Figure 1

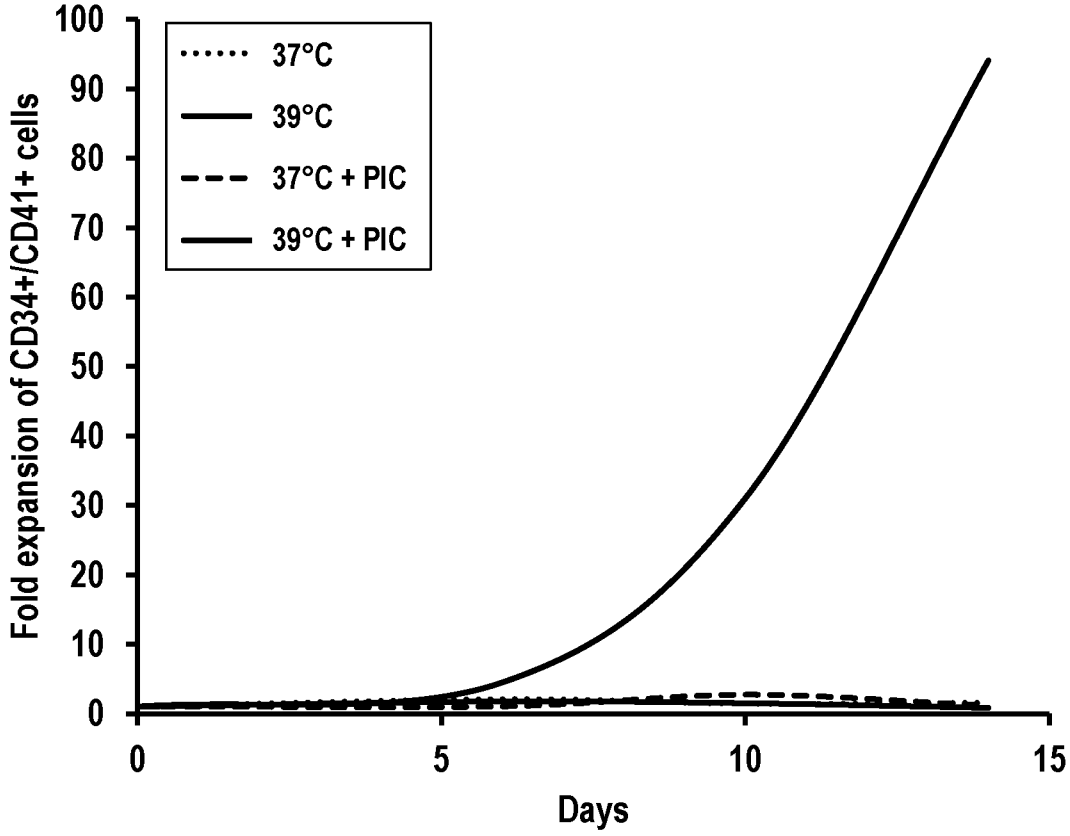

37°C
39°C
37°C + PIC
39°C + PIC
Fold expansion of CD34+/CD41+ cells
100
90
80
70
60
50
40
30
20
10
0
0
5
10
15
Days

Figure 2

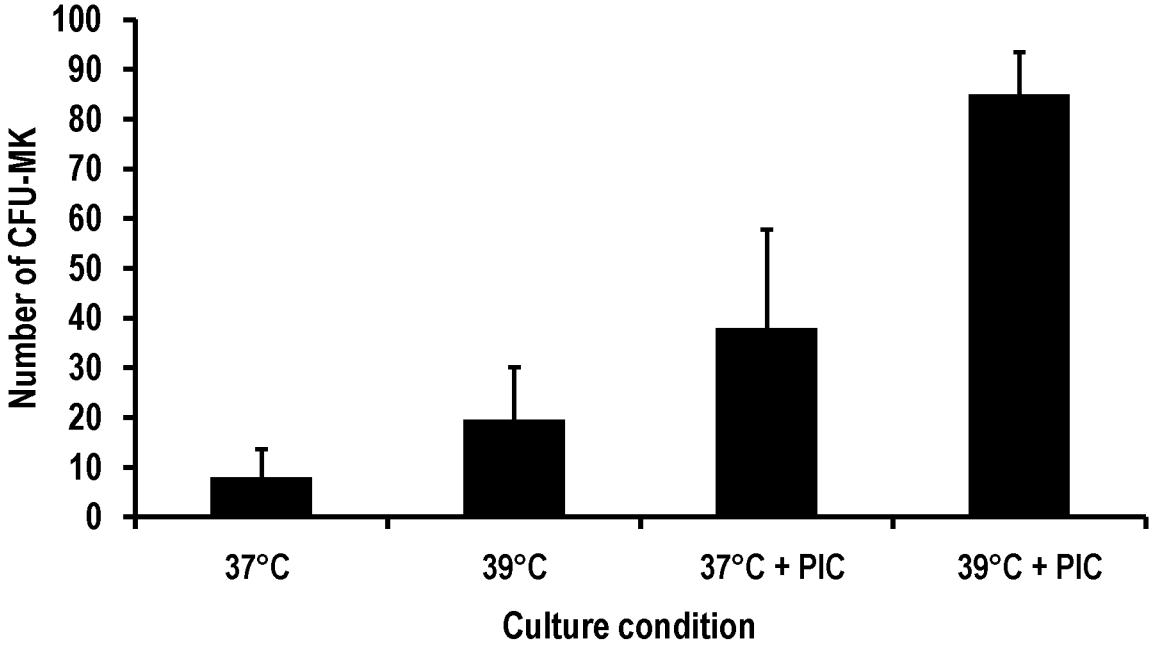
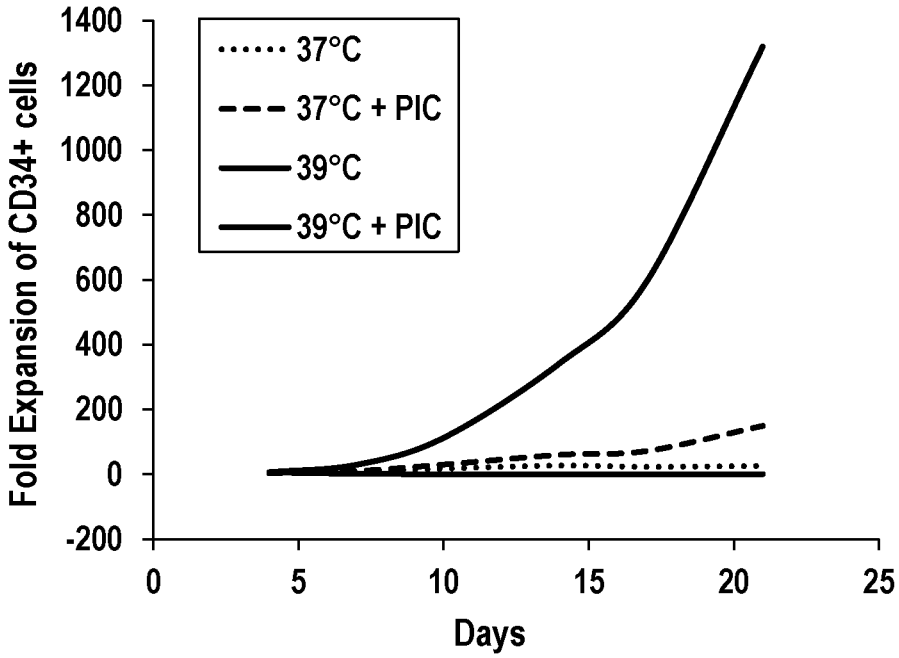

100
90
80
70
60
50
40
30
20
10
0
Number of CFU-MK
37°C
39°C
37°C + PIC
39°C + PIC
Culture condition

Figure 3

A.


