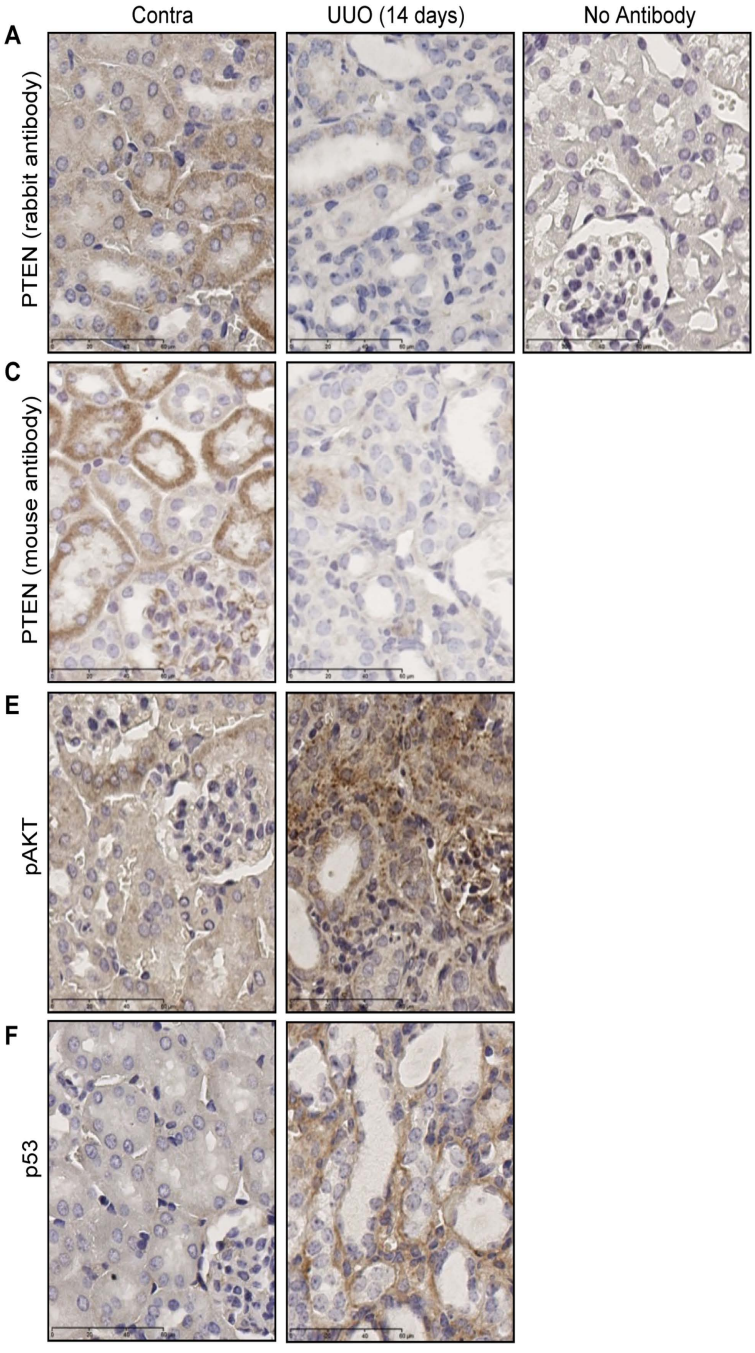
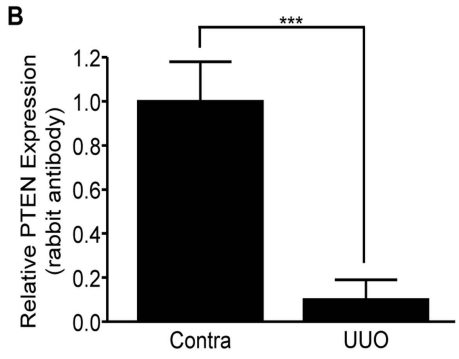
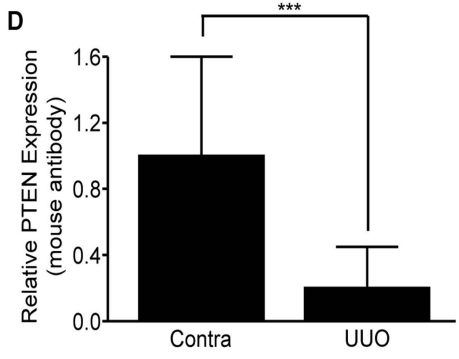
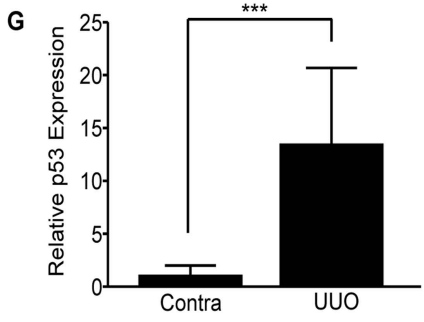
Figure S1


