FIG. 1

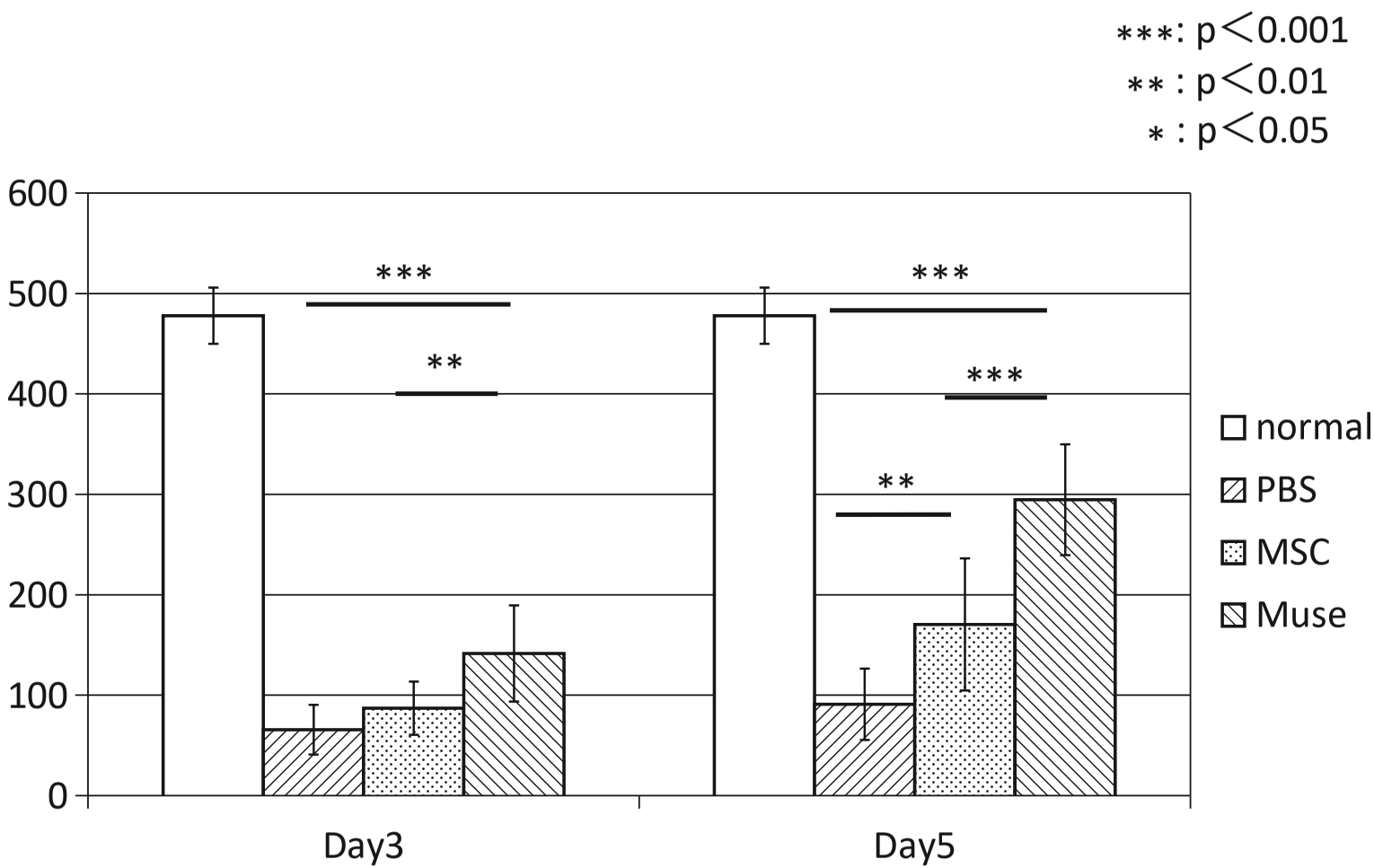

***: p＜0.001
** : p＜0.01
* : p＜0.05
600
500
400
300
200
100
0
***
**
***
***
**
Day3
Day5
normal
PBS
MSC
Muse

FIG. 2

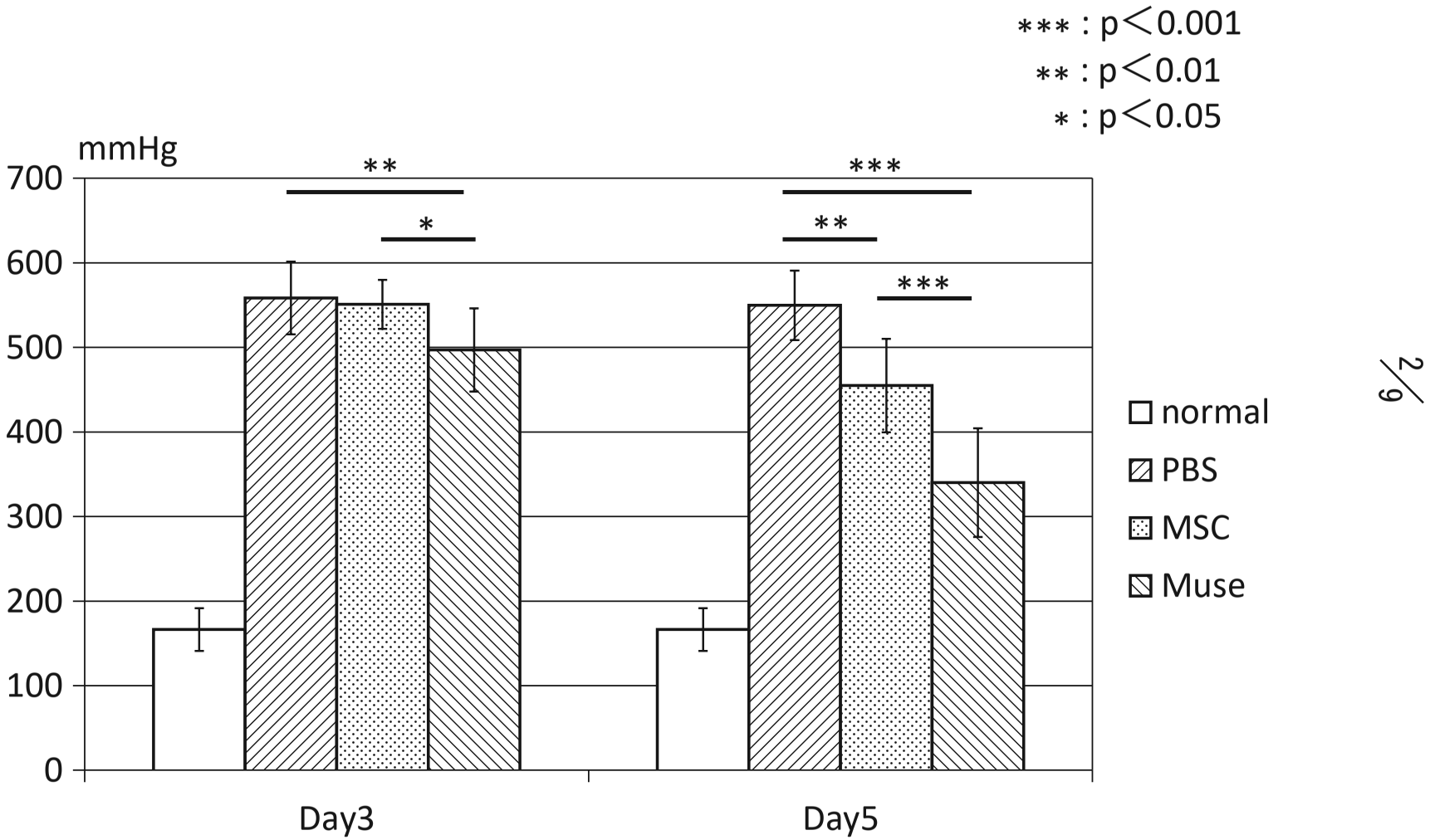

***：p＜0.001
**：p＜0.01
*：p＜0.05
mmHg
700
600
500
400