Fold Expansion of CD34+ cells
1400
1200
1000
800
600
400
200
0
-200
0
5
10
15
20
25
Days
37°C
37°C + PIC
39°C
39°C + PIC

B.

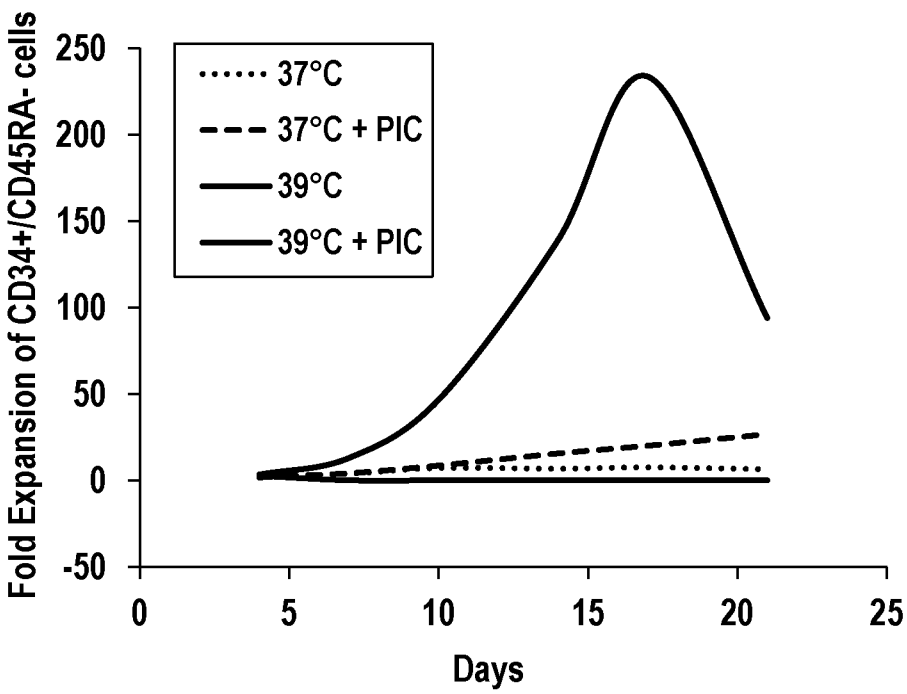

Fold Expansion of CD34+/CD45RA- cells
250
200
150
100
50
0
-50
0
5
10
15
20
25
Days
37°C
37°C + PIC
39°C
39°C + PIC