Contra
UUO (14 days)
No Antibody
A
PTEN (rabbit antibody)
C
PTEN (mouse antibody)
E
pAKT
F
p53


B
***
Relative PTEN Expression (rabbit antibody)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Contra
UUO


D
***
Relative PTEN Expression (mouse antibody)
1.6
1.2
0.8
0.4
0.0
Contra
UUO


G
***
Relative p53 Expression
25
20
15
10
5
0
Contra
UUO

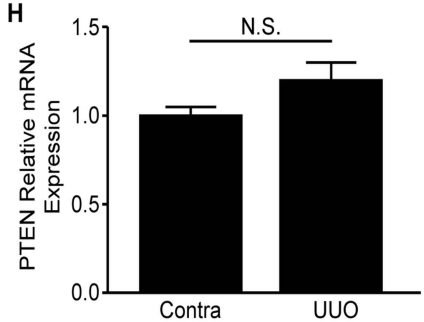

H
N.S.
PTEN Relative mRNA Expression
1.5
1.0
0.5
0.0
Contra
UUO

Figure S2

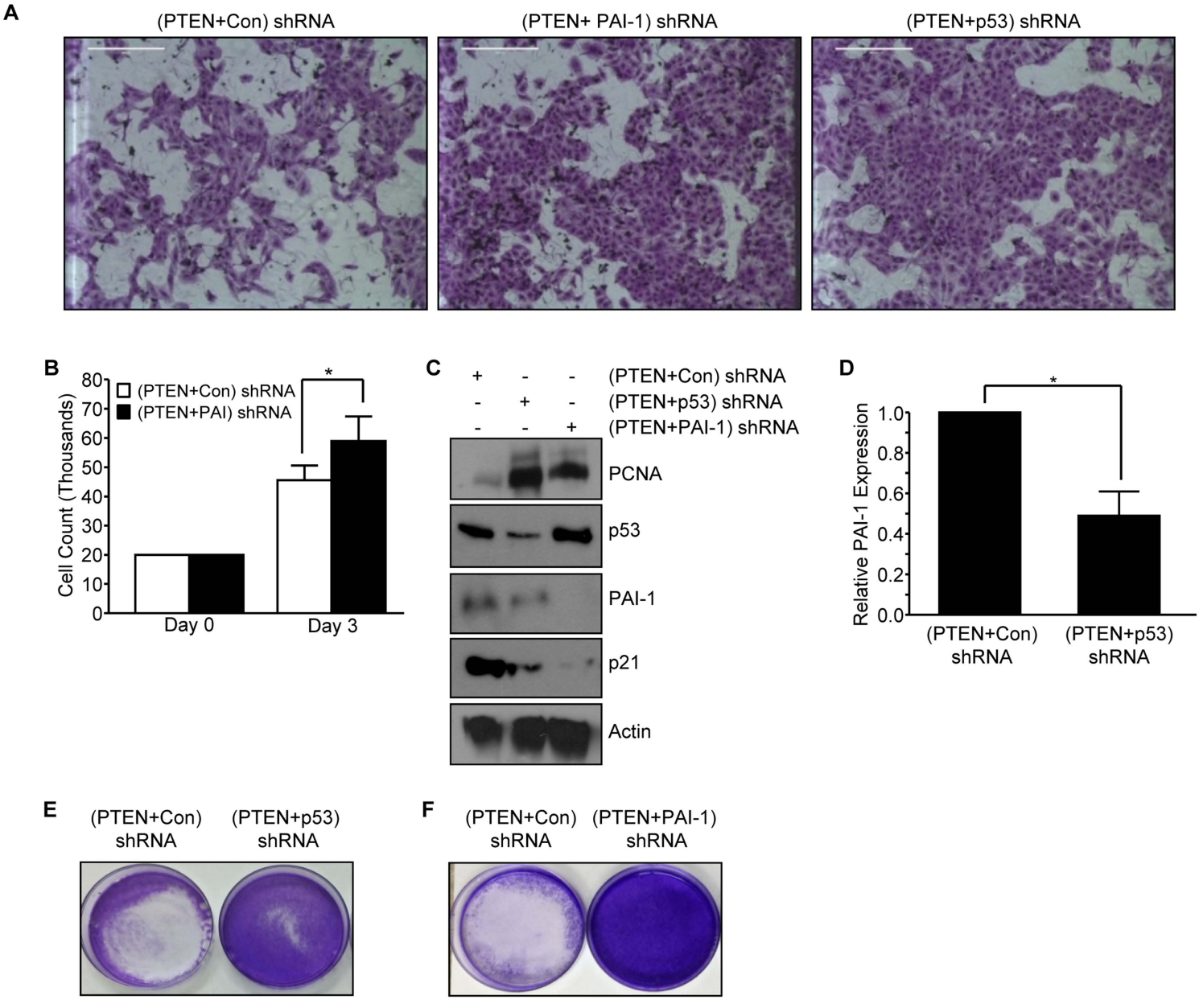

A
(PTEN+Con) shRNA
(PTEN+ PAI-1) shRNA
(PTEN+p53) shRNA
B
(PTEN+Con) shRNA
(PTEN+PAI) shRNA
Cell Count (Thousands)
Day 0
Day 3
*
C
(PTEN+Con) shRNA
(PTEN+p53) shRNA
(PTEN+PAI-1) shRNA
PCNA
p53
PAI-1
p21
Actin
D
Relative PAI-1 Expression
(PTEN+Con) shRNA
(PTEN+p53) shRNA
*
E
(PTEN+Con) shRNA
(PTEN+p53) shRNA
F
(PTEN+Con) shRNA
(PTEN+PAI-1) shRNA

