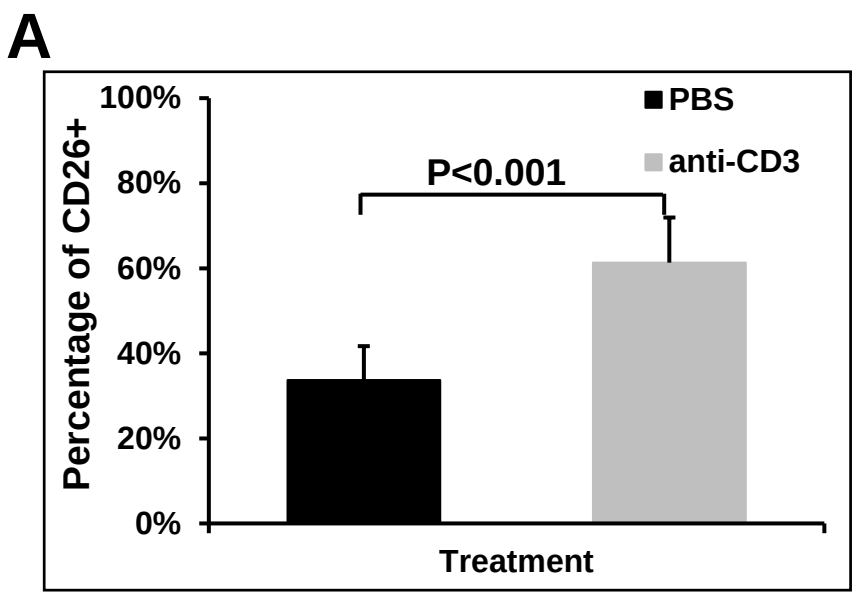
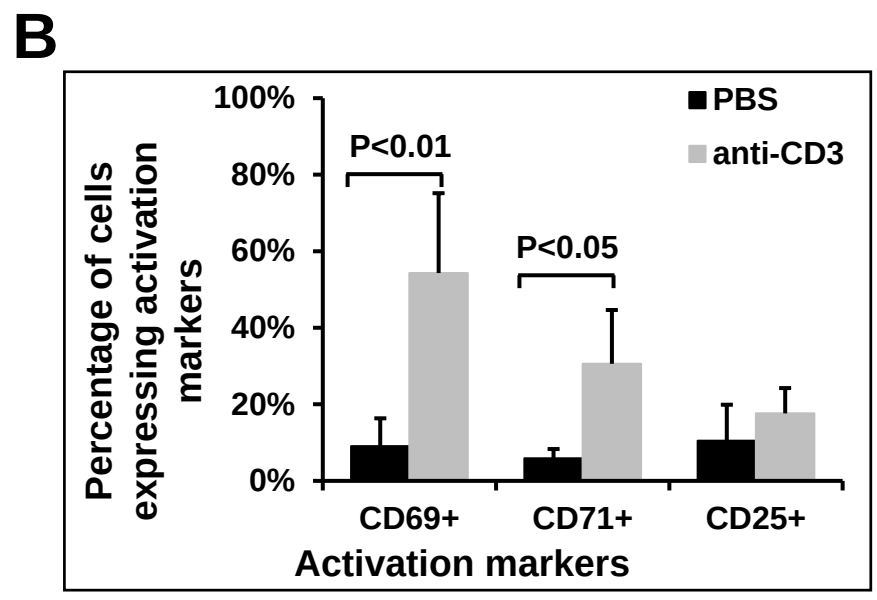
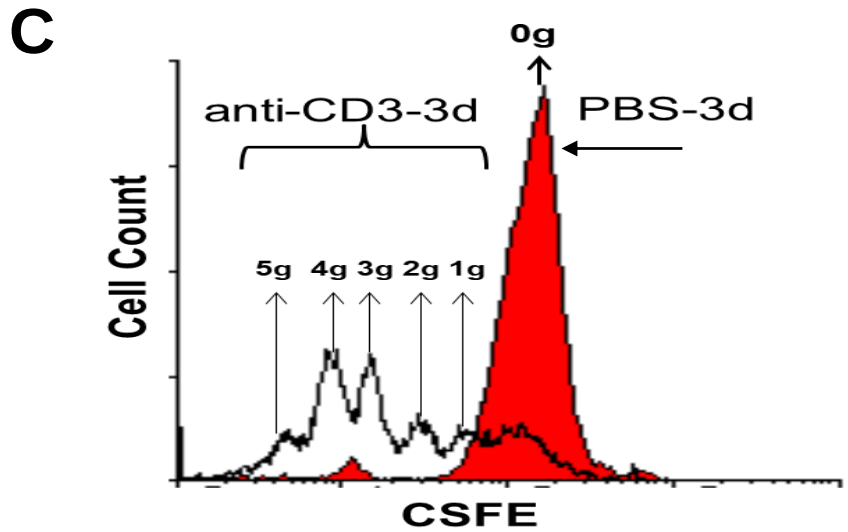
Figure 1


A
100%
80%
60%
40%
20%
0%
Percentage of CD26+
PBS
anti-CD3
P<0.001
Treatment


B
100%
80%
60%
40%
20%
0%
Percentage of cells expressing activation markers
PBS
anti-CD3
P<0.01
P<0.05
CD69+
CD71+
CD25+
Activation markers