Figure 4

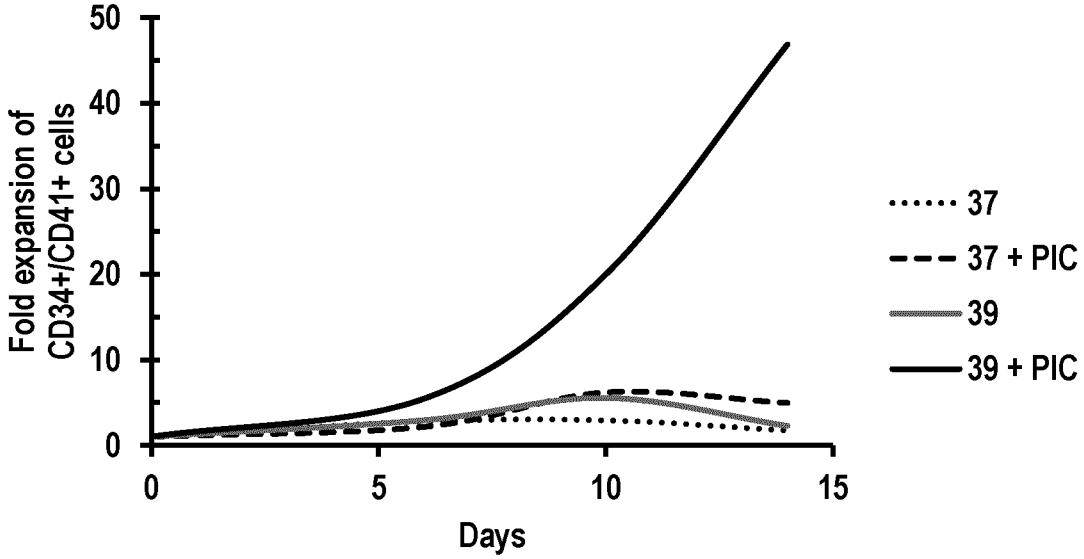


Figure 5

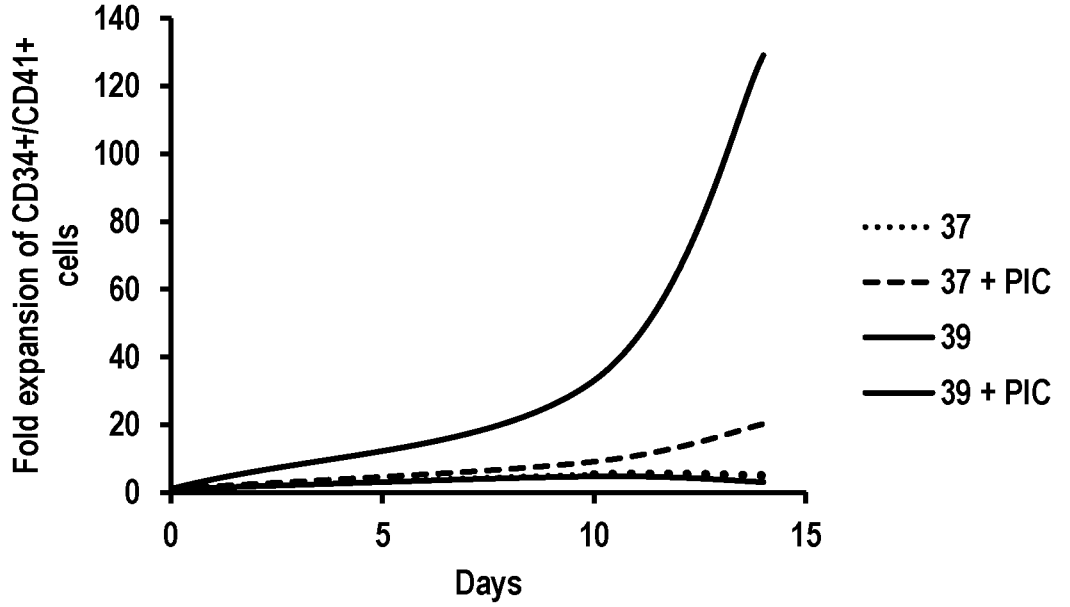


Figure 6

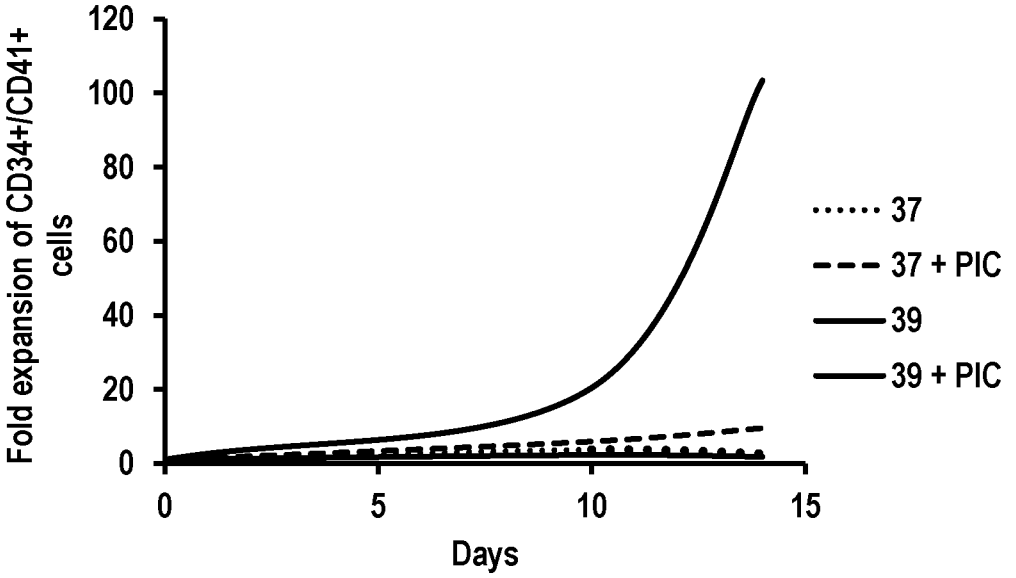


Figure 7

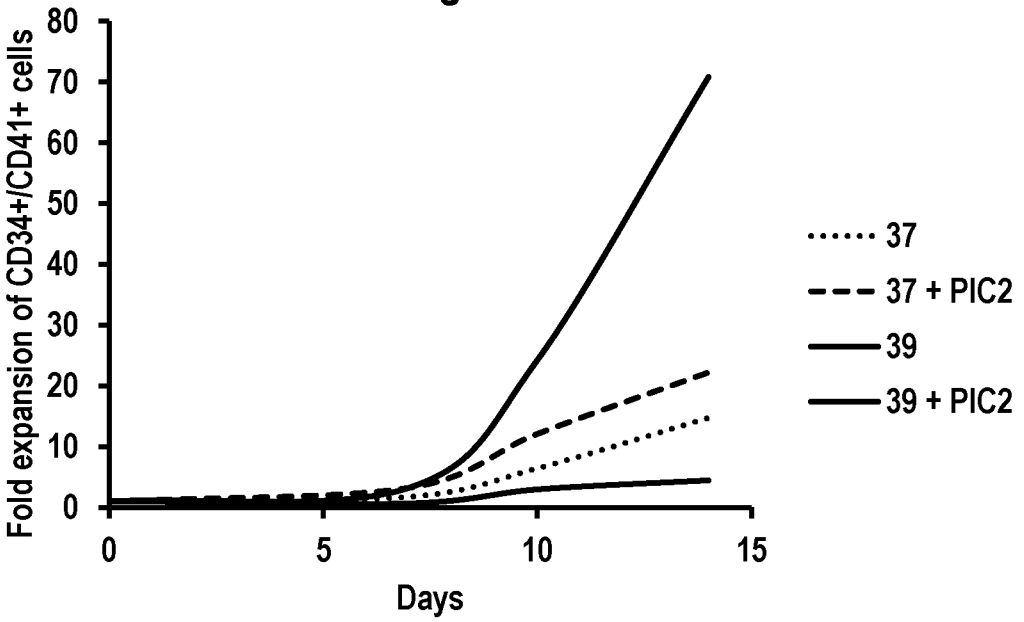


Figure 8

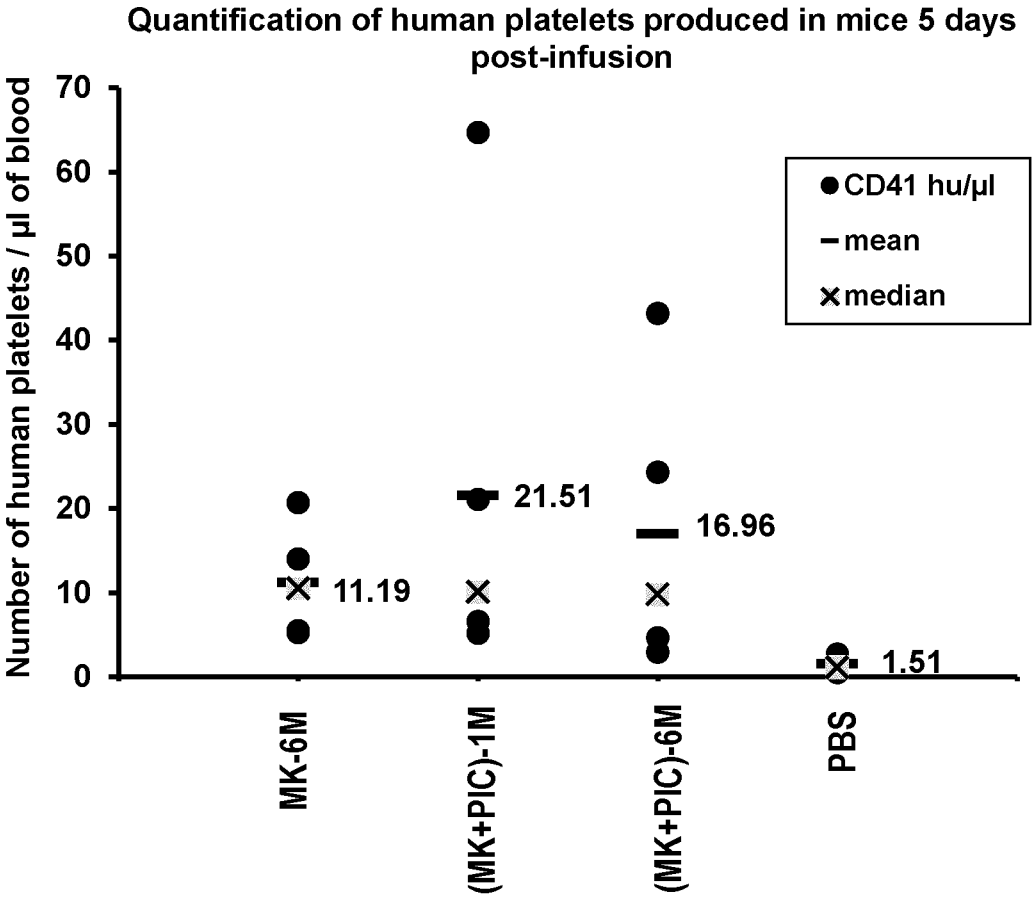

Quantification of human platelets produced in mice 5 days post-infusion
Number of human platelets / µl of blood
70
60
50
40
30
20
10
0
CD41 hu/µl
mean
median
11.19
21.51
16.96
1.51
MK-6M
(MK+PIC)-1M
(MK+PIC)-6M
PBS

