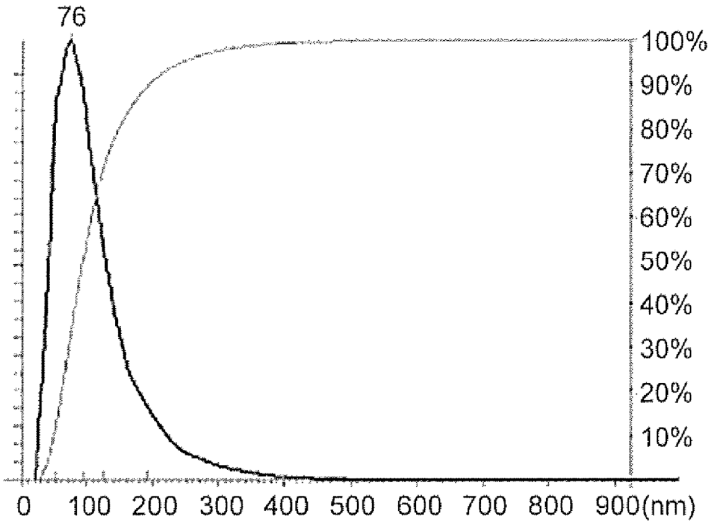
Figure 1

A


76
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0 100 200 300 400 500 600 700 800 900(nm)

B

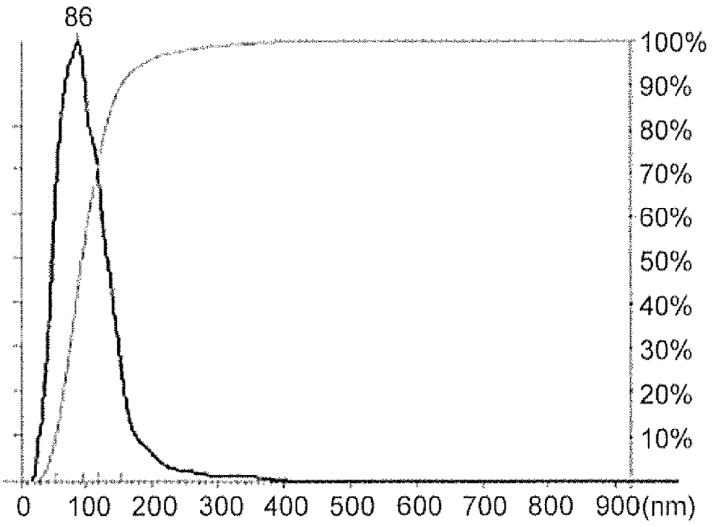

86
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0 100 200 300 400 500 600 700 800 900(nm)