C
0g
anti-CD3-3d
PBS-3d
5g 4g 3g 2g 1g
Cell Count
CSFE

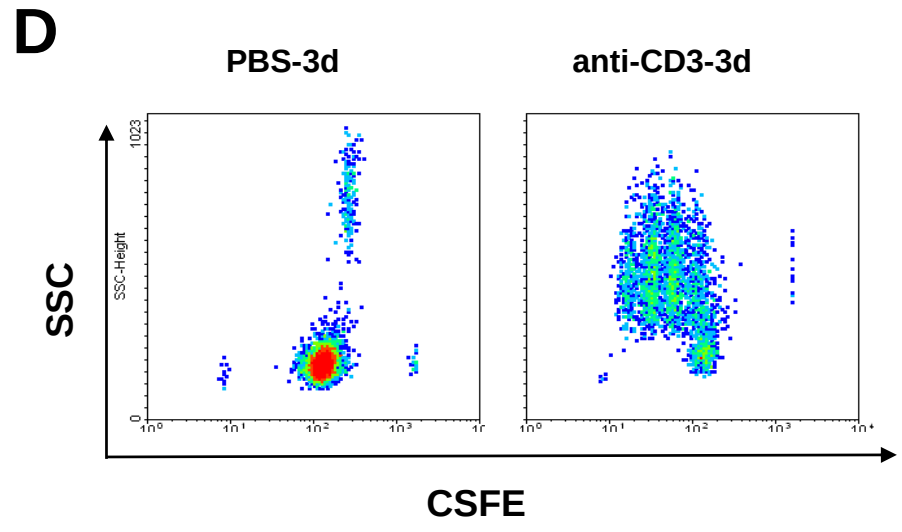
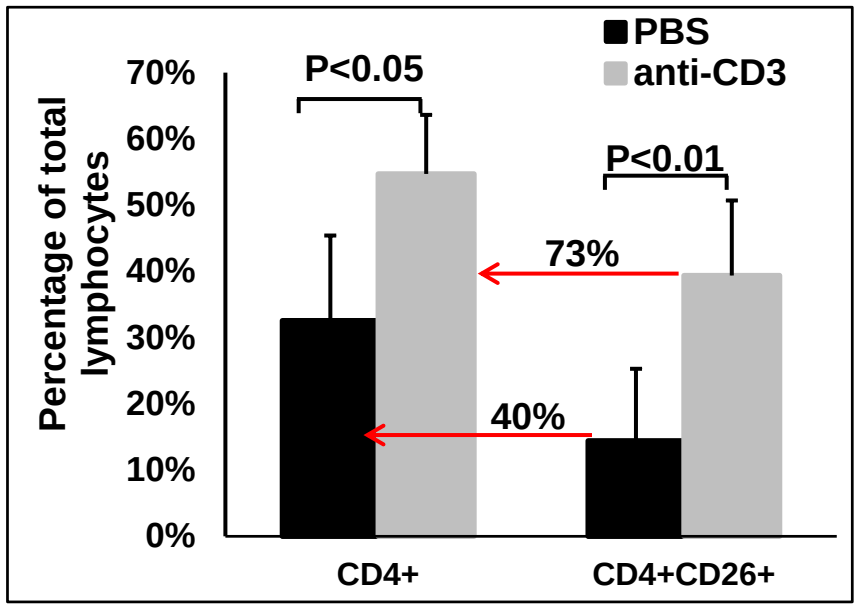
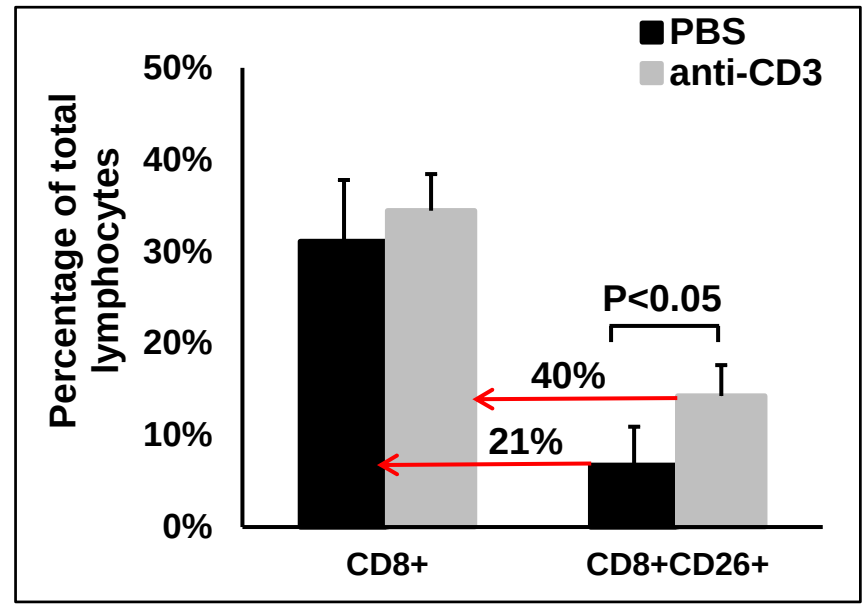