Figure 9

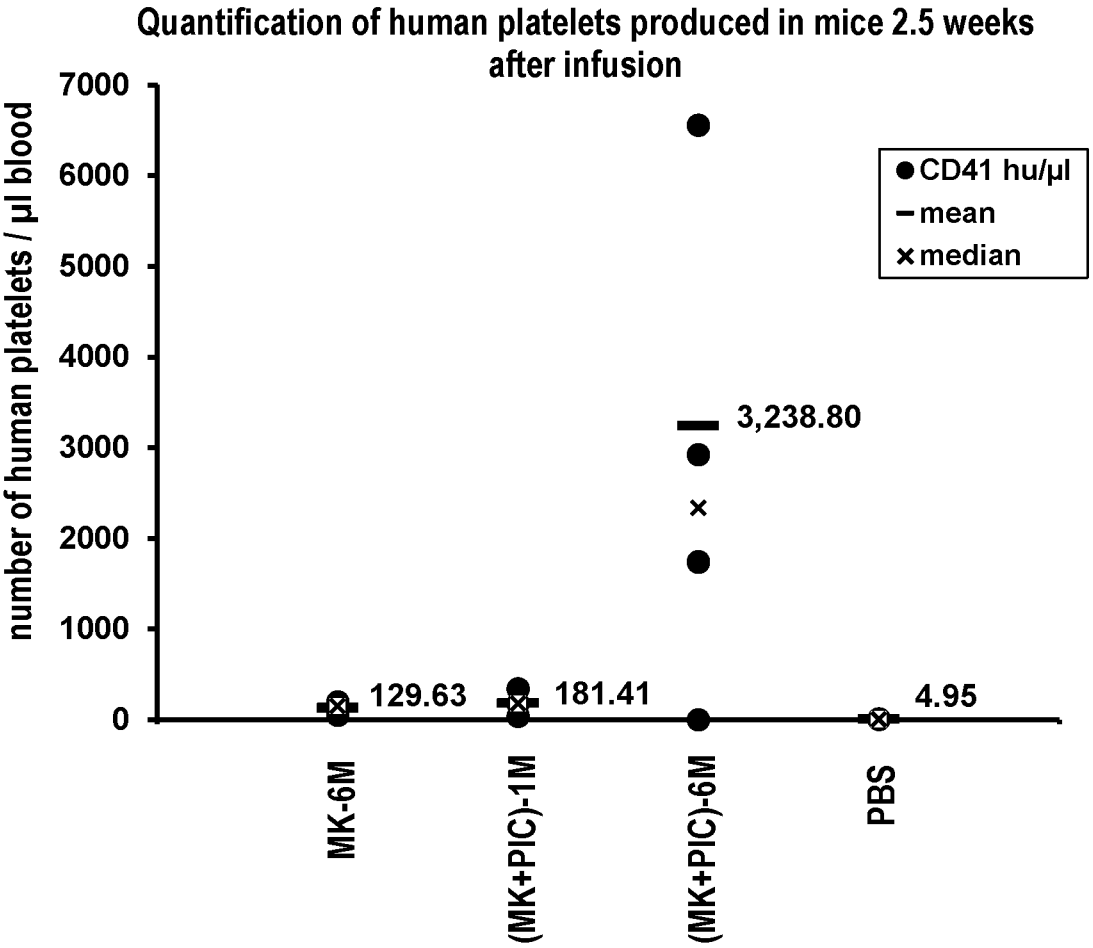

Quantification of human platelets produced in mice 2.5 weeks after infusion
number of human platelets / µl blood
7000
6000
5000
4000
3000
2000
1000
0
CD41 hu/µl
mean
median
3,238.80
129.63
181.41
4.95
MK-6M
(MK+PIC)-1M
(MK+PIC)-6M
PBS

Figure 10

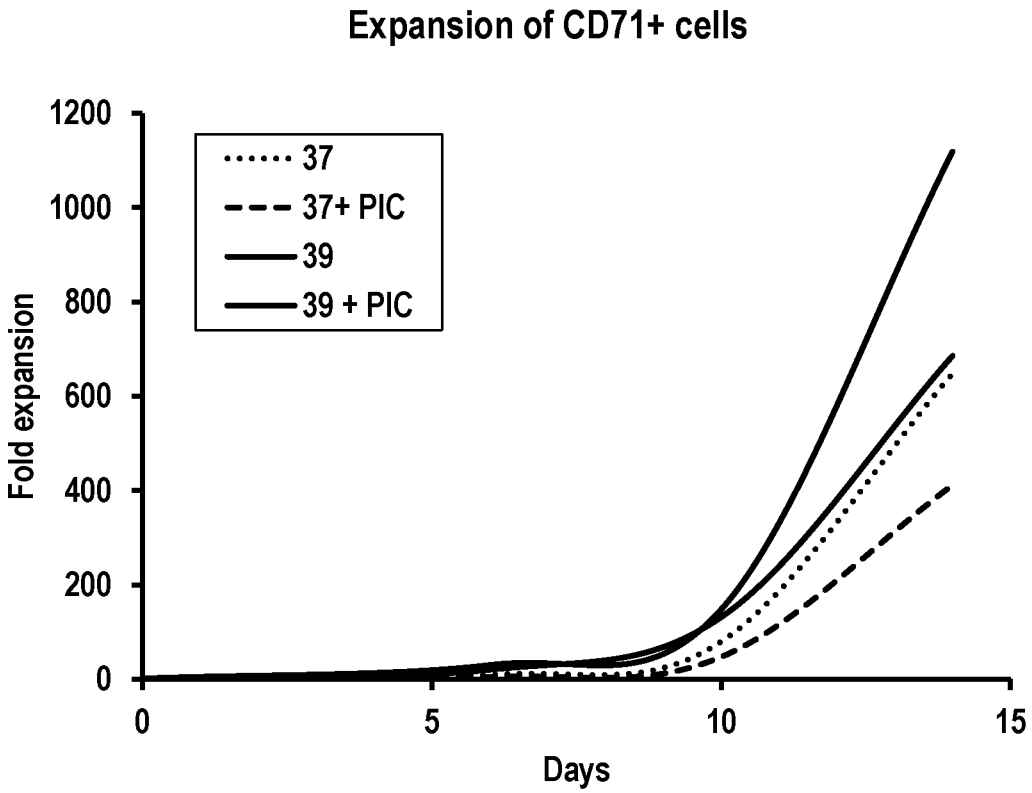

Expansion of CD71+ cells
Fold expansion
1200
1000
800
600
400
200
0
37
37+ PIC
39
39 + PIC
0
5
10
15
Days

Figure 11

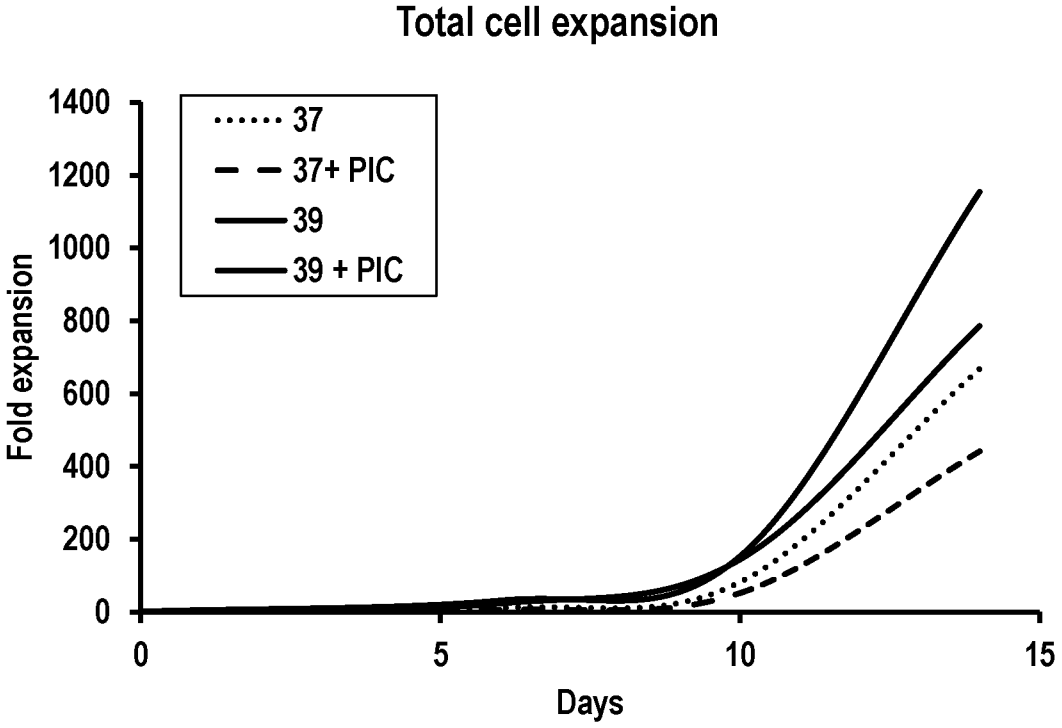

Total cell expansion
37
37+ PIC
39
39 + PIC
Fold expansion
1400
1200
1000
800
600
400
200
0
0
5
10
15
Days