300
200
100
0
**
*
***
**
***
Day3
Day5
normal
PBS
MSC
Muse

FIG. 3

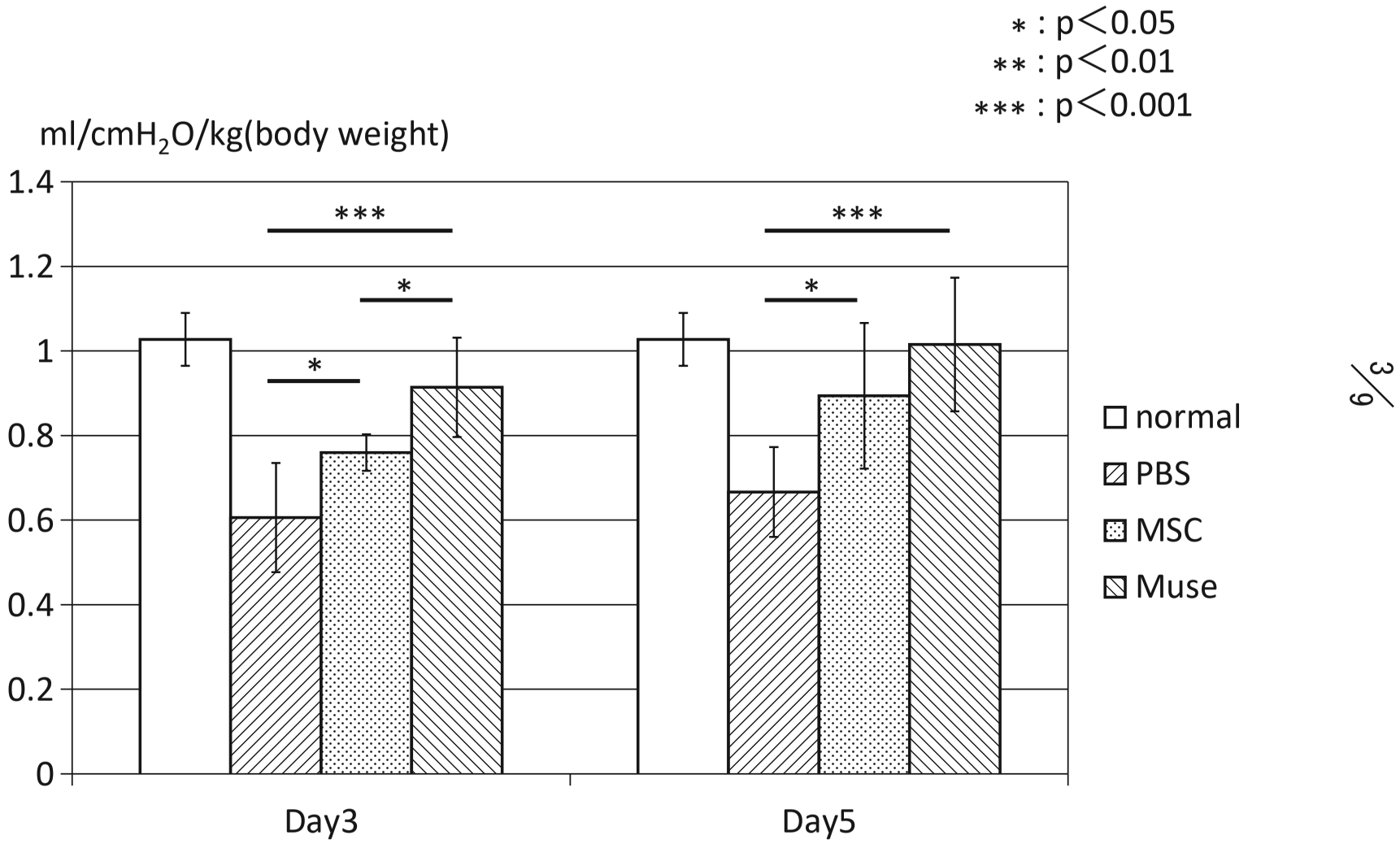

＊：p＜0.05
＊＊：p＜0.01
＊＊＊：p＜0.001
ml/cmH2O/kg(body weight)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
＊＊＊
＊
＊
＊＊＊
＊
Day3
Day5
normal
PBS
MSC
Muse