Figure S3

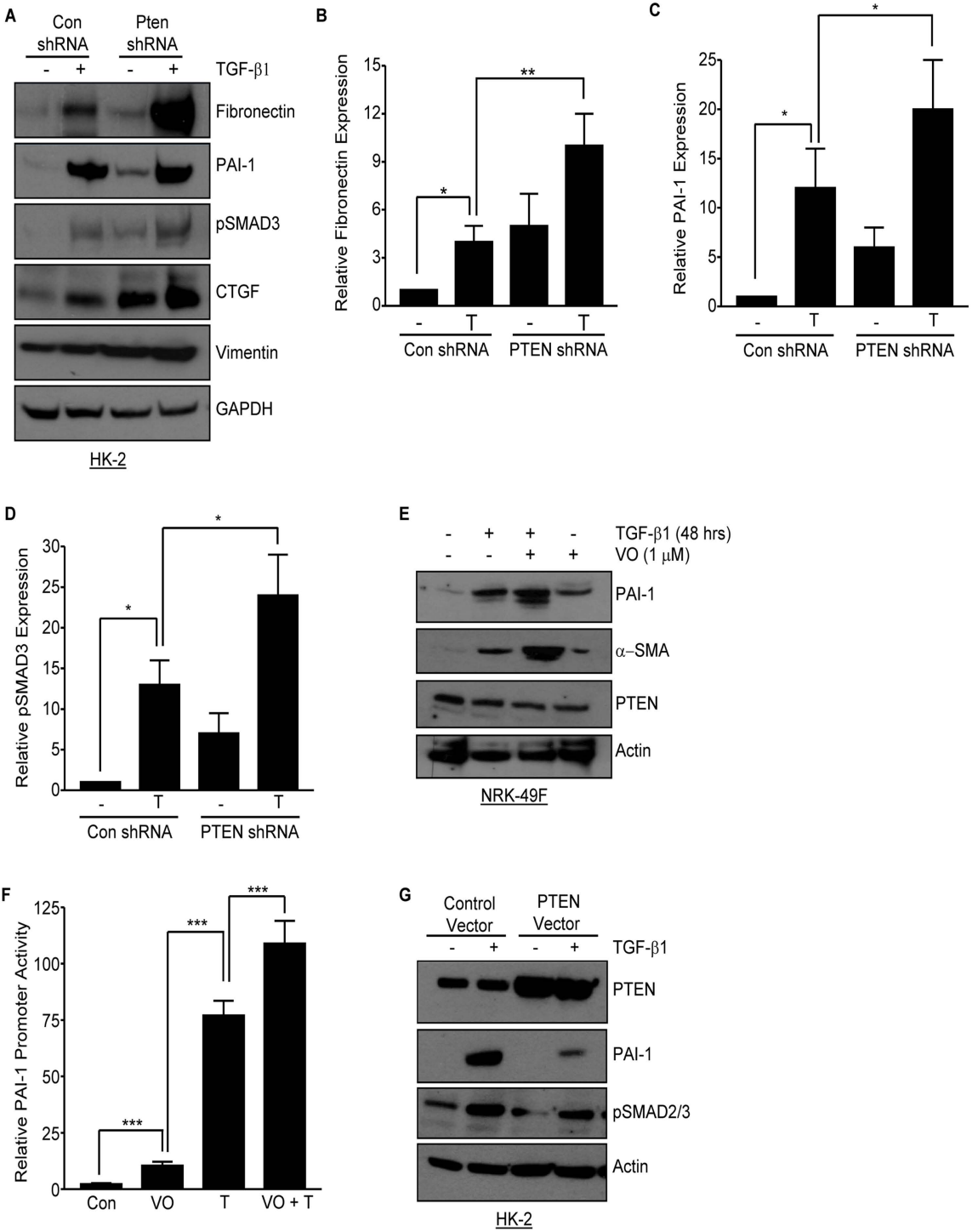
