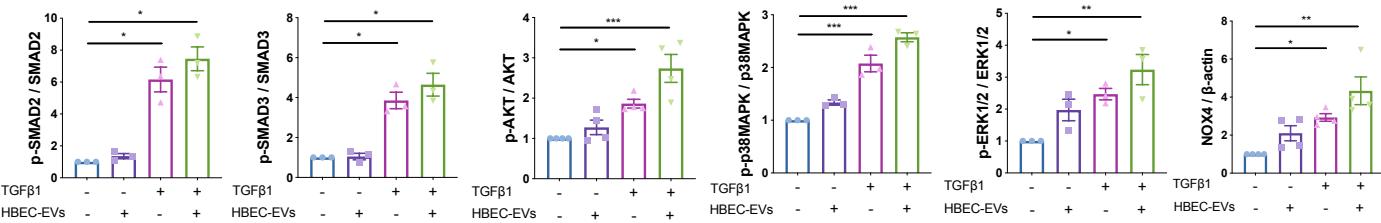
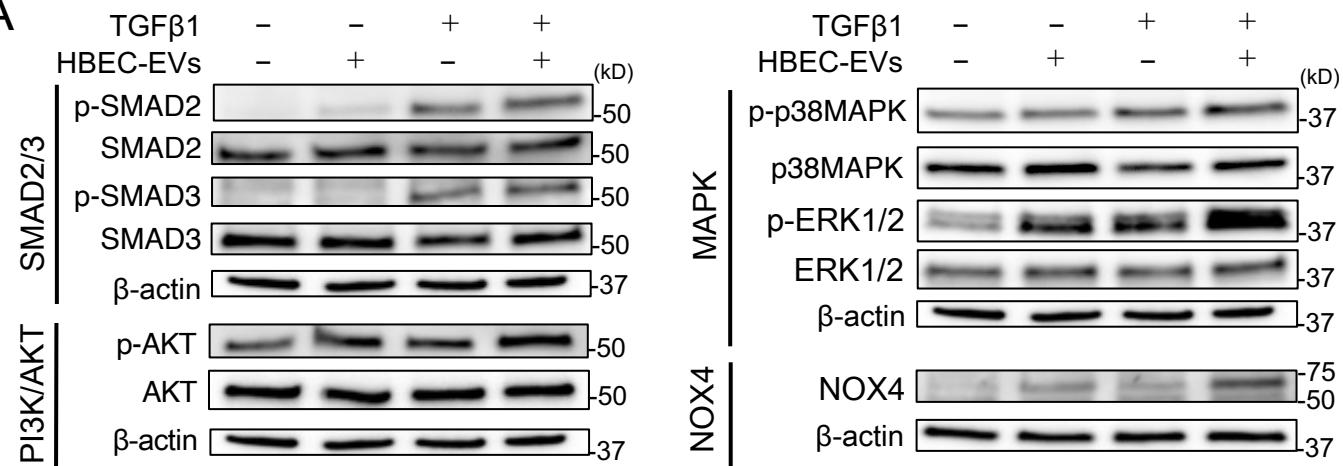
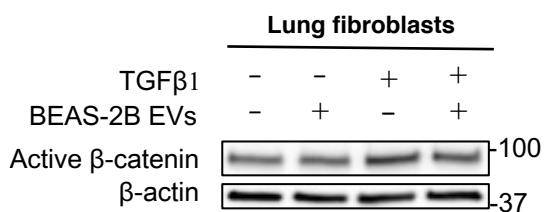
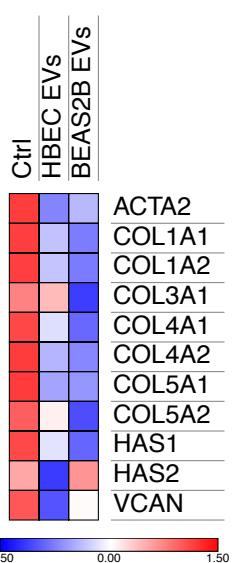
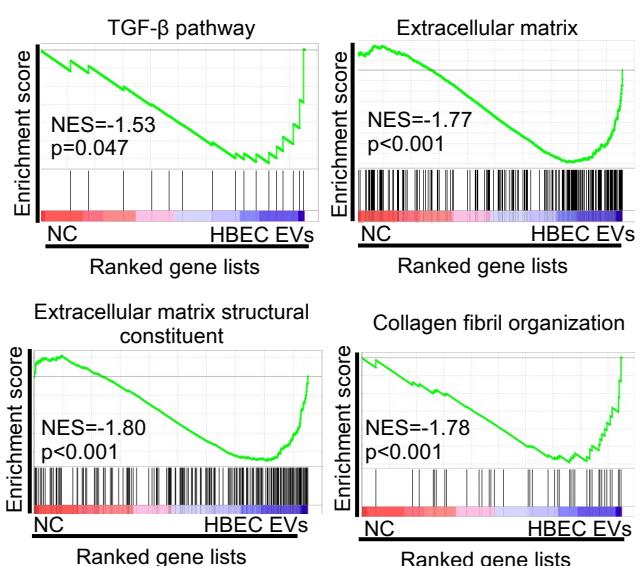