Figure 12

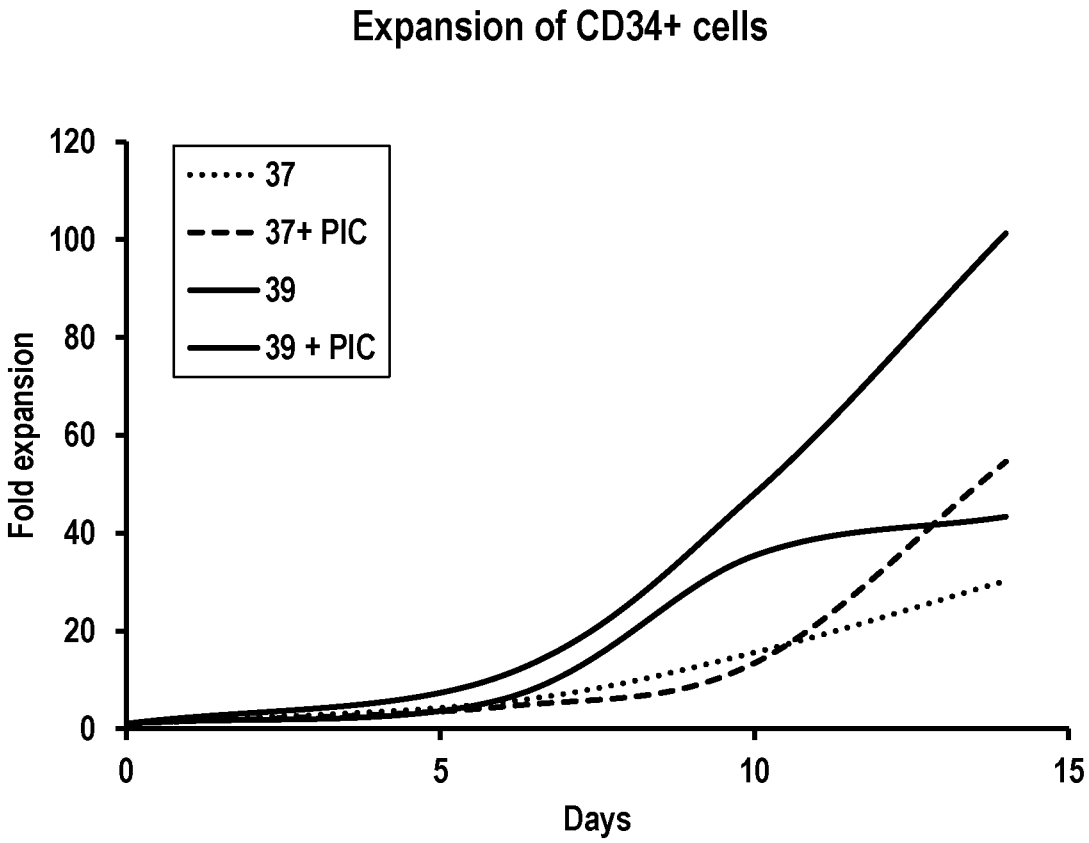

Expansion of CD34+ cells
37
37+ PIC
39
39 + PIC
Fold expansion
120
100
80
60
40
20
0
0
5
10
15
Days

Figure 13

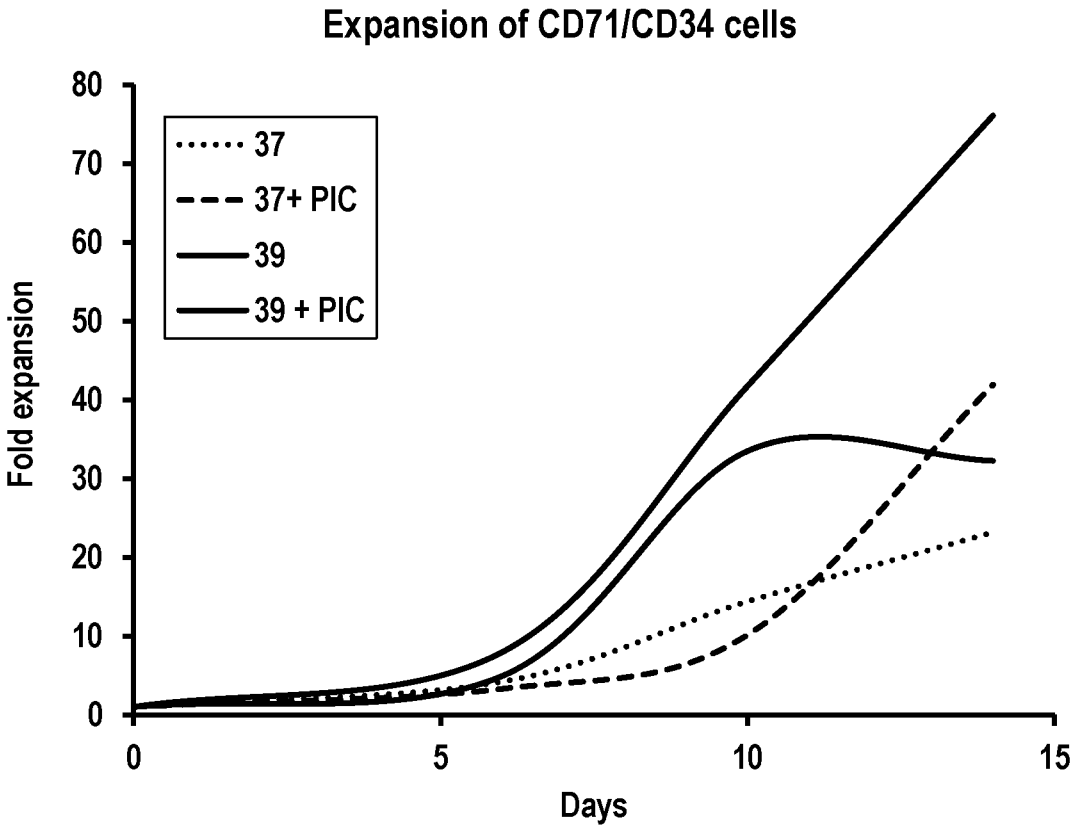
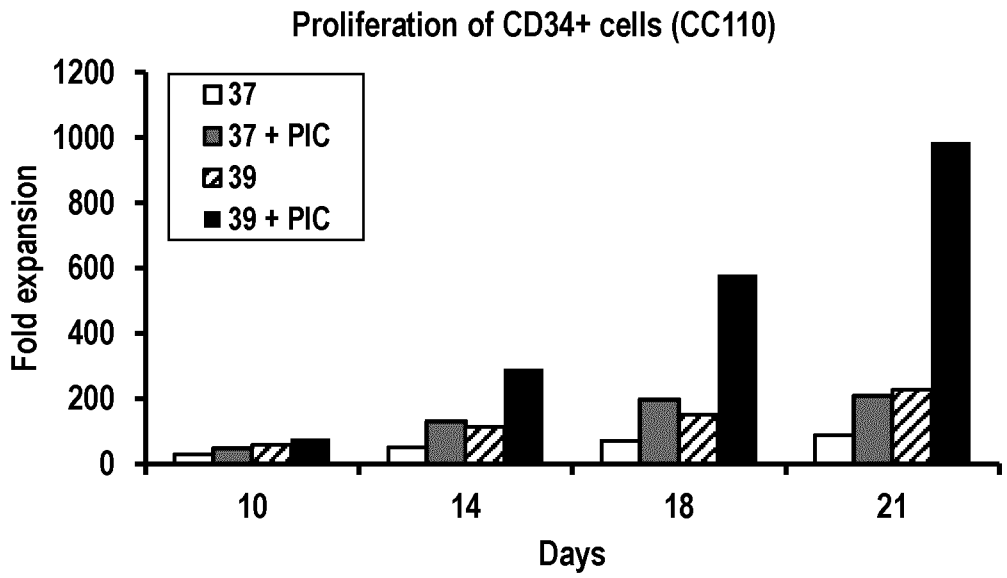

Expansion of CD71/CD34 cells
Fold expansion
Days
37
37+ PIC
39
39 + PIC
0
10
20
30
40
50
60
70
80
0
5
10
15

Figure 14

A


Proliferation of CD34+ cells (CC110)
Fold expansion
1200
1000
800
600
400
200
0
37
37 + PIC
39
39 + PIC
10
14
18
21
Days