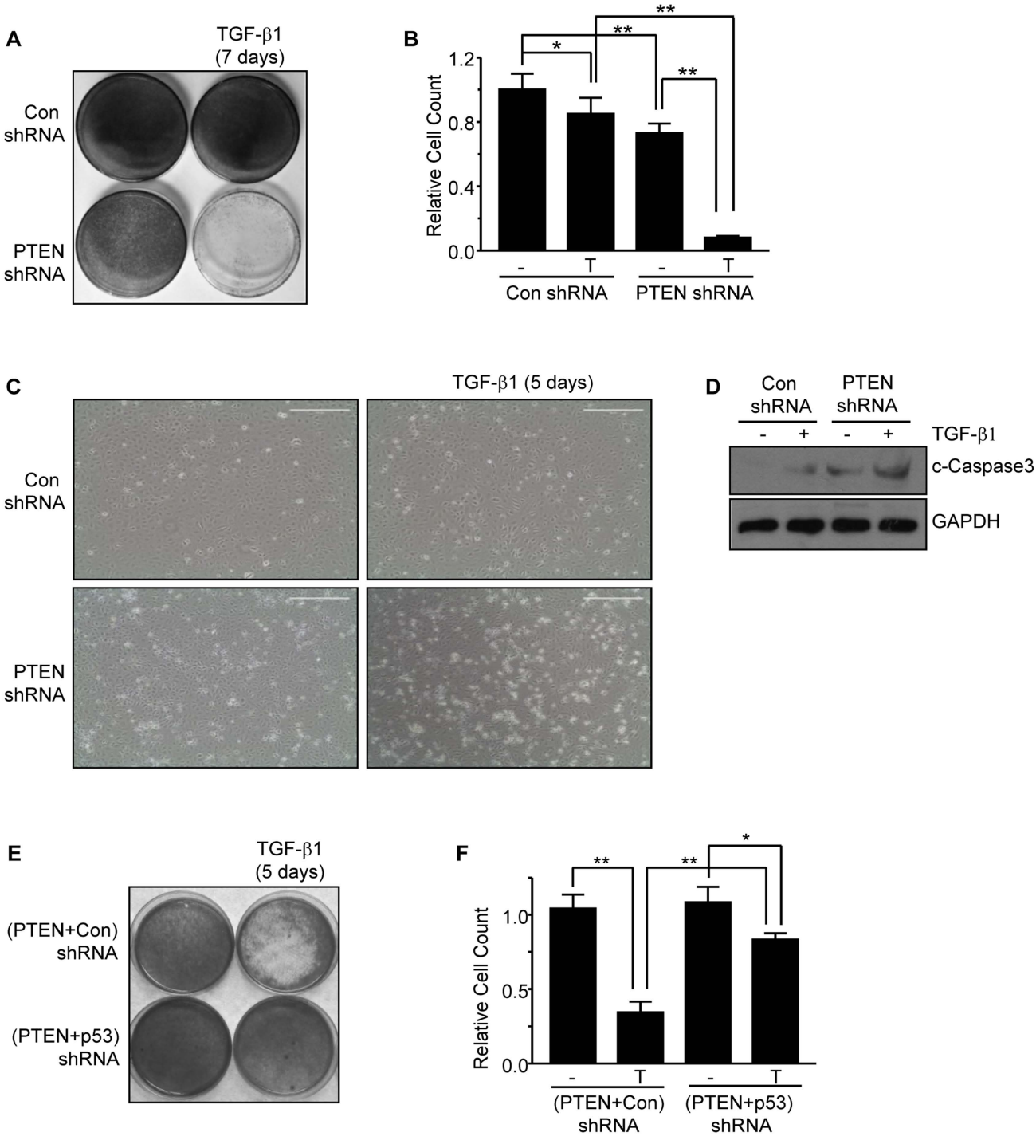