FIG. 4

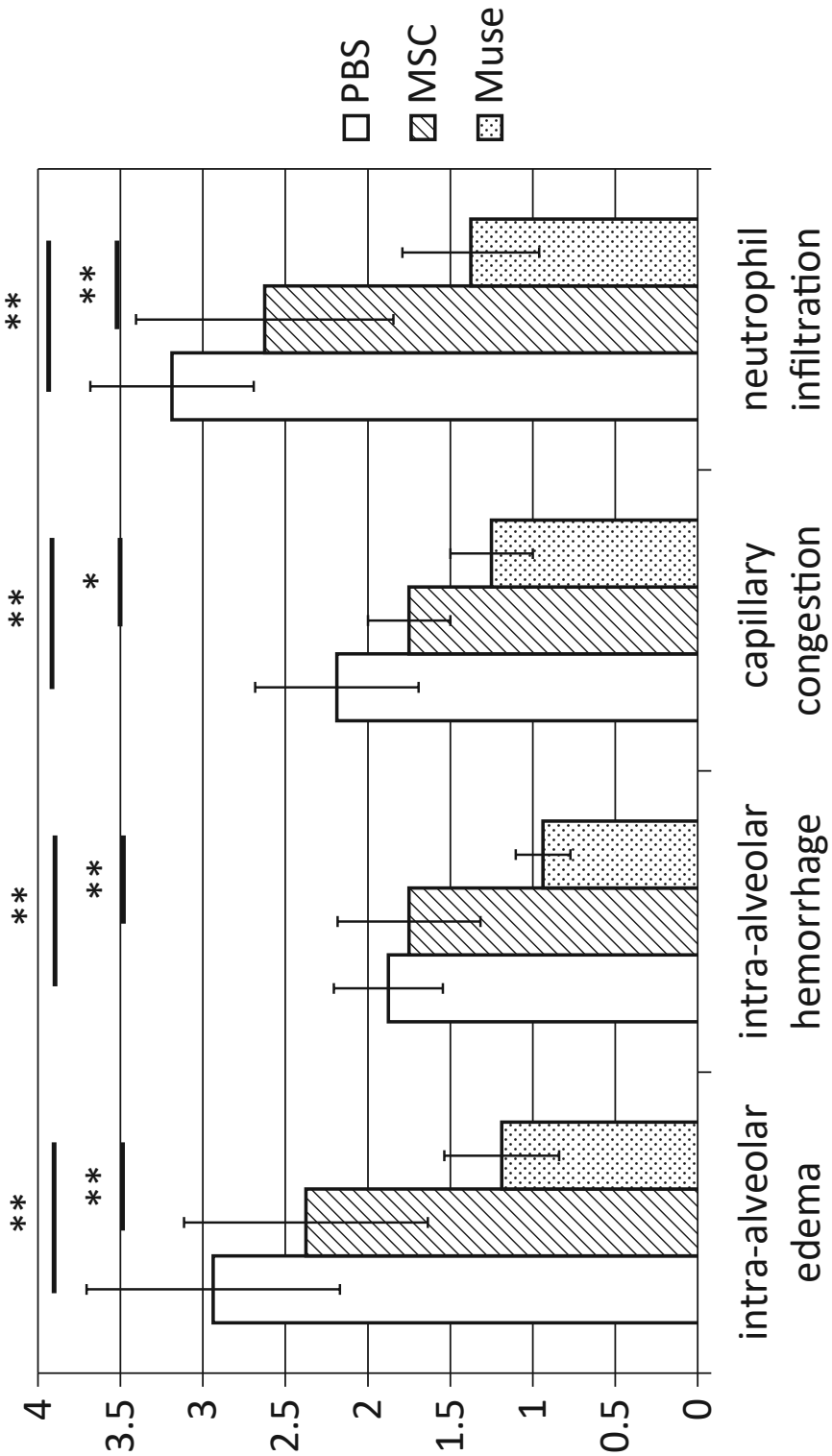

PBS
MSC
Muse
4
3.5
3
2.5
2
1.5
1
0.5
0
**
**
**
**
**
**
*
**
intra-alveolar edema
intra-alveolar hemorrhage
capillary congestion
neutrophil infiltration