B

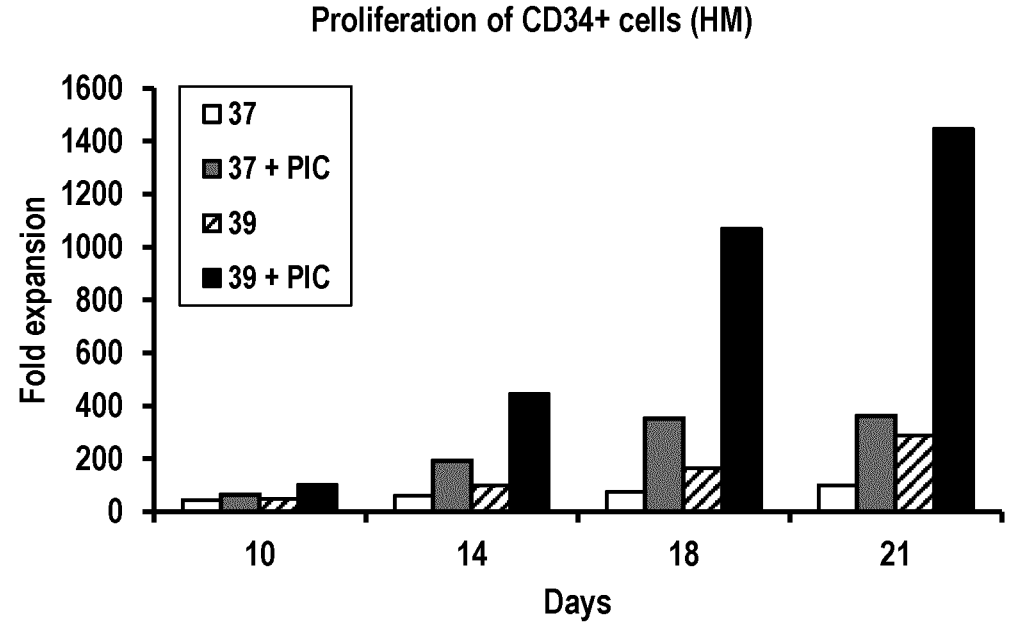
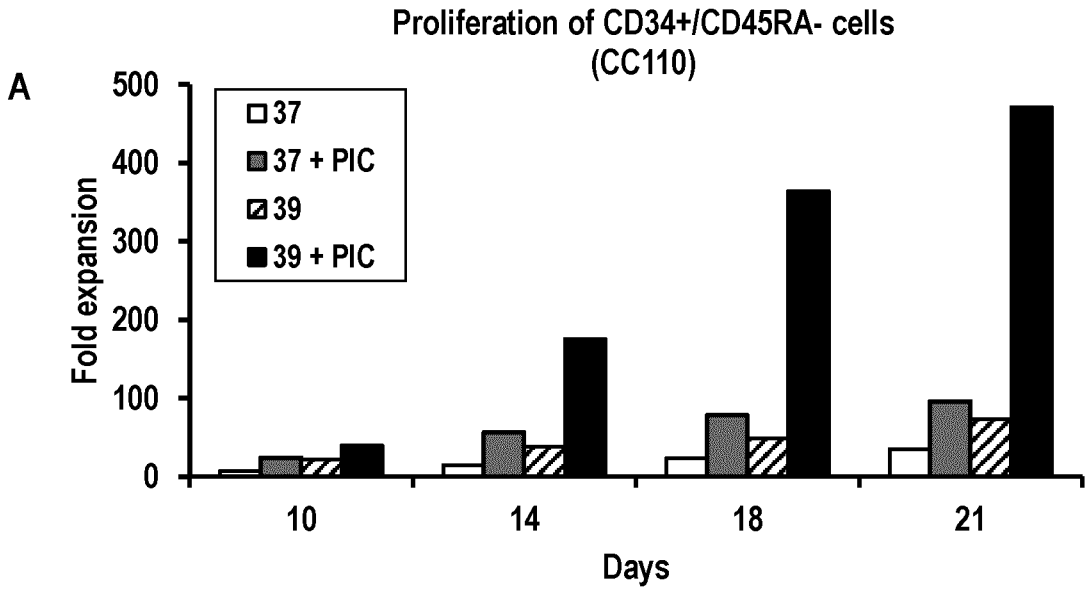

Proliferation of CD34+ cells (HM)
Fold expansion
1600
1400
1200
1000
800
600
400
200
0
37
37 + PIC
39
39 + PIC
10
14
18
21
Days

Figure 15


A
Proliferation of CD34+/CD45RA- cells
(CC110)
Fold expansion
500
400
300
200
100
0
37
37 + PIC
39
39 + PIC
10
14
18
21
Days

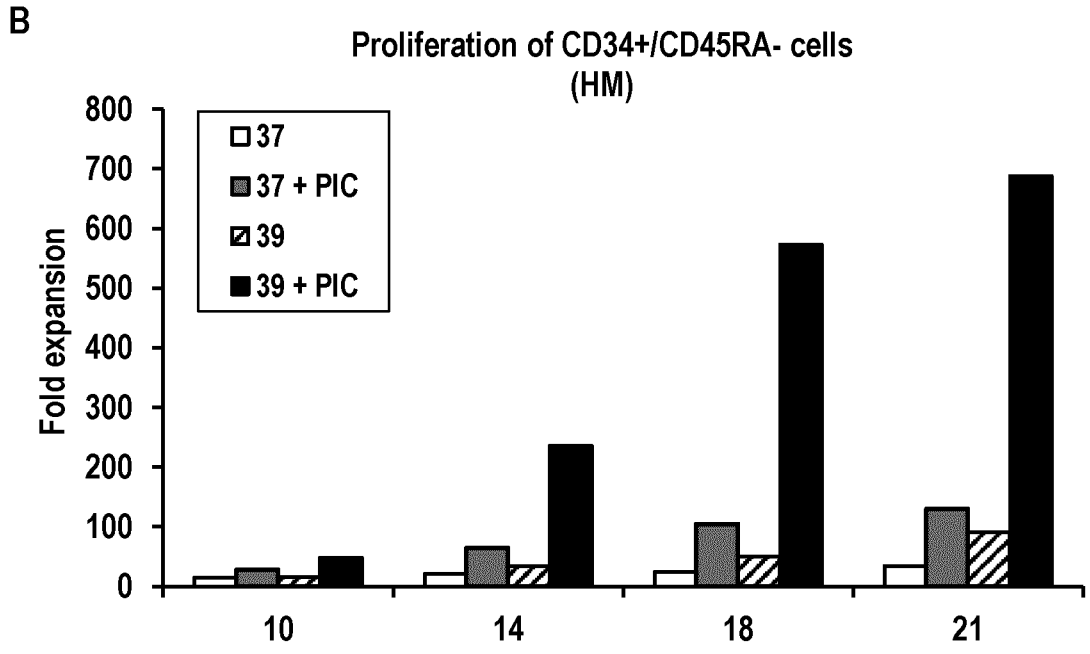

B
Proliferation of CD34+/CD45RA- cells
(HM)
Fold expansion
800
700
600
500
400
300
200
100
0
37
37 + PIC
39
39 + PIC
10
14
18
21