D
PBS-3d
anti-CD3-3d
SSC
SSC-Height
1023
0
CSFE

Figure 2

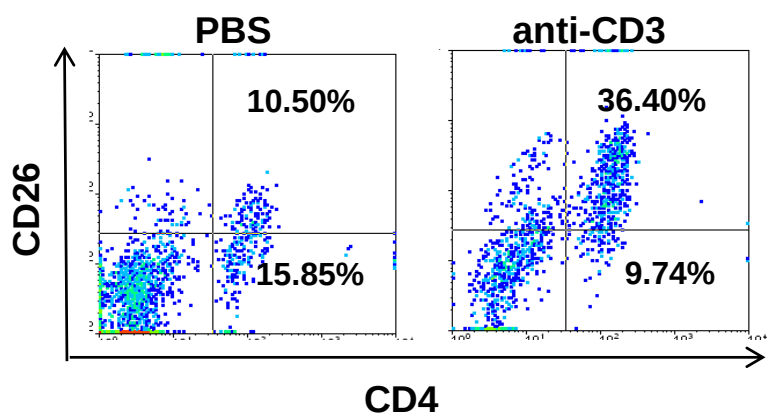
A



C



B



D

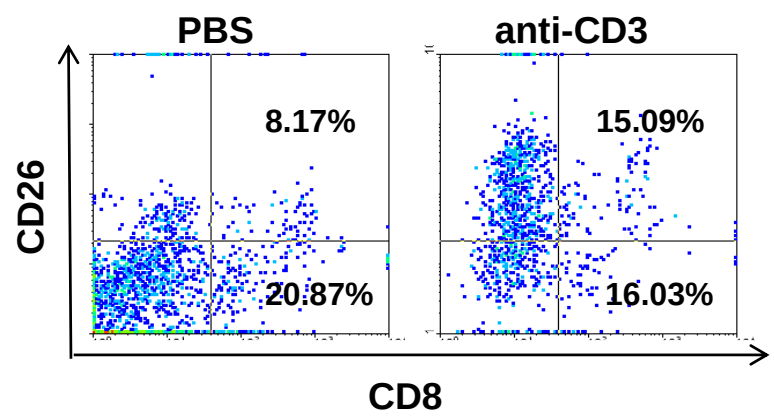
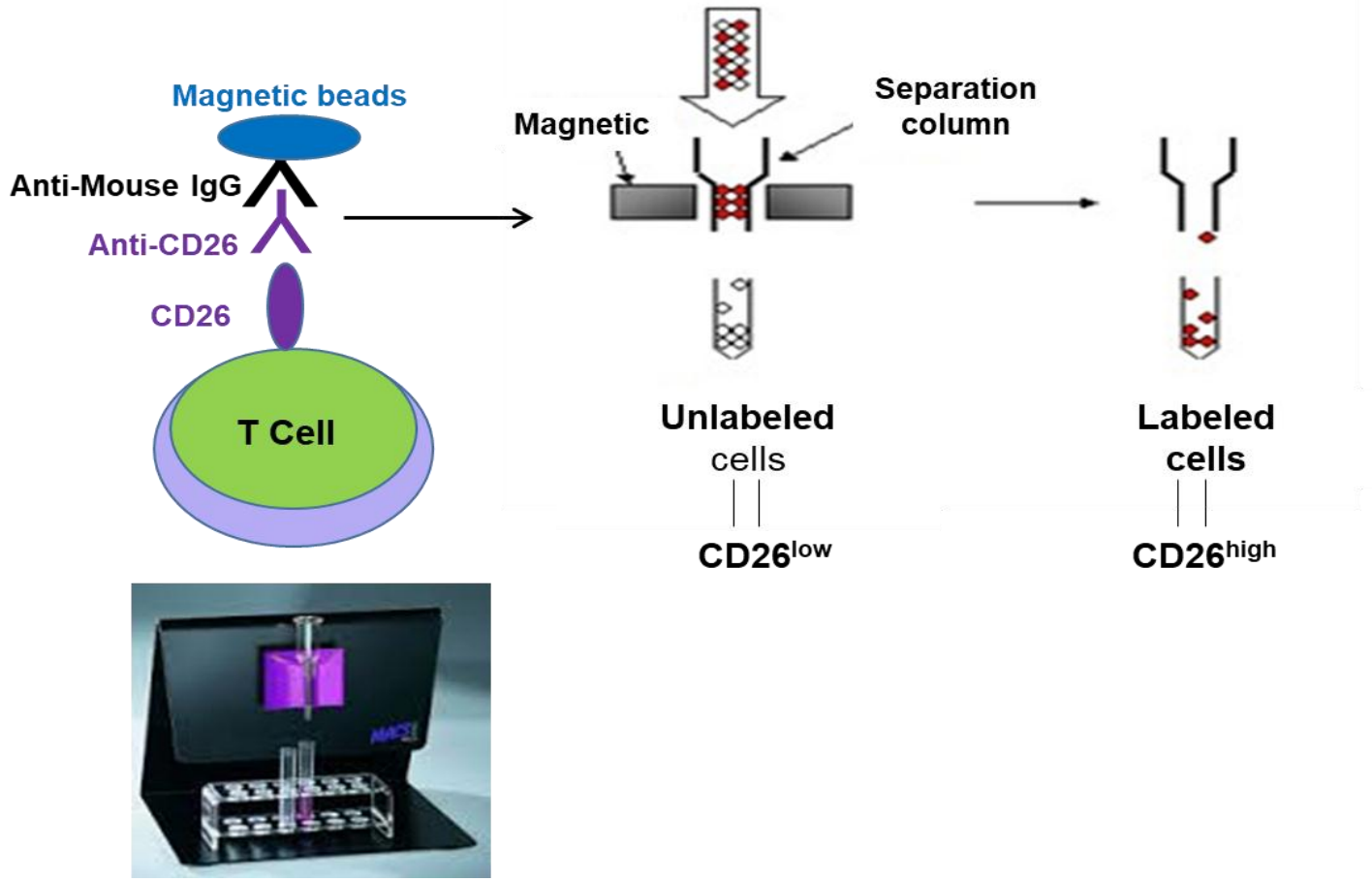
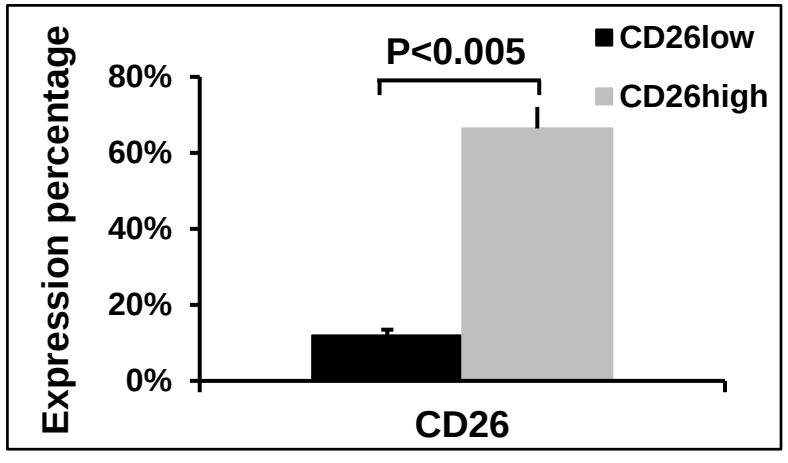