Figure 2

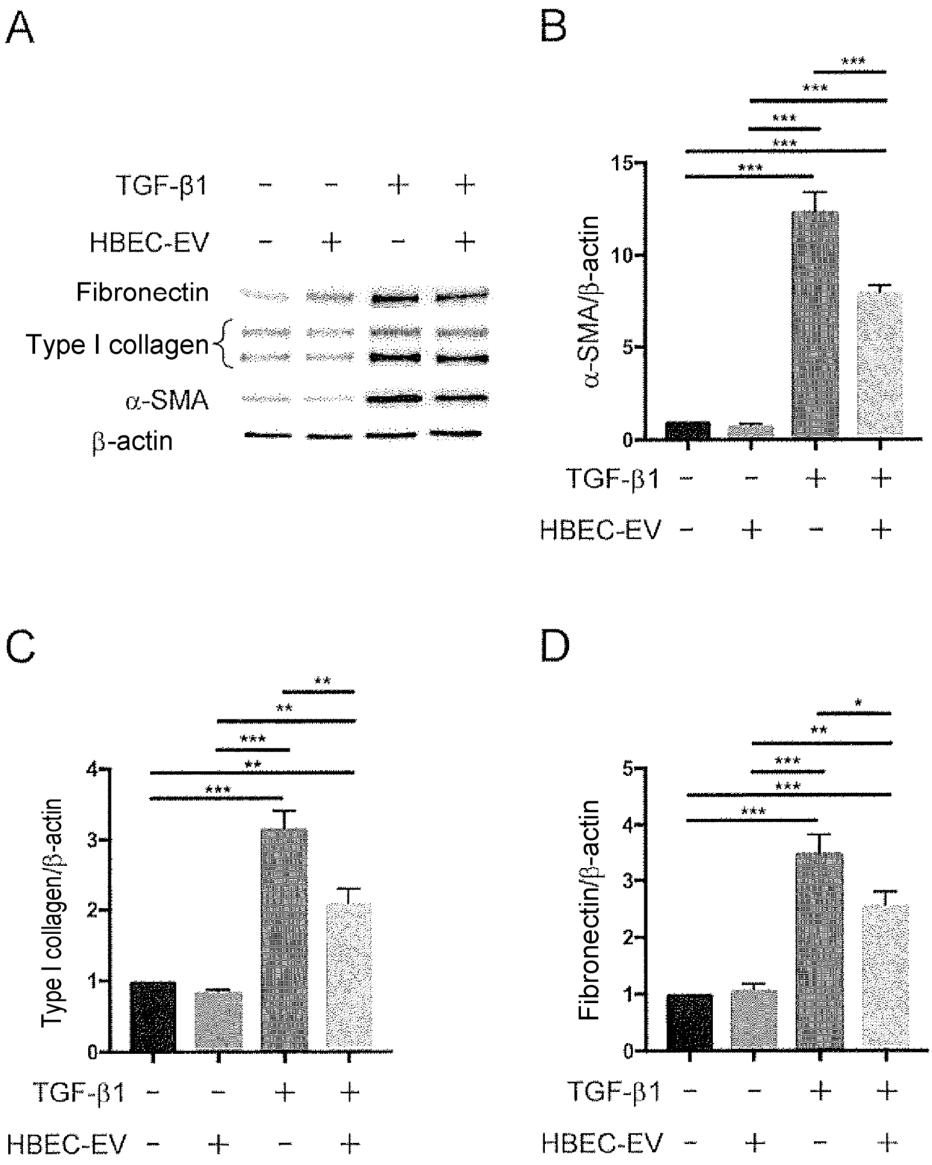

A
TGF-β1 - - + +
HBEC-EV - + - +
Fibronectin
Type I collagen
α-SMA
β-actin
B
α-SMA/β-actin
TGF-β1 - - + +
HBEC-EV - + - +
C
Type I collagen/β-actin
TGF-β1 - - + +
HBEC-EV - + - +
D
Fibronectin/β-actin
TGF-β1 - - + +
HBEC-EV - + - +