Figure 16

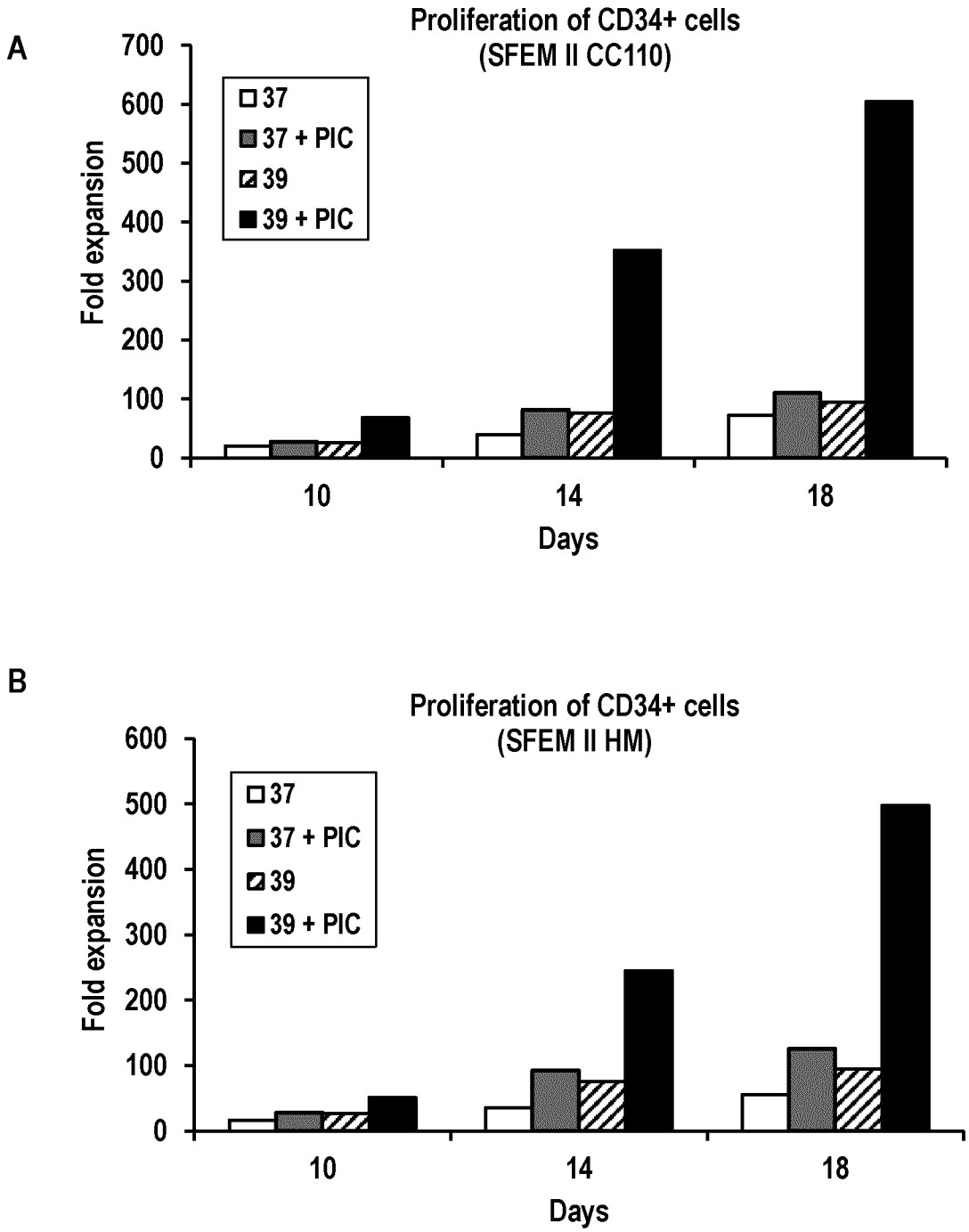
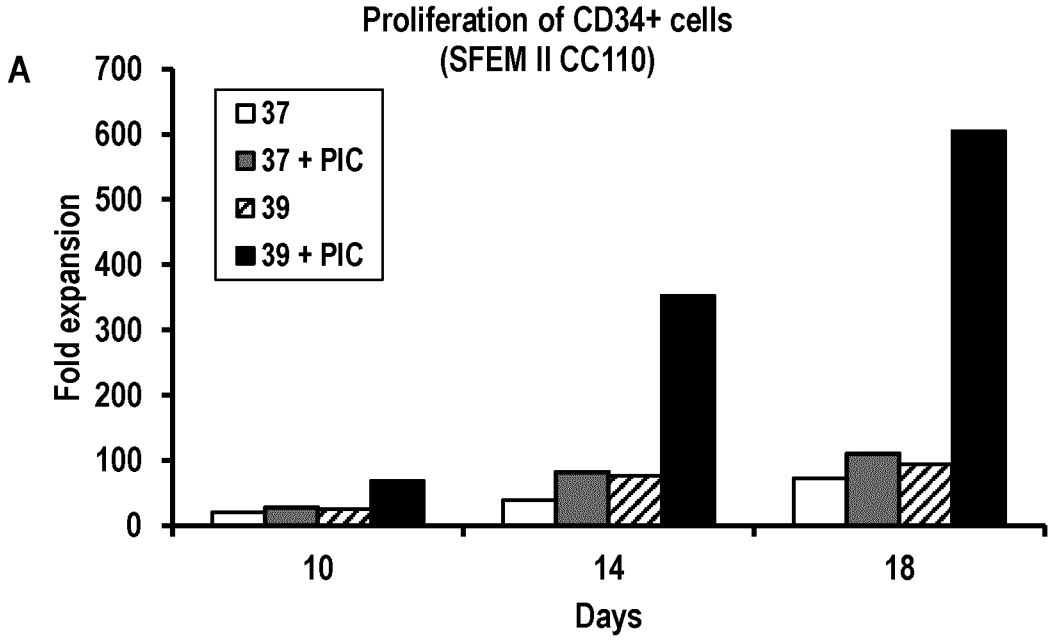

A
Proliferation of CD34+ cells
(SFEM II CC110)
Fold expansion
700
600
500
400
300
200
100
0
37
37 + PIC
39
39 + PIC
10
14
18
Days
B
Proliferation of CD34+ cells
(SFEM II HM)
Fold expansion
600
500
400
300
200
100
0
37
37 + PIC
39
39 + PIC
10
14
18
Days

Figure 17


A
Proliferation of CD34+ cells
(SFEM II CC110)
Fold expansion
700
600
500
400
300
200
100
0
37
37 + PIC
39
39 + PIC
10
14
18
Days