Figure 3

A


Magnetic beads
Anti-Mouse IgG
Anti-CD26
CD26
T Cell
Magnetic
Separation column
Unlabeled cells
CD26low
Labeled cells
CD26high

B


Expression percentage
80%
60%
40%
20%
0%
P<0.005
CD26low
CD26high
CD26

C

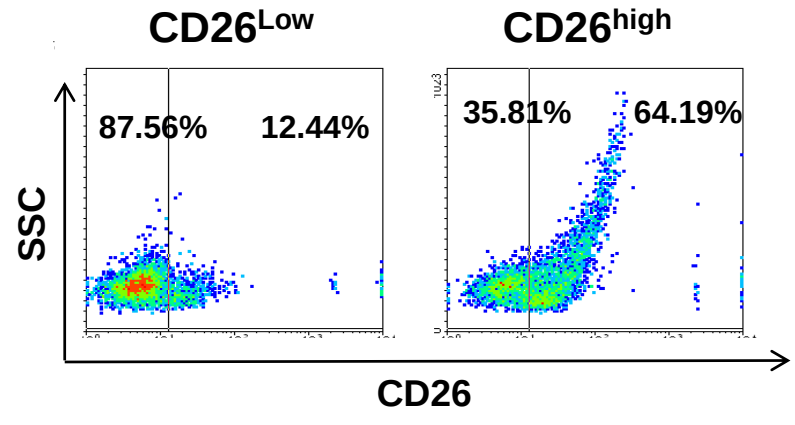
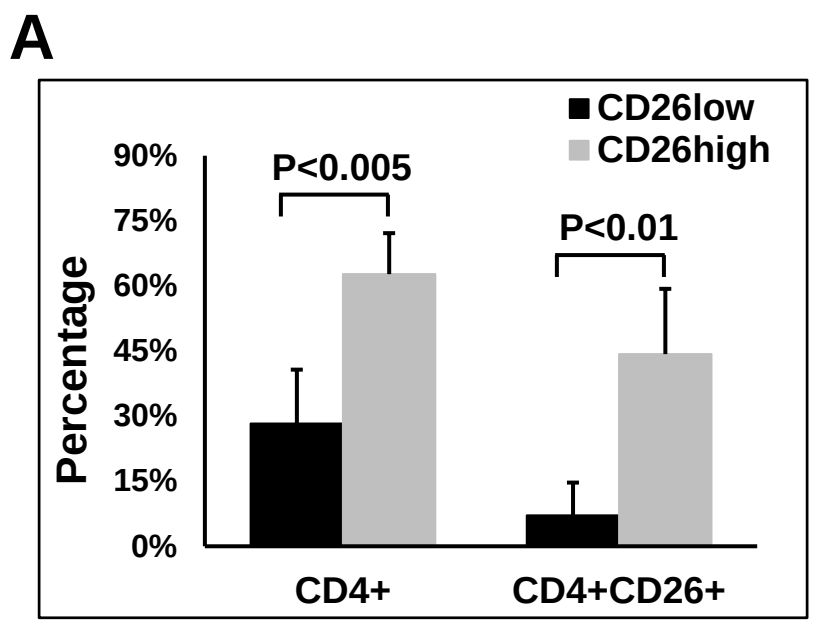
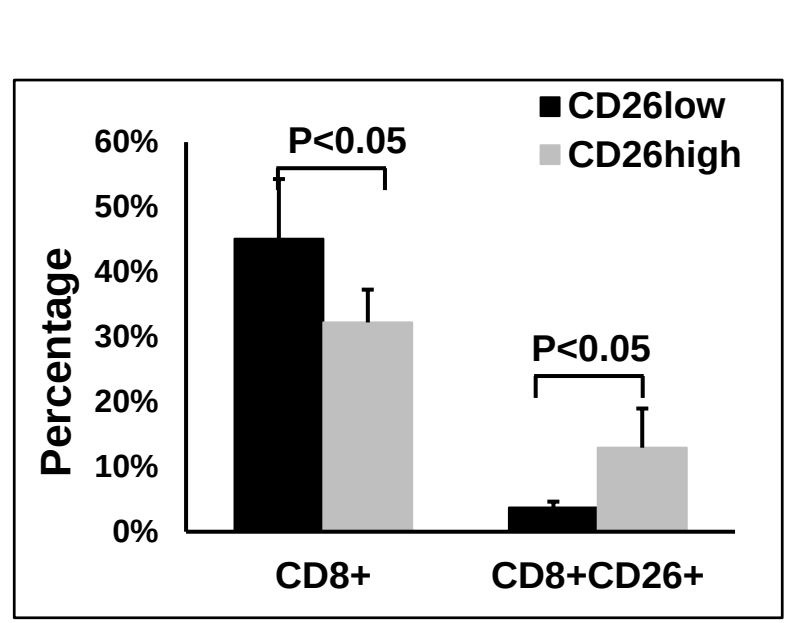
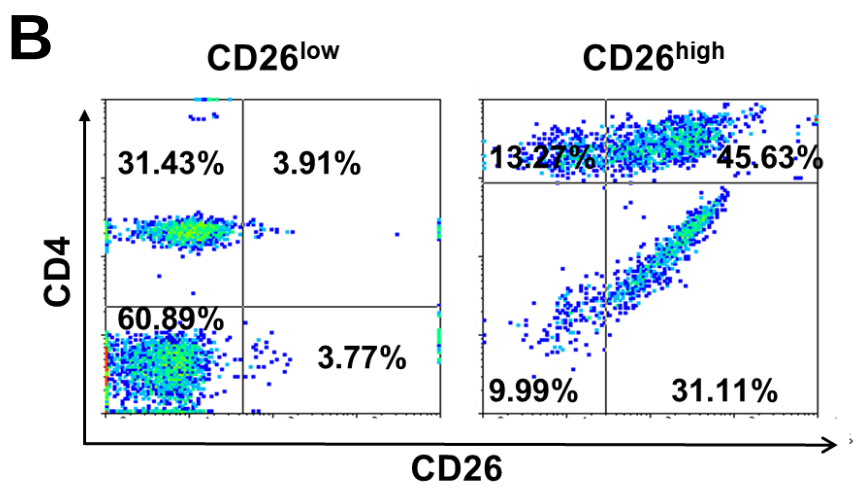