Figure 3

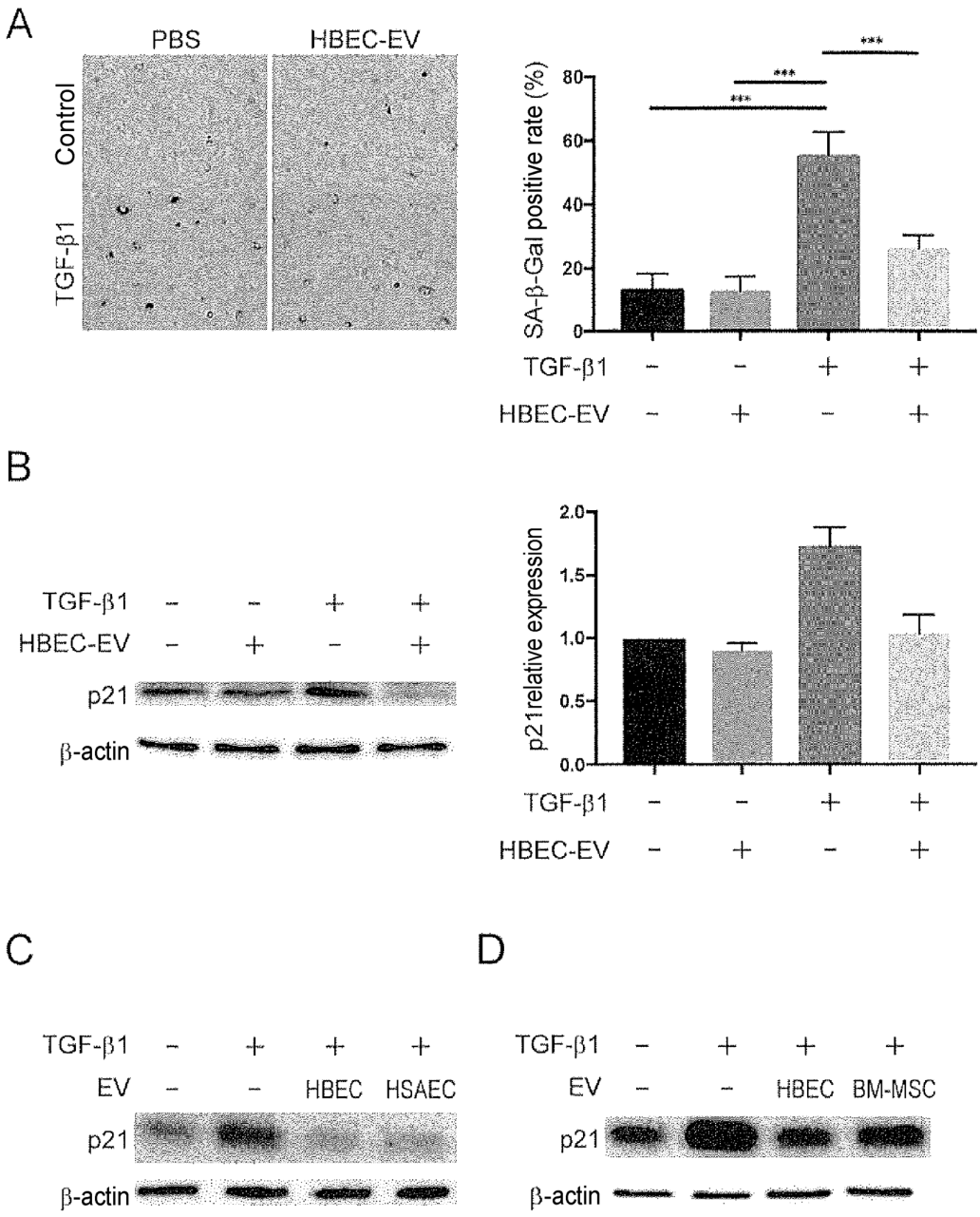

A
PBS
HBEC-EV
Control
TGF-β1
SA-β-Gal positive rate (%)
***
***
***
TGF-β1 - - + +
HBEC-EV - + - +
B
TGF-β1 - - + +
HBEC-EV - + - +
p21
β-actin
p21relative expression
TGF-β1 - - + +
HBEC-EV - + - +
C
TGF-β1 - + + +
EV - - HBEC HSAEC
p21
β-actin
D
TGF-β1 - + + +
EV - - HBEC BM-MSC
p21
β-actin