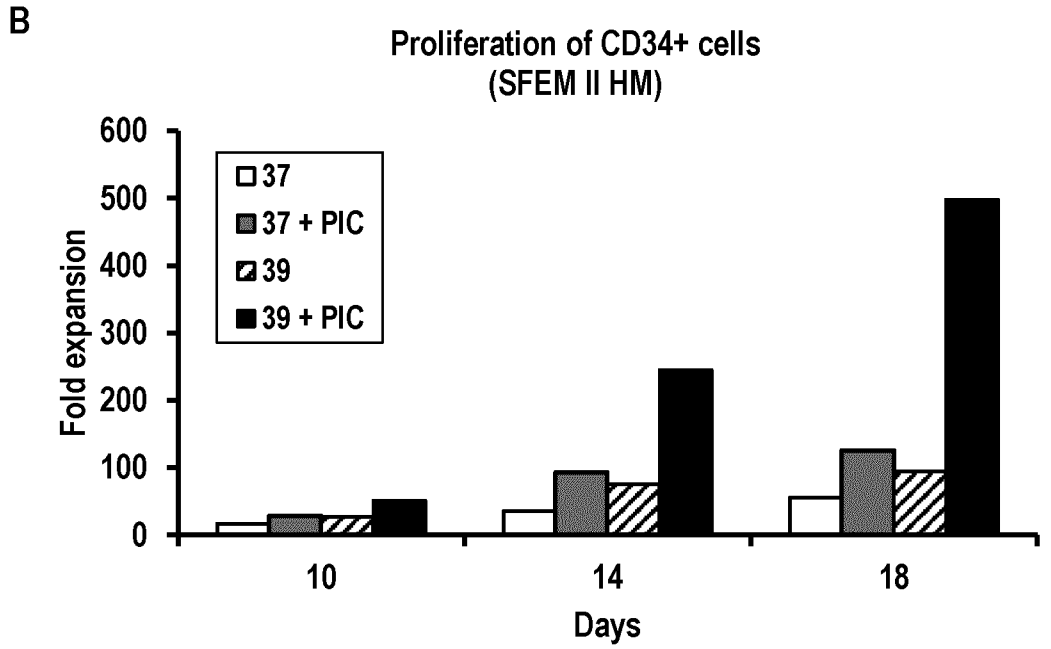
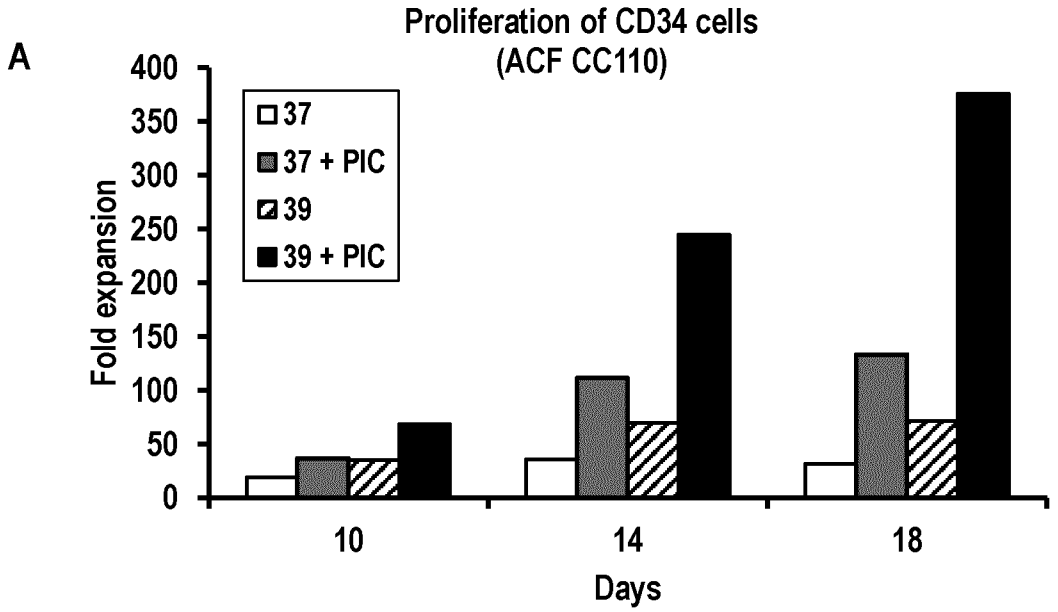

B
Proliferation of CD34+ cells
(SFEM II HM)
Fold expansion
600
500
400
300
200
100
0
37
37 + PIC
39
39 + PIC
10
14
18
Days

Figure 18


A
Proliferation of CD34 cells
(ACF CC110)
Fold expansion
400
350
300
250
200
150
100
50
0
37
37 + PIC
39
39 + PIC
10
14
18
Days

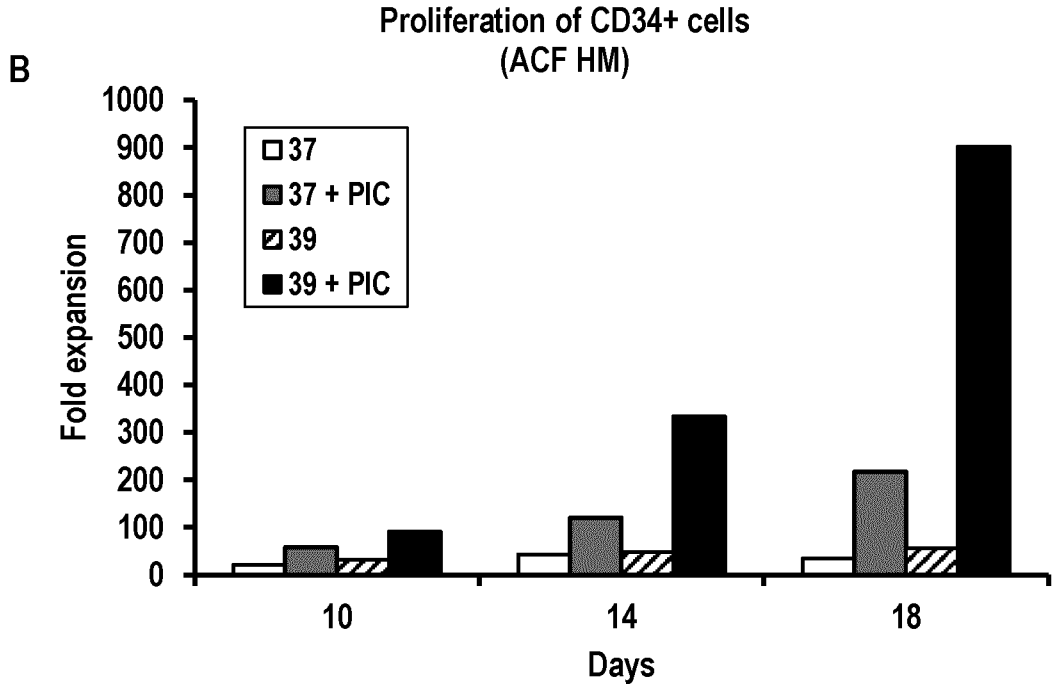

B
Proliferation of CD34+ cells
(ACF HM)
Fold expansion
1000
900
800
700
600
500
400
300
200
100
0
37
37 + PIC
39
39 + PIC
10
14
18
Days

Figure 18

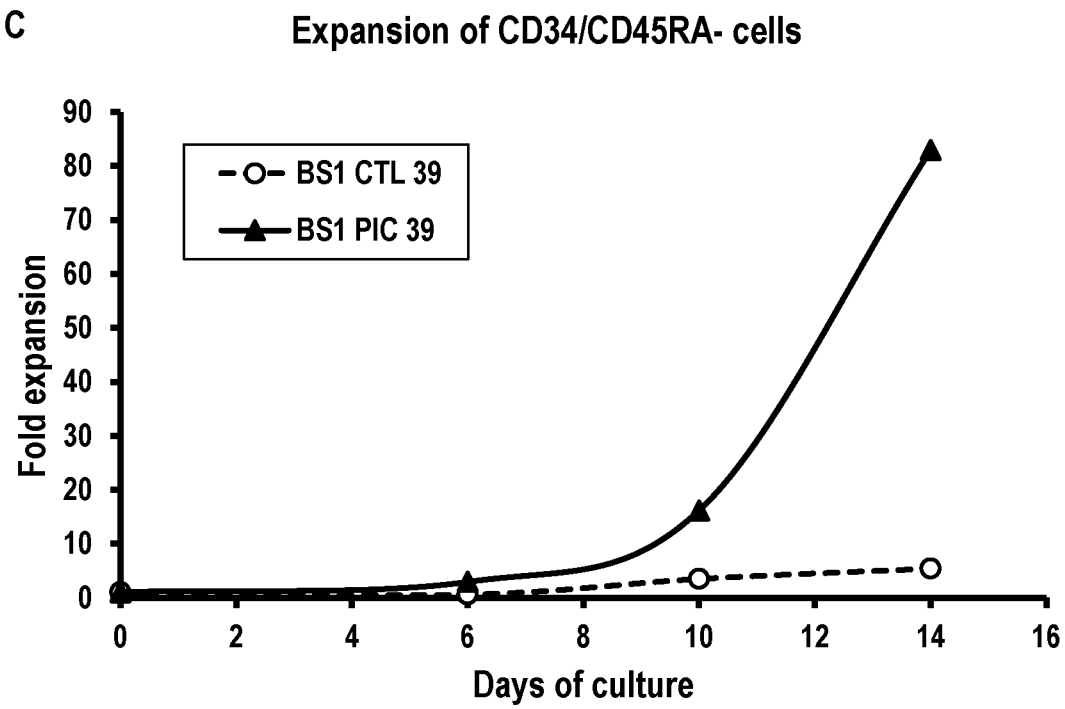