CD26Low
CD26high
87.56%
12.44%
35.81%
64.19%
SSC
CD26

Figure 4


A
CD26low
CD26high
90%
75%
60%
45%
30%
15%
0%
Percentage
P<0.005
P<0.01
CD4+
CD4+CD26+


C
CD26low
CD26high
60%
50%
40%
30%
20%
10%
0%
Percentage
P<0.05
P<0.05
CD8+
CD8+CD26+


B
CD26low
CD26high
31.43%
3.91%
60.89%
3.77%
13.27%
45.63%
9.99%
31.11%
CD4
CD26

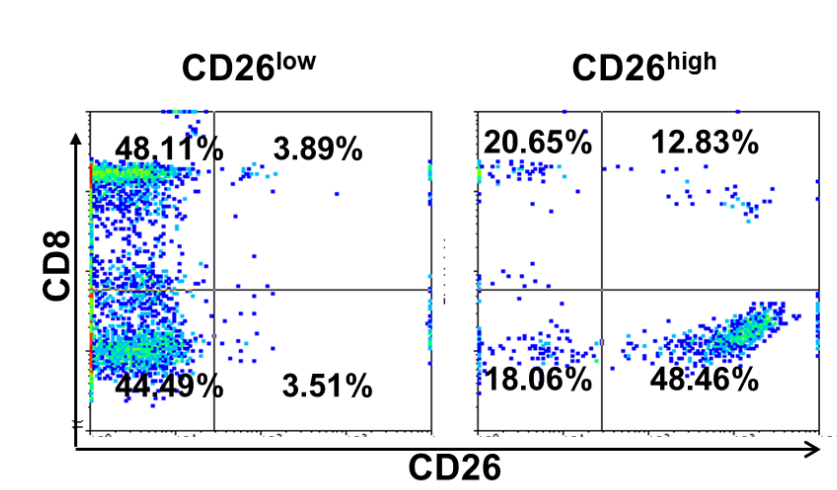