Figure 4

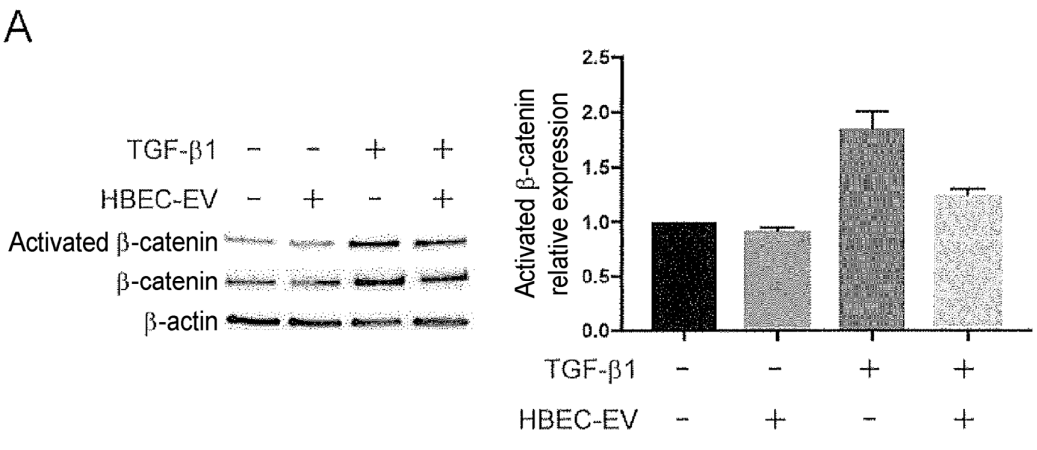


Figure 5

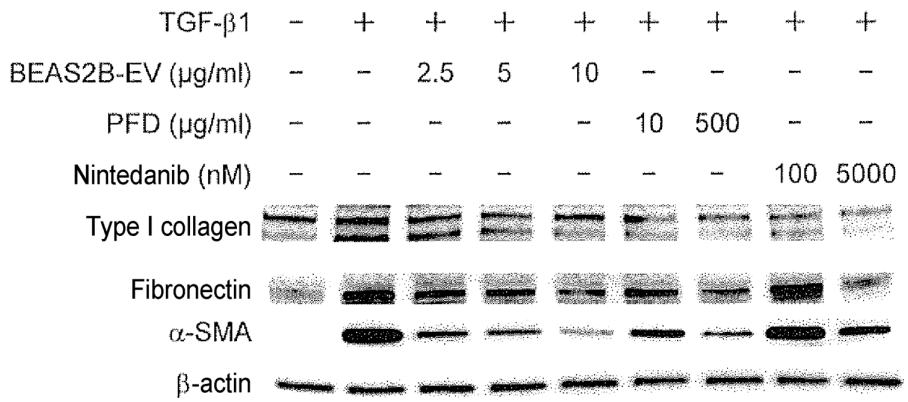


Figure 6