FIG. 5

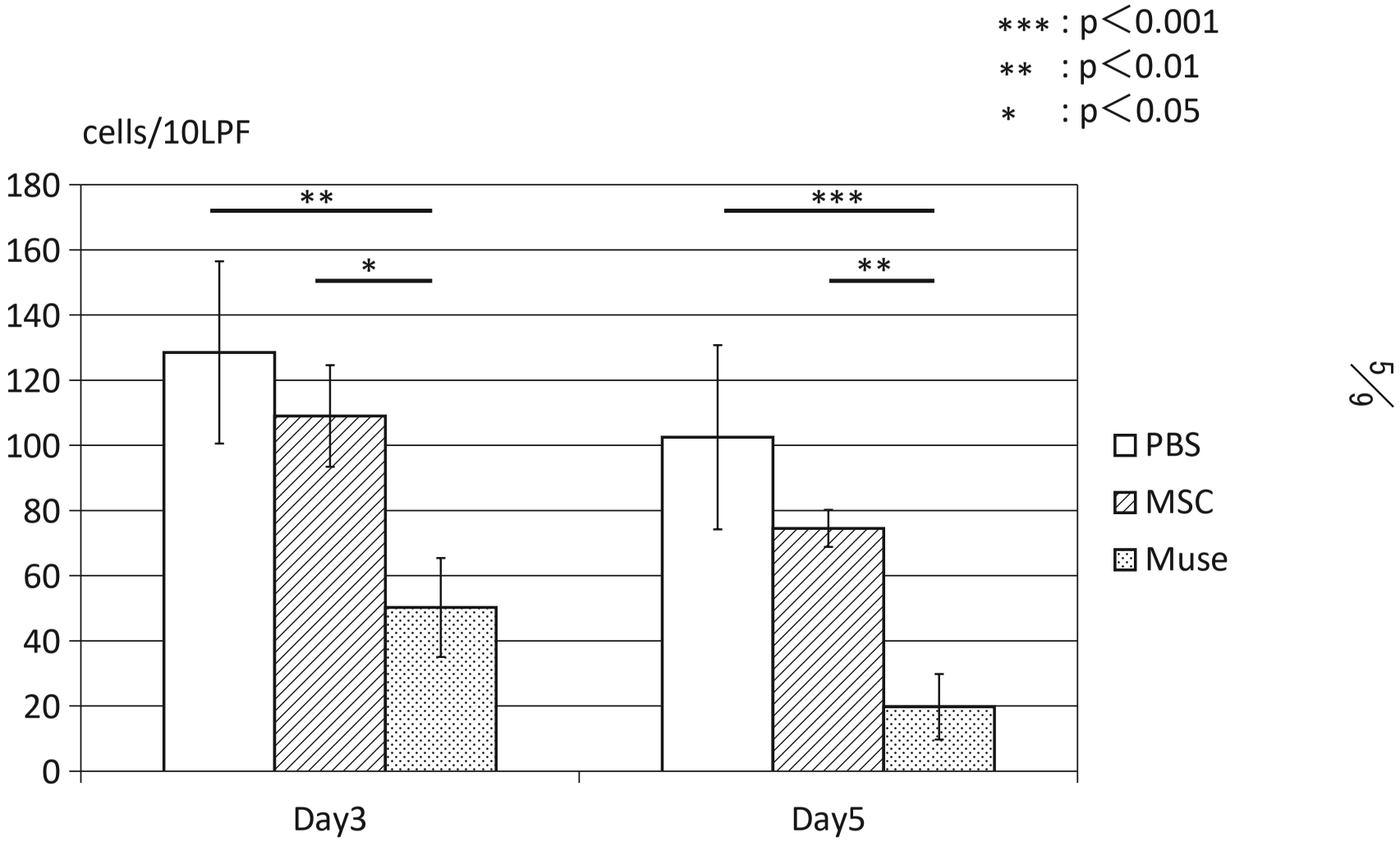

***：p＜0.001
**　：p＜0.01
*　：p＜0.05
cells/10LPF
180
160
140
120
100
80
60
40
20
0
**
*
***
**
Day3
Day5
PBS
MSC
Muse

FIG. 6

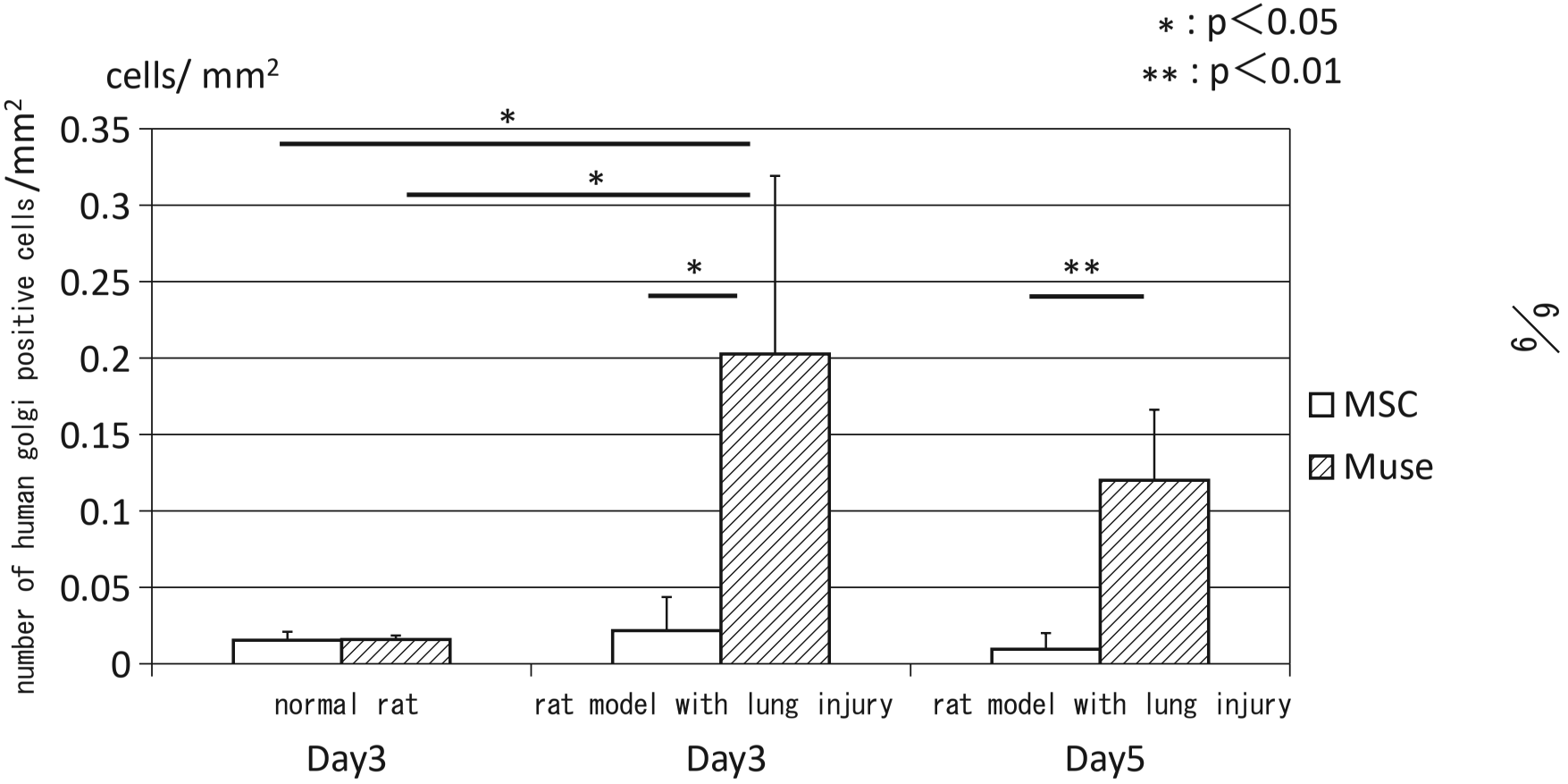

＊：p＜0.05
＊＊：p＜0.01
cells/ mm2
number of human golgi positive cells /mm2
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
＊
＊
＊
＊＊
MSC
Muse
normal rat
Day3
rat model with lung injury
Day3
rat model with lung injury
Day5