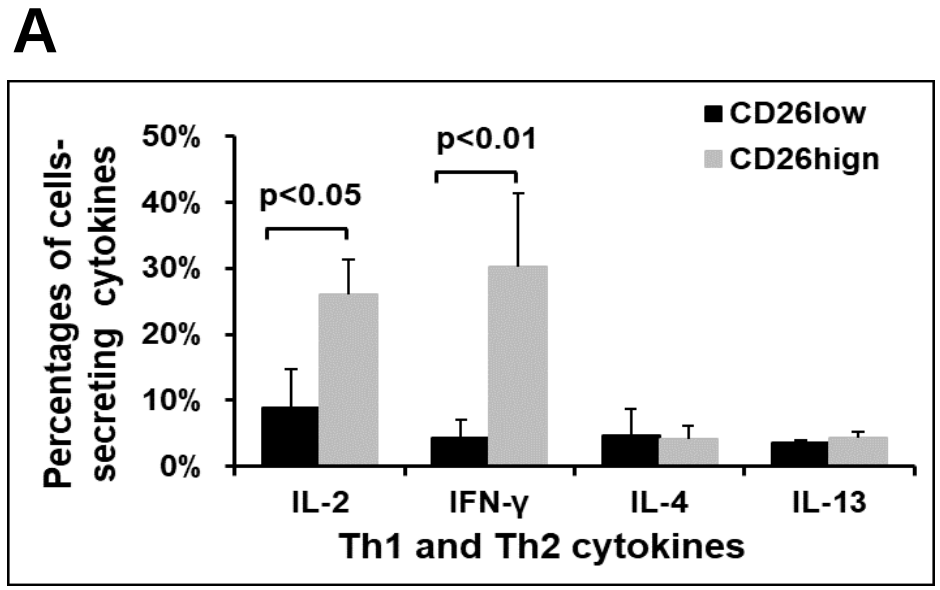
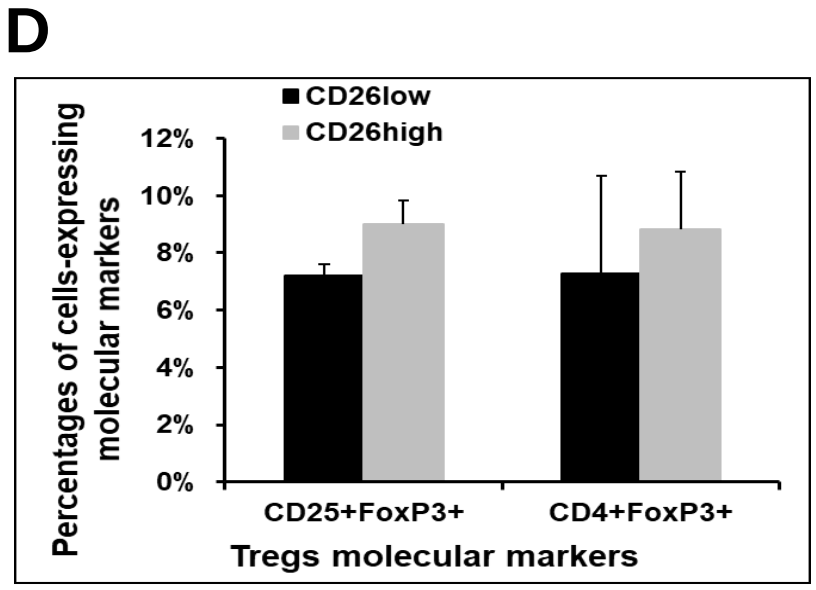
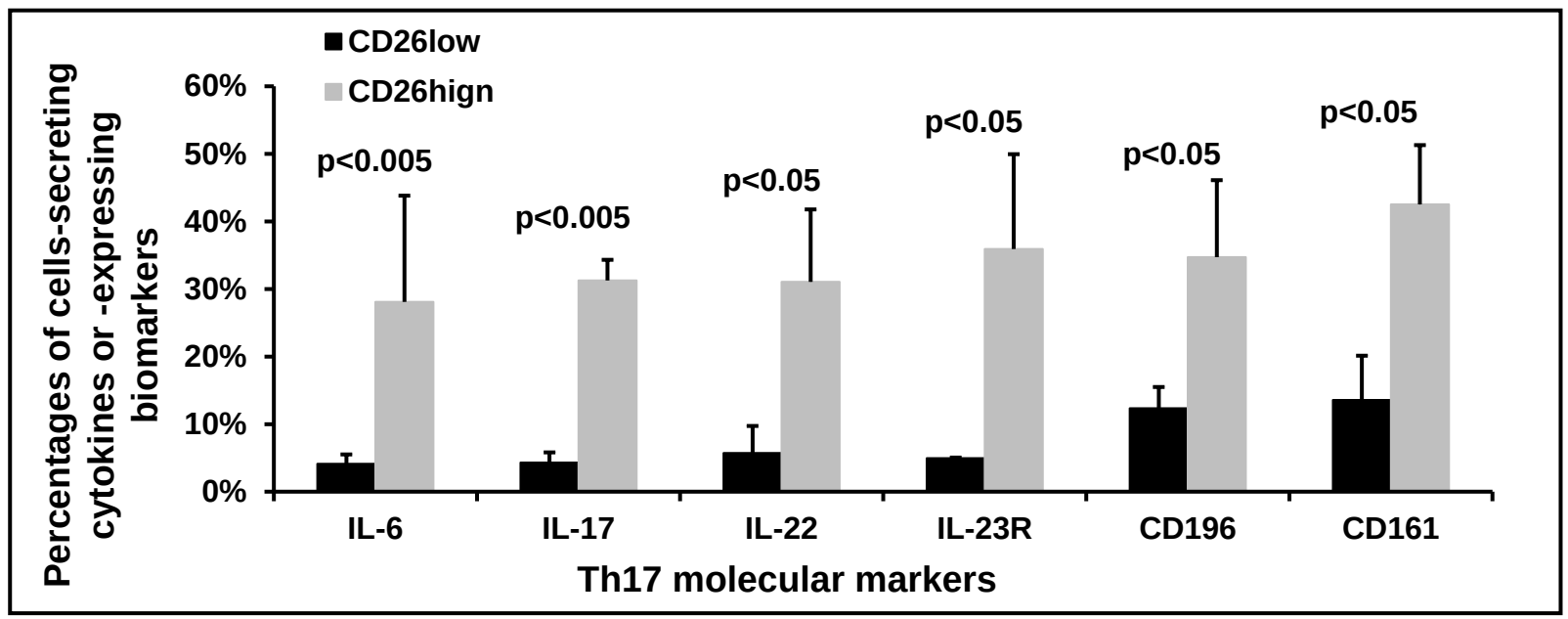

D
CD26low
CD26high
48.11%
3.89%
44.49%
3.51%
20.65%
12.83%
18.06%
48.46%
CD8
CD26

Figure 5


A
CD26low
CD26hign
p<0.05
p<0.01
Percentages of cells-secreting cytokines
50%
40%
30%
20%
10%
0%
IL-2
IFN-γ
IL-4
IL-13
Th1 and Th2 cytokines