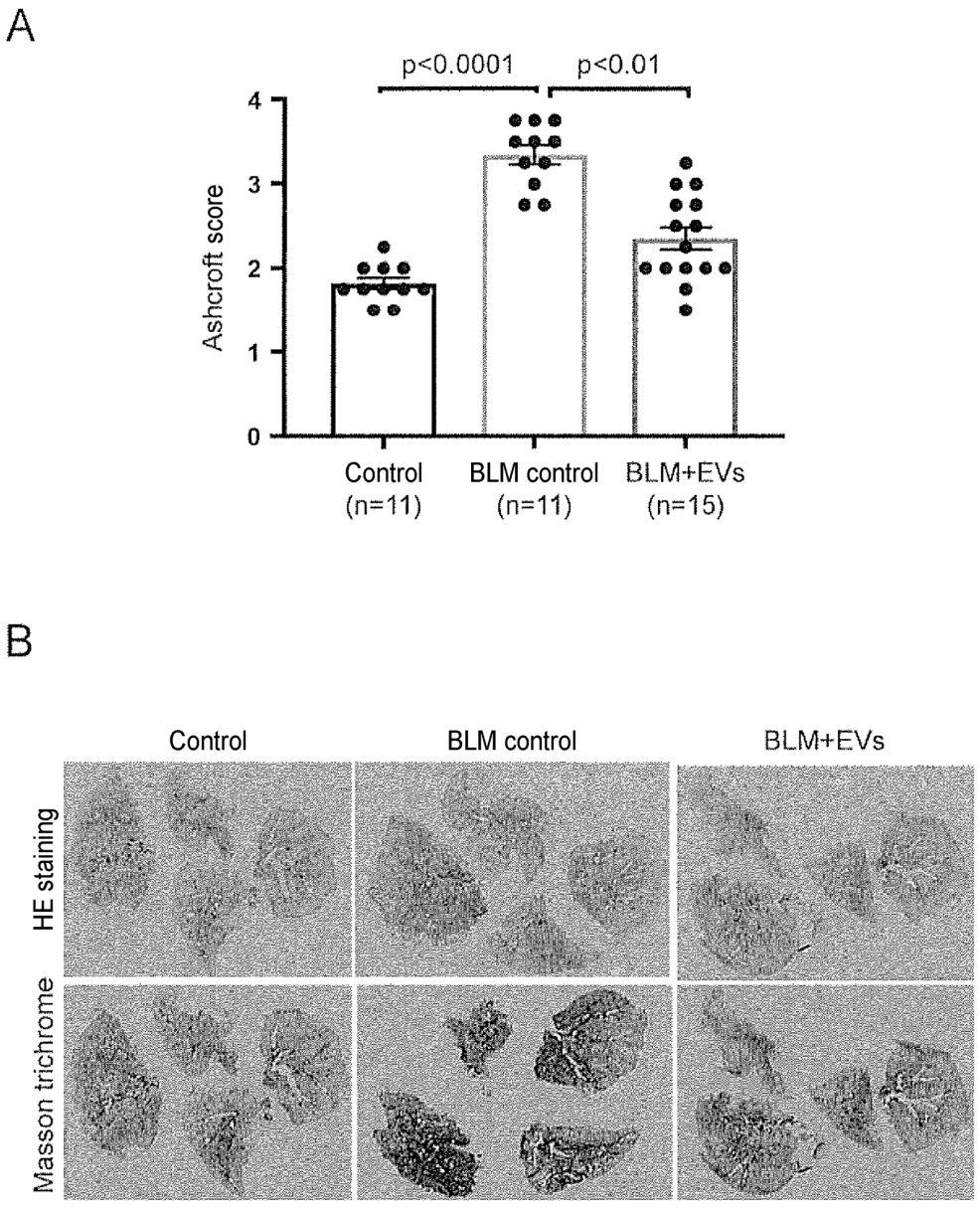
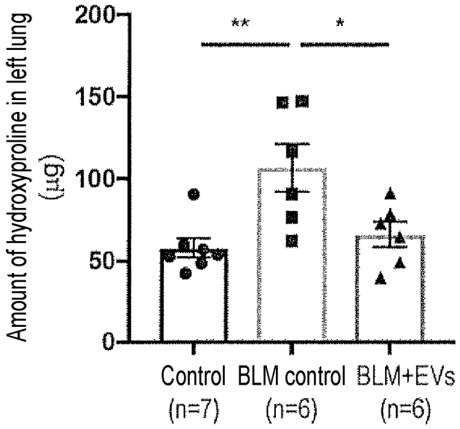
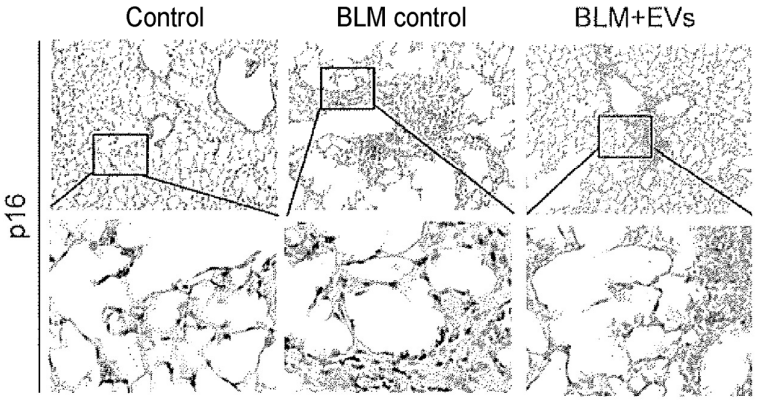