FIG. 7A

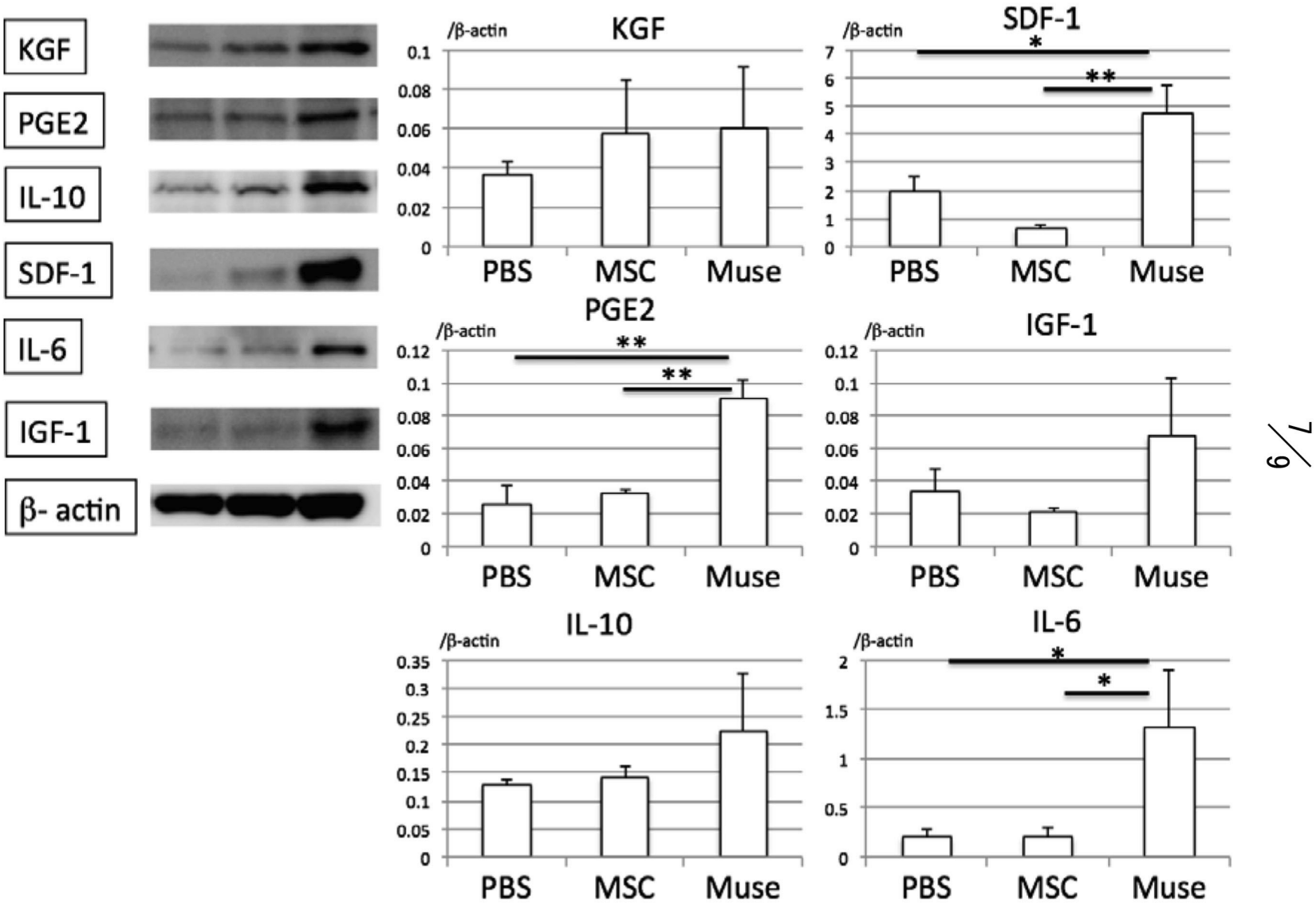

KGF
PGE2
IL-10
SDF-1
IL-6
IGF-1
β- actin
/β-actin
KGF
SDF-1
PGE2
IGF-1
IL-10
IL-6
PBS
MSC
Muse
*
**