A
Con shRNA
Pten shRNA
- + - +
TGF-β1
Fibronectin
PAI-1
pSMAD3
CTGF
Vimentin
GAPDH
HK-2
B
Relative Fibronectin Expression
15
12
9
6
3
0
*
**
- T - T
Con shRNA
PTEN shRNA
C
Relative PAI-1 Expression
25
20
15
10
5
0
*
*
- T - T
Con shRNA
PTEN shRNA
D
Relative pSMAD3 Expression
30
25
20
15
10
5
0
*
*
- T - T
Con shRNA
PTEN shRNA
E
- + + - TGF-β1 (48 hrs)
- - + + VO (1 μM)
PAI-1
α–SMA
PTEN
Actin
NRK-49F
F
Relative PAI-1 Promoter Activity
125
100
75
50
25
0
***
***
***
Con
VO
T
VO + T
G
Control Vector
PTEN Vector
- + - +
TGF-β1
PTEN
PAI-1
pSMAD2/3
Actin
HK-2

Figure S4


A
TGF-β1
(7 days)
Con
shRNA
PTEN
shRNA
B
Relative Cell Count
1.2
0.8
0.4
0.0
*
**
**
**
-
T
-
T
Con shRNA
PTEN shRNA
C
TGF-β1 (5 days)
Con
shRNA
PTEN
shRNA
D
Con
shRNA
PTEN
shRNA
-
+
-
+
TGF-β1
c-Caspase3
GAPDH
E
TGF-β1
(5 days)
(PTEN+Con)
shRNA
(PTEN+p53)
shRNA
F
Relative Cell Count
1.0
0.5
0.0
**
**
*
-
T
-
T
(PTEN+Con)
shRNA
(PTEN+p53)
shRNA