D
CD26low
CD26high
Percentages of cells-expressing molecular markers
12%
10%
8%
6%
4%
2%
0%
CD25+FoxP3+
CD4+FoxP3+
Tregs molecular markers


B
CD26low
CD26hign
Percentages of cells-secreting cytokines or -expressing biomarkers
60%
50%
40%
30%
20%
10%
0%
p<0.005
p<0.005
p<0.05
p<0.05
p<0.05
p<0.05
IL-6
IL-17
IL-22
IL-23R
CD196
CD161
Th17 molecular markers

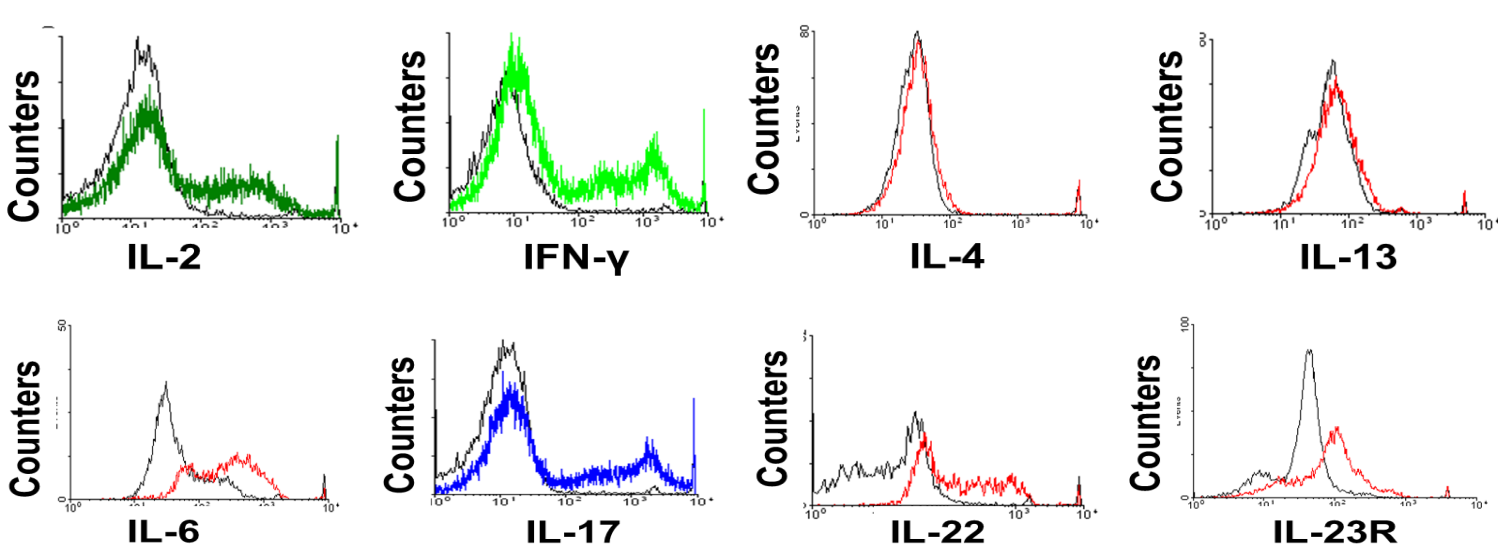
