 7

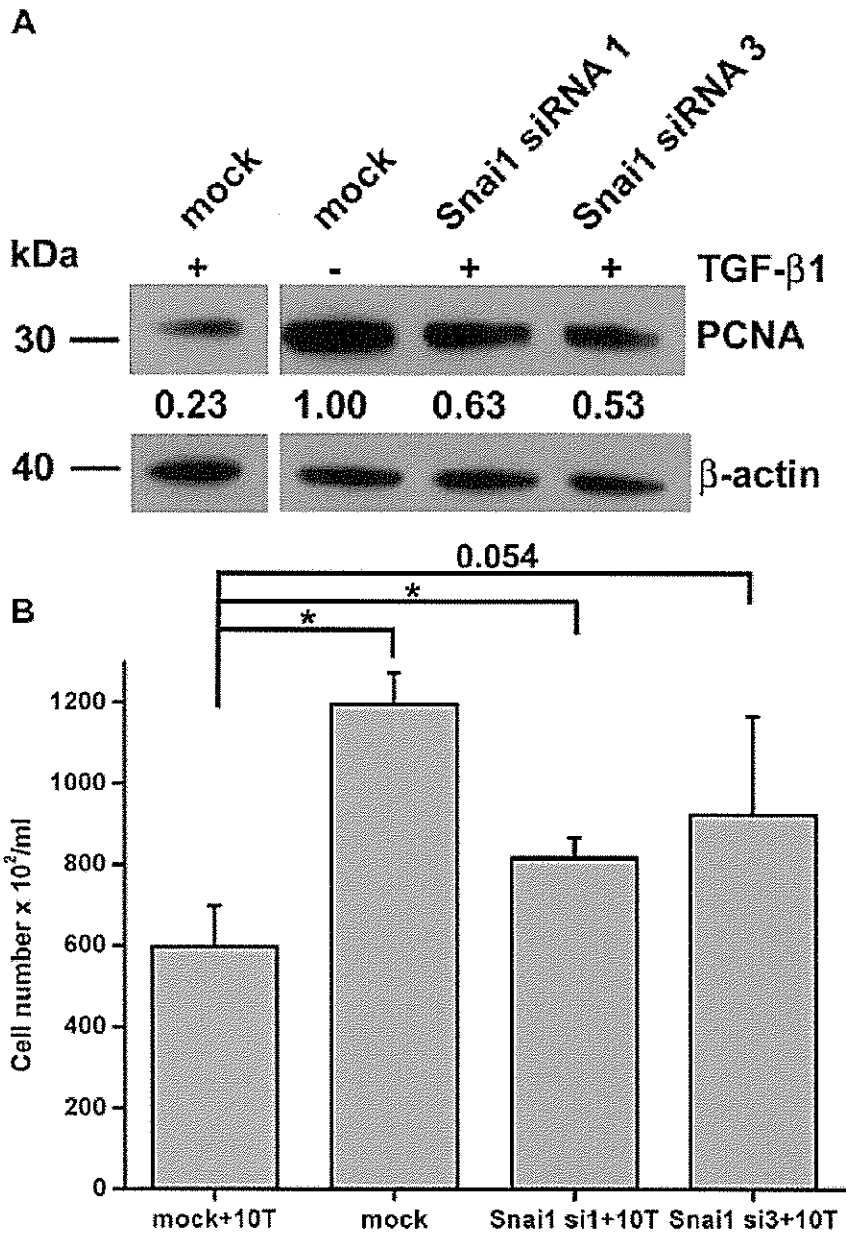

A
mock
mock
Snai1 siRNA 1
Snai1 siRNA 3
kDa
+
-
+
+
TGF-β1
30
PCNA
0.23
1.00
0.63
0.53
40
β-actin
B
0.054
*
*
Cell number x 10³/ml
1200
1000
800
600
400
200
0
mock+10T
mock
Snai1 si1+10T
Snai1 si3+10T

FIGURE 8