A
p<0.0001
p<0.01
Ashcroft score
0
1
2
3
4
Control
(n=11)
BLM control
(n=11)
BLM+EVs
(n=15)
B
Control
BLM control
BLM+EVs
HE staining
Masson trichrome

Figure 7

A


Amount of hydroxyproline in left lung (μg)
200
150
100
50
0
**
*
Control (n=7)
BLM control (n=6)
BLM+EVs (n=6)

B


Control
BLM control
BLM+EVs
p16

C

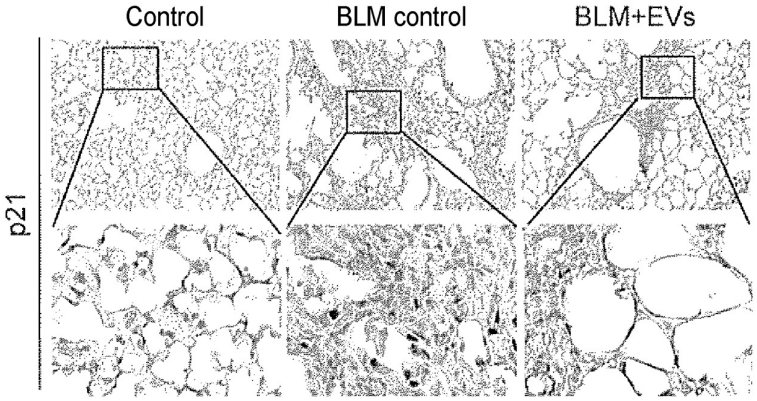

Control
BLM control
BLM+EVs
p21

Figure 8

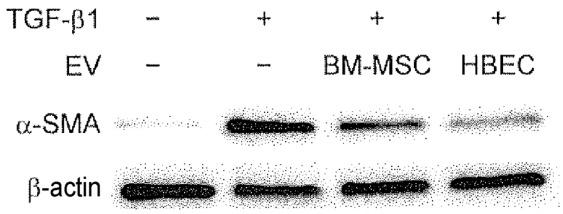
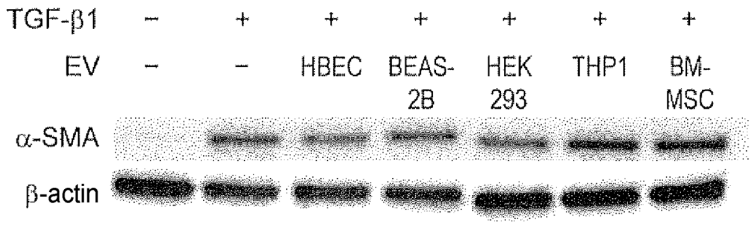