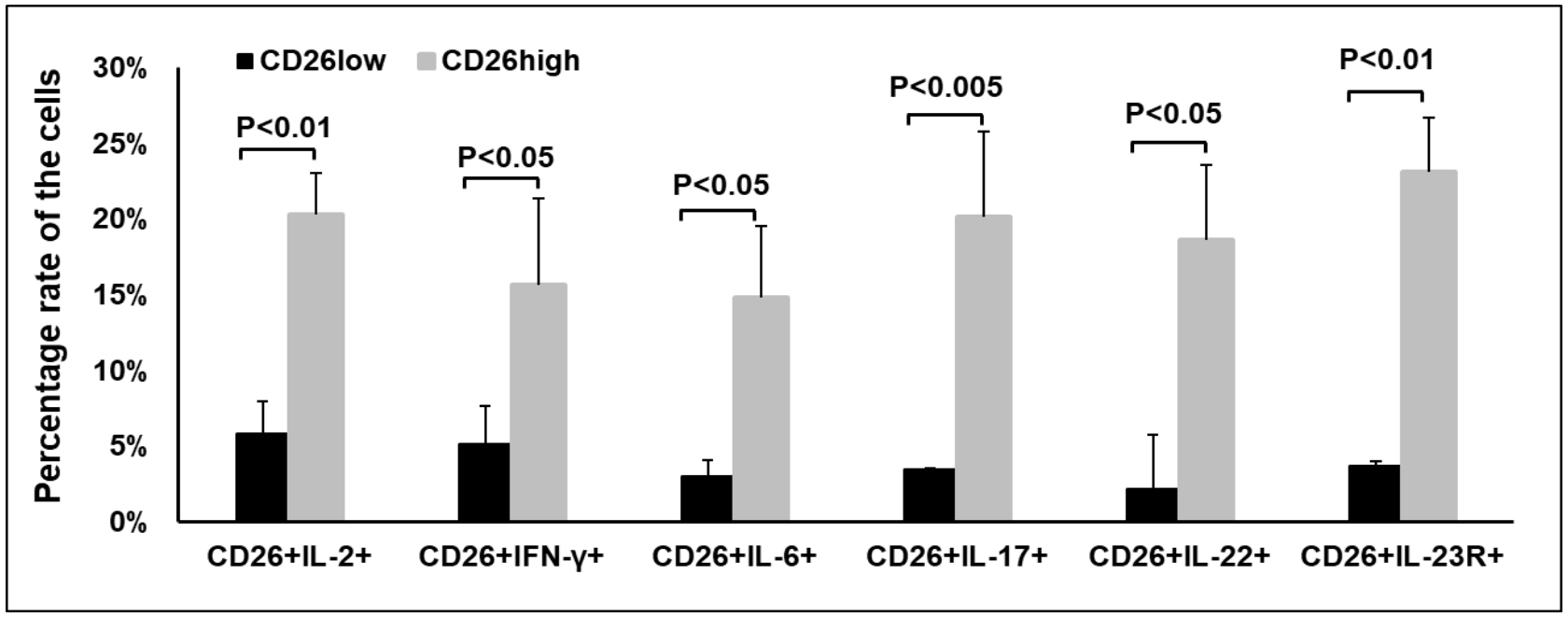
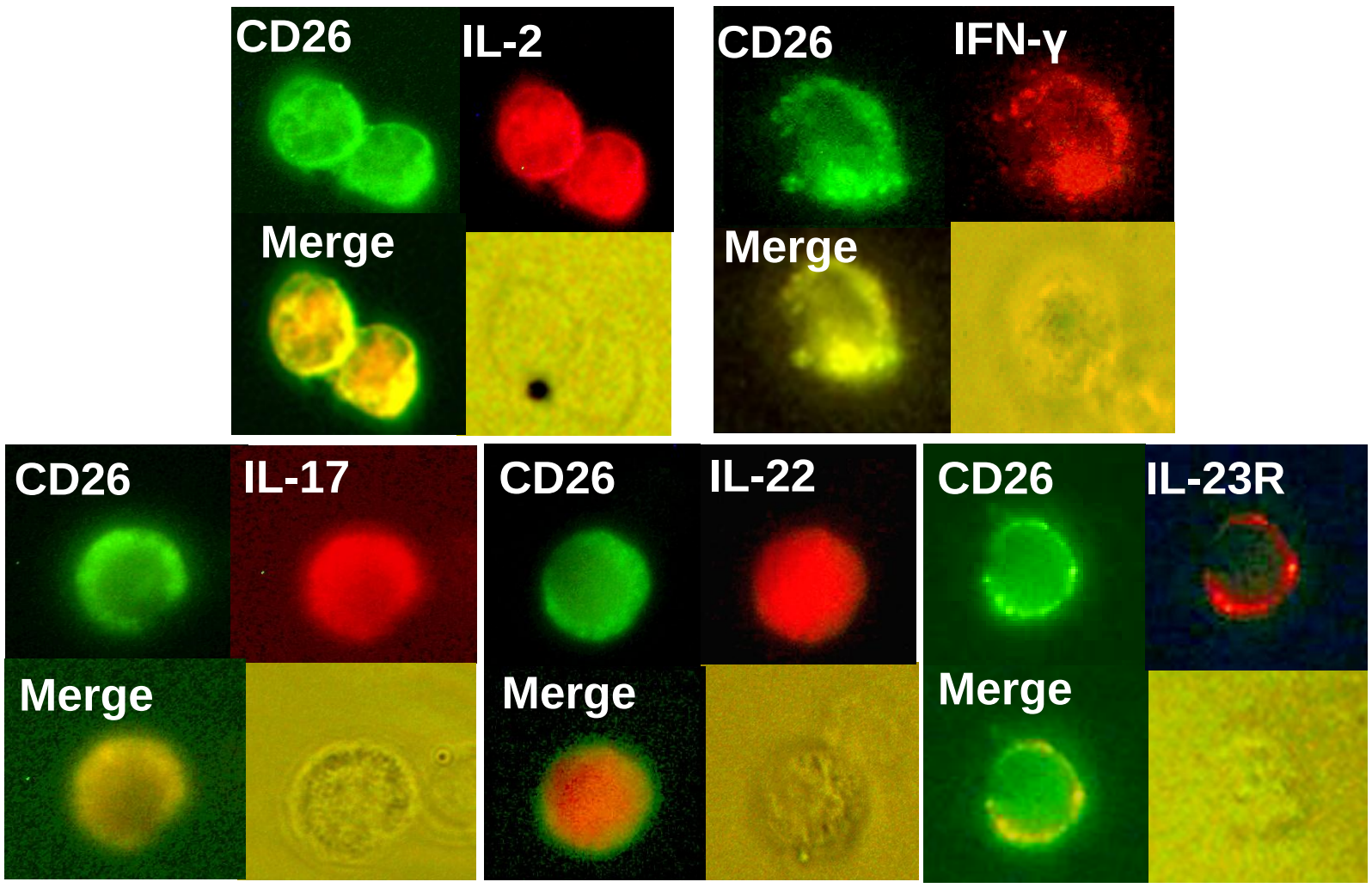

C
Counters
IL-2
IFN-γ
IL-4
IL-13
IL-6
IL-17
IL-22
IL-23R

Figure 6

A


CD26low
CD26high
Percentage rate of the cells
30%
25%
20%
15%
10%
5%
0%
P<0.01
P<0.05
P<0.05
P<0.005
P<0.05
P<0.01
CD26+IL-2+
CD26+IFN-γ+
CD26+IL-6+
CD26+IL-17+
CD26+IL-22+
CD26+IL-23R+

B


CD26
IL-2
Merge
CD26
IFN-γ
Merge
CD26
IL-17
Merge
CD26
IL-22
Merge
CD26
IL-23R
Merge