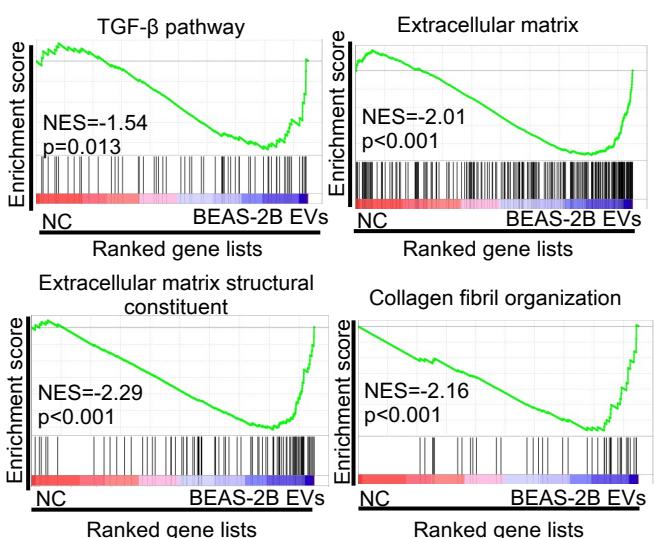
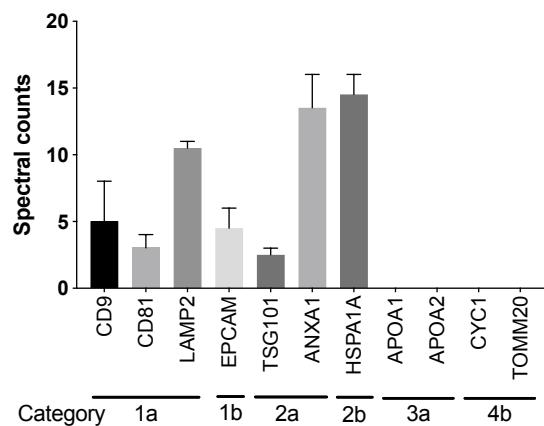
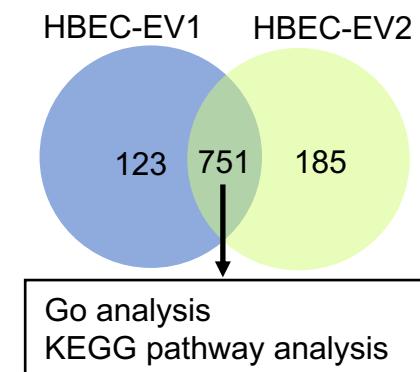
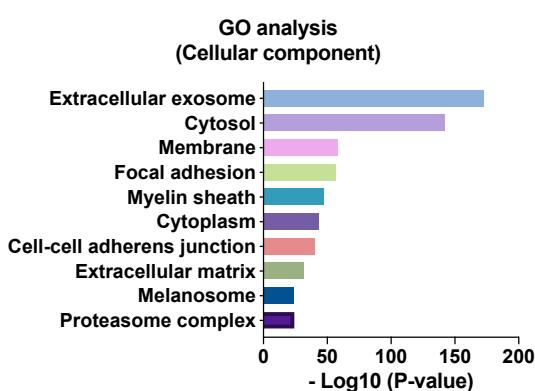
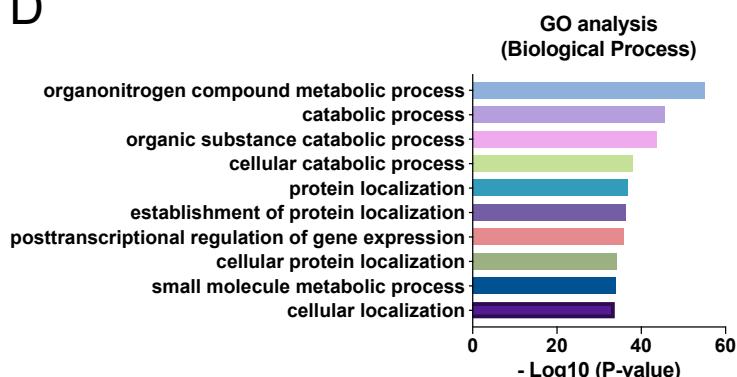
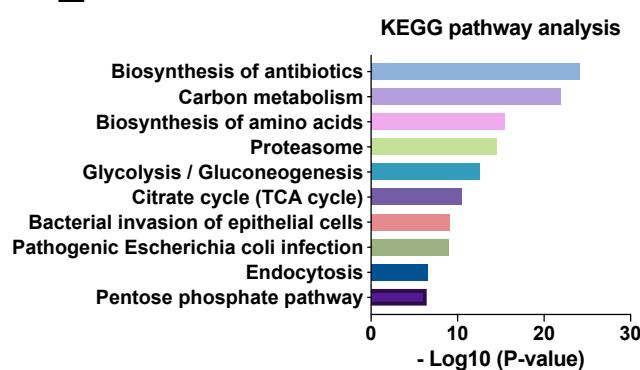
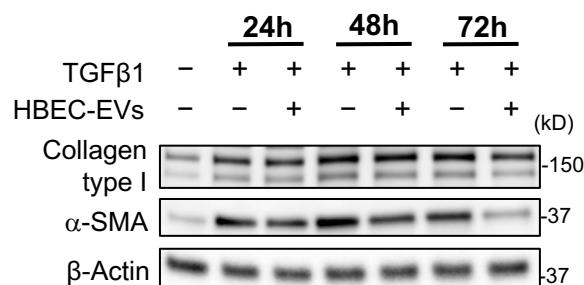
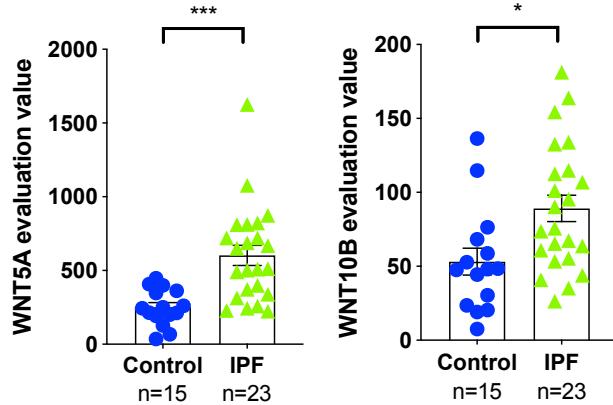
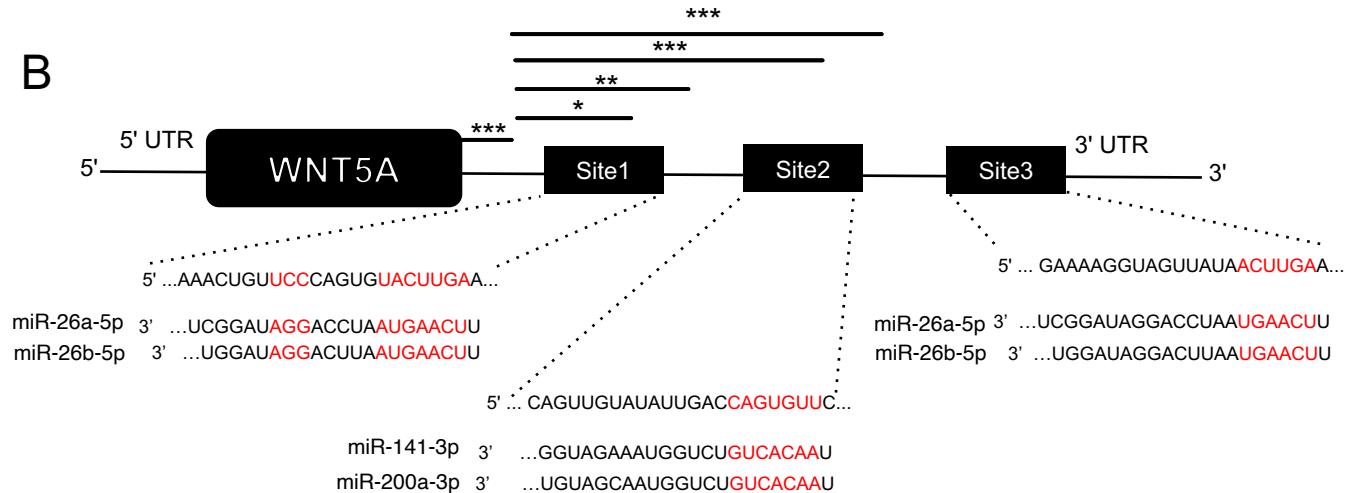