Figure 9

A



B

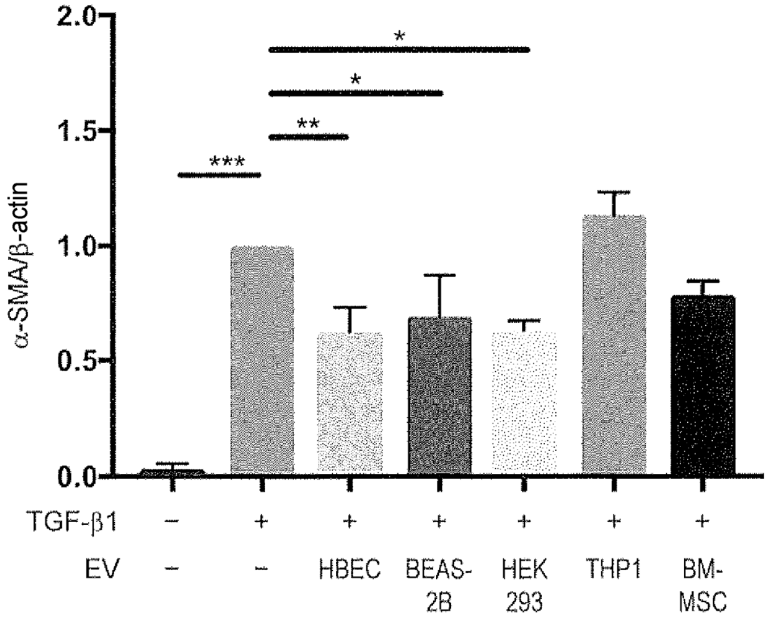


Figure 10

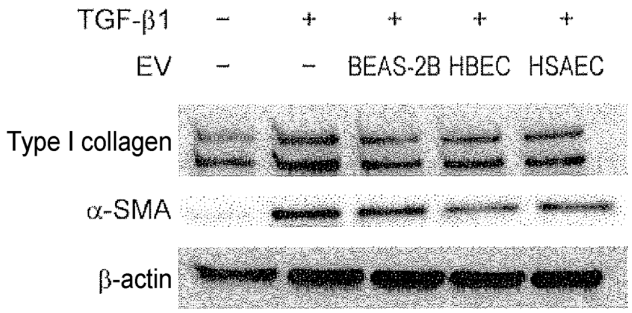


Figure 11

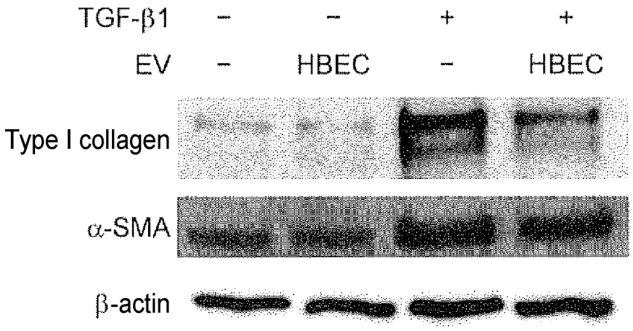
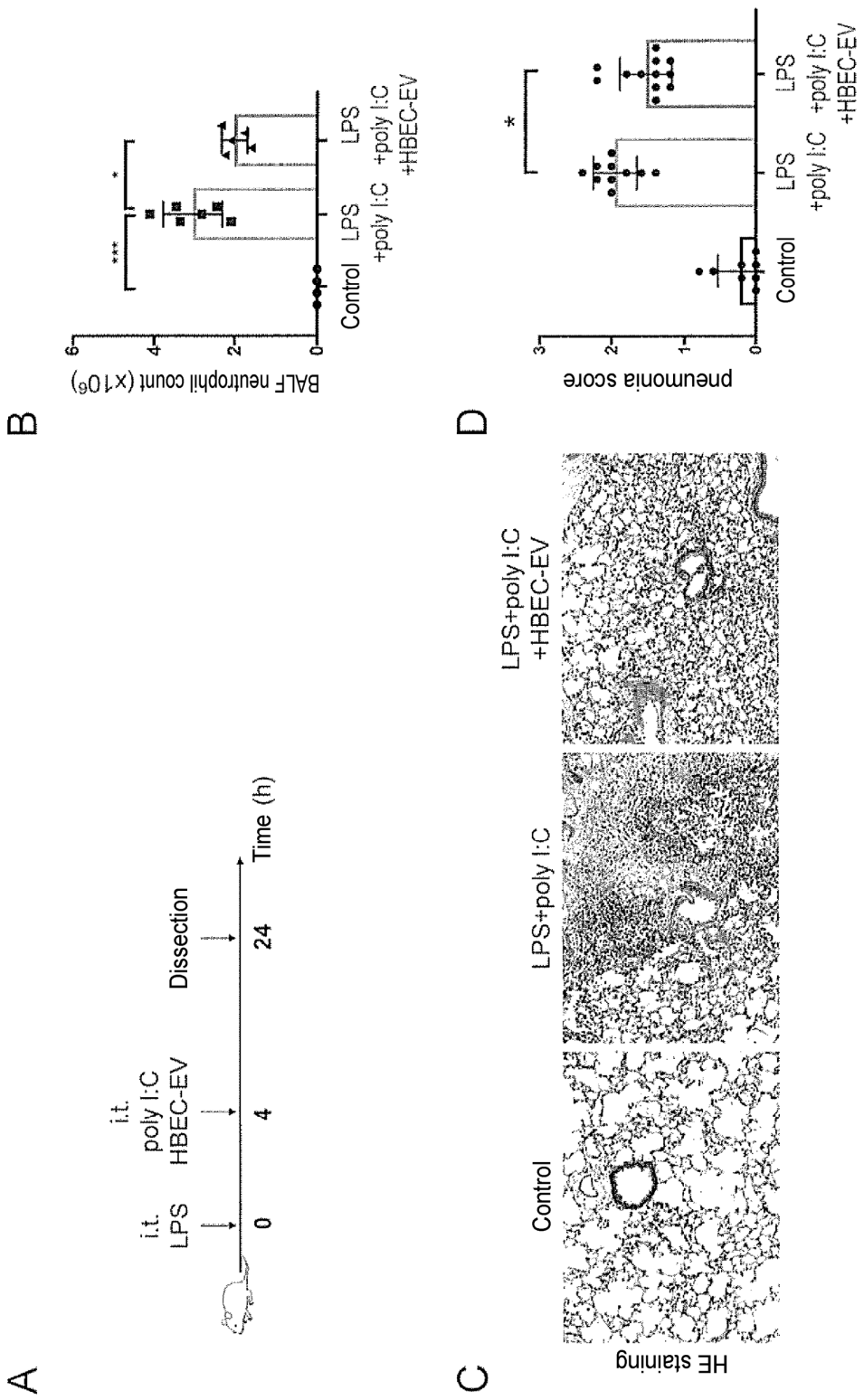


Figure 12


A
i.t.
LPS
i.t.
poly I:C
HBEC-EV
Dissection
0
4
24
Time (h)
B
BALF neutrophil count (x10^6)
***
*
Control
LPS
LPS
+poly I:C
+poly I:C
+HBEC-EV
C
Control
LPS+poly I:C
LPS+poly I:C
+HBEC-EV
HE staining
D
pneumonia score
*
Control
LPS
LPS
+poly I:C
+poly I:C
+HBEC-EV