FIG. 7B

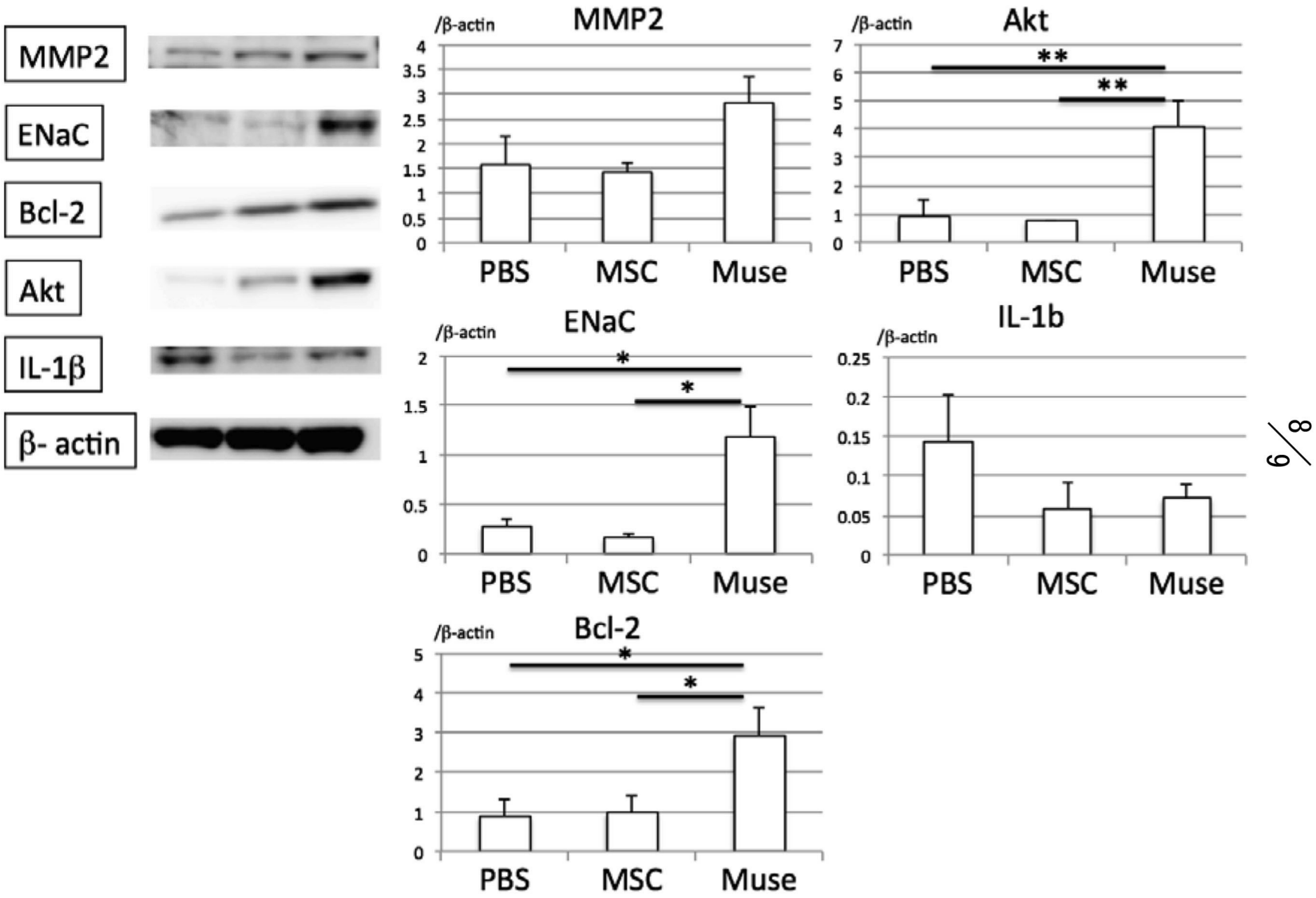
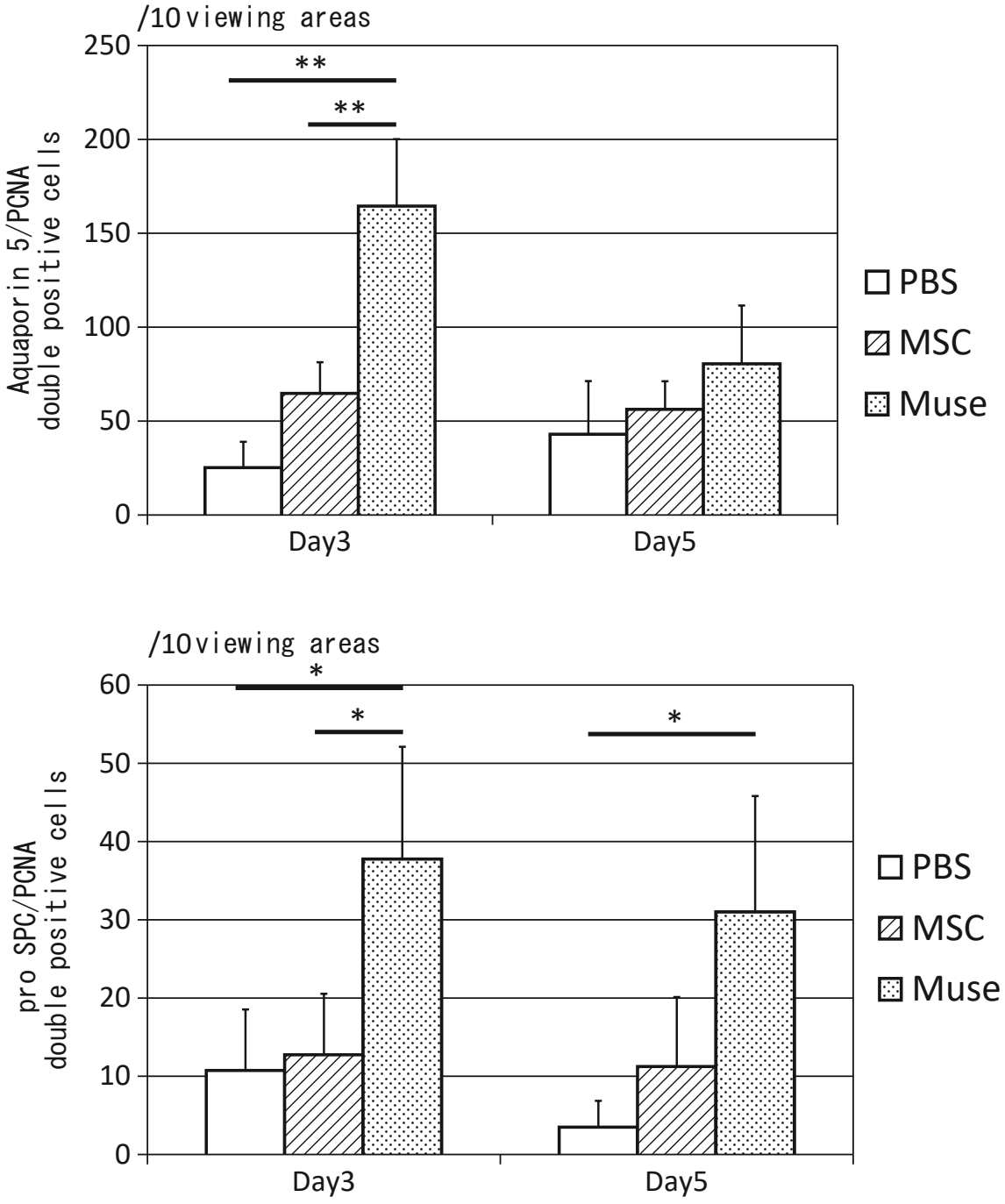

MMP2
ENaC
Bcl-2
Akt
IL-1β
β- actin
/β-actin
MMP2
Akt
ENaC
IL-1b
Bcl-2
PBS
MSC
Muse
*
**

FIG. 8


/10viewing areas
Aquaporin 5/PCNA double positive cells
250
200
150
100
50
0
**
**
Day3
Day5
PBS
MSC
Muse
/10viewing areas
pro SPC/PCNA double positive cells
60
50
40
30
20
10
0
*
*
*
Day3
Day5
PBS
MSC
Muse