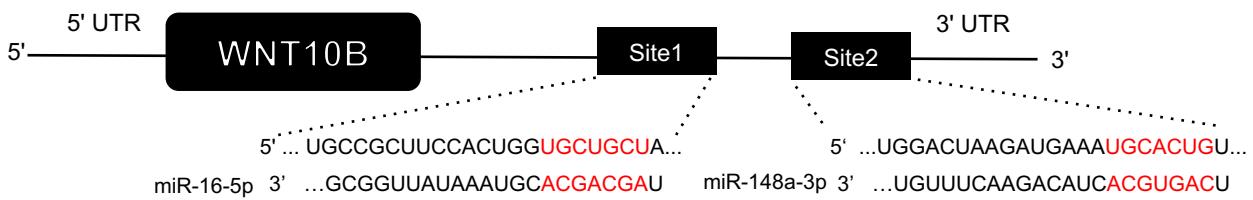
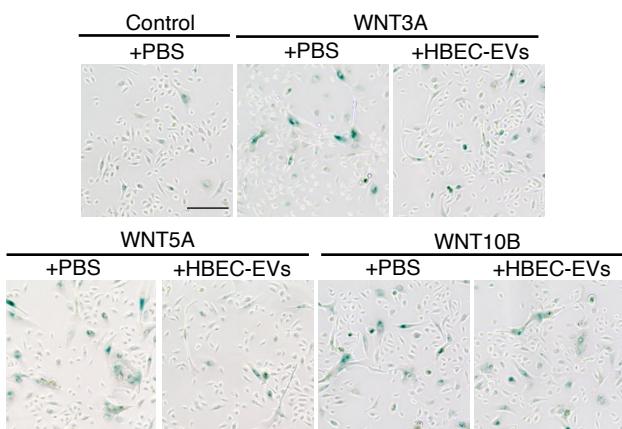
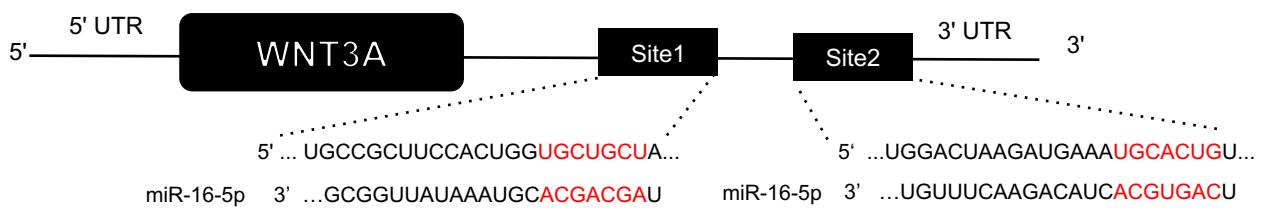
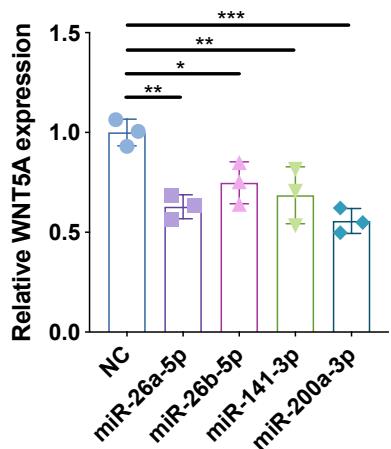
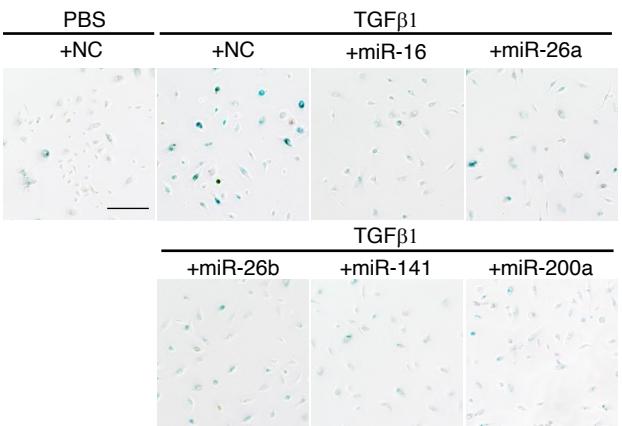


