

Table S1. Primer sequence of genes for PCR and qPCR.

Gene	Primer sequence
ITGB4 (human)	Forward: 5'-CACCTCCGTCTCCTCCCAC -3' Reverse: 5'-GTTGGGGATGTTGAGCCGAT -3'
MUC5AC (human)	Forward: 5'-AGCCGGGAACCTACTACTCG -3' Reverse: 5'-AAGTGGTCATAGGCTTCGTGC -3'
β -actin (human)	Forward: 5'-TTGCAGCTCCTTCGTTGCC -3' Reverse: 5'-GACCCATTCCCACCATCACA -3'
MUC5AC (mouse)	Forward: 5'-GTGGTTTGACACTGACTTCCC -3' Reverse: 5'-CTCCTCTCGGTGACAGAGTCT -3'
β -actin (mouse)	Forward: 5'-ATATCGCTGCGCTGGTCGTC -3' Reverse: 5'-AGGATGGCGTGAGGGAGAGC-3'

Table S2. Demographic characteristics of RSV patients and healthy controls.

	Healthy controls	RSV patients
Number of subjects	15	11
Sex(F/M)	7/8	6/5
Age	4.40[0.08-11]	2.91[0.25-4]
<24 months	10	8
Only RSV	0	8
RSV+ADV	0	0
RSV+IFV	0	1
RSV+PIV	0	0
RSV+UU	0	2
WBC ($10^9/L$)	7.33 [4.5-12.1]	10.40 [6.5-14.3] ***
CRP (mg/L)	2.65[0.02-6.83]	13[5.0-21.17] ***

All data are presented as median. ADV = adenovirus, PIV = parainfluenza virus, IFV= influenza virus, UU = mycoplasma, WBC = whole blood cell count, CRP = C-reactive protein. Controls VS RSV patients (Unpaired t test). *** p<0.01; **** p<0.001

Figure S1. Immunofluorescence staining of MUC5AC and ITGB4 in ITGB4^{-/-} mice after RSV infection. (n = 10). Scale bar, 25 μm.