**Fig.S1**

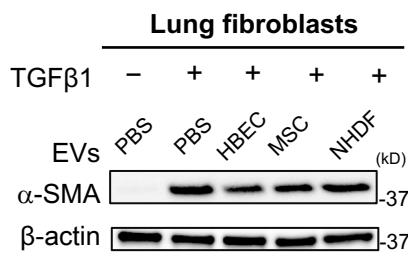
**A****B****C****D****E****Fig.S2**

**A****B****C****D****E****F****Fig.S3**

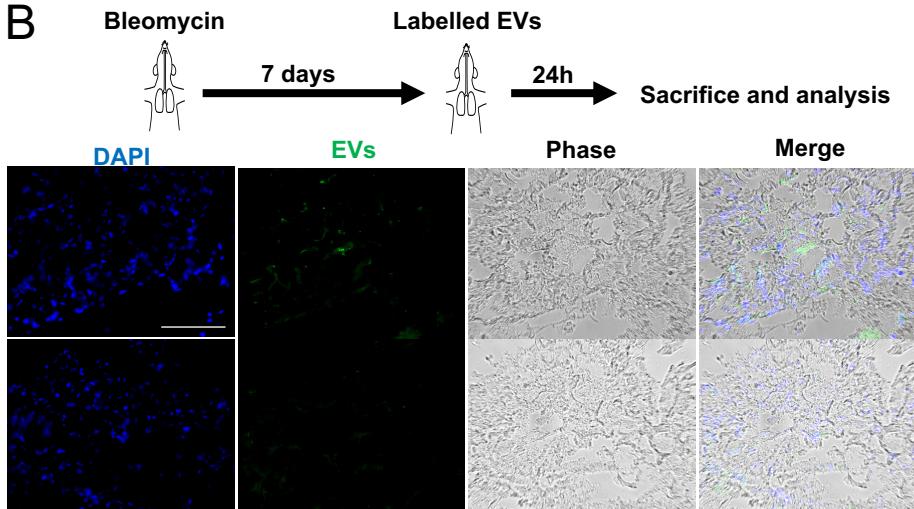
**A****B****C****Fig. S4**

**A****B****C****D****Fig.S5**

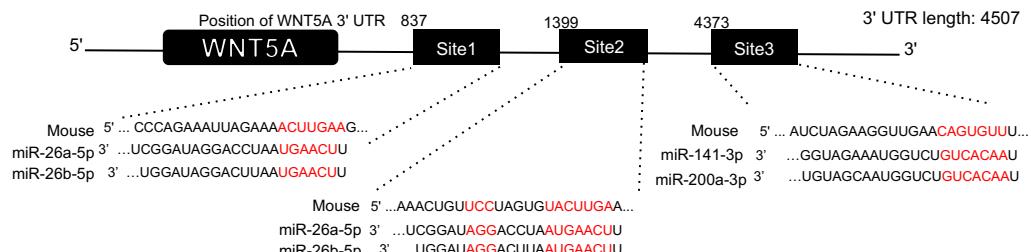
A



B



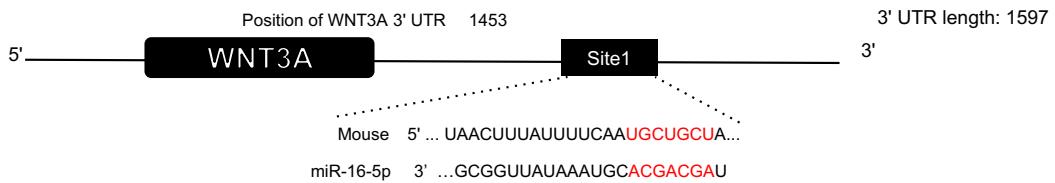
C



D



E



F

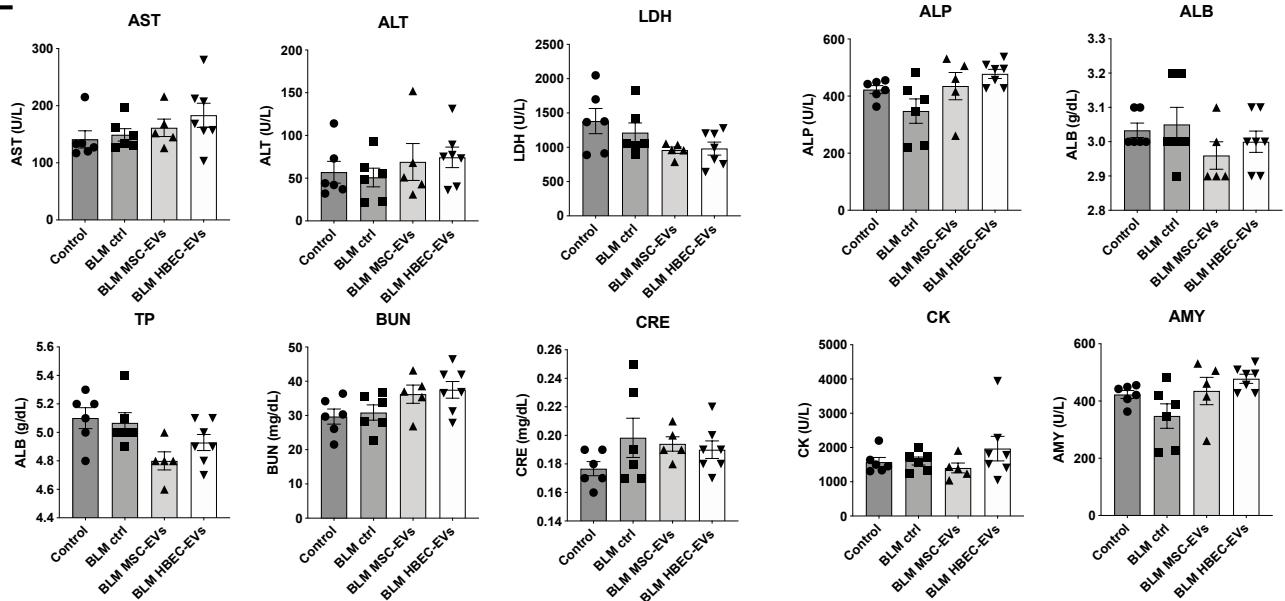
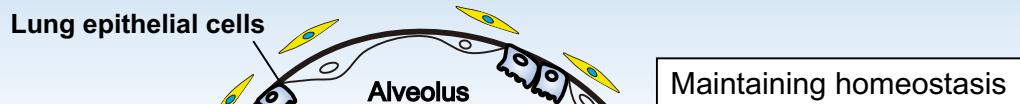


Fig.S6

## Healthy



Airway

Alveolus

Maintaining homeostasis

Fibroblast

## IPF



HBEC EVs

Senescent epithelial cells

miR-16, miR-26a, miR-26b,  
miR-141, miR-148a, miR-200a

WNT3A ↓ WNT5B ↓

Anti-senescence activity

Myofibroblast  
Extracellular matrix

miR-16, miR-26a, miR-26b,  
miR-141, miR-200a

WNT5B ↓ WNT10B ↓

Suppression of myofibroblast differentiation  
Degradation of the extracellular matrix

Anti-fibrotic therapy

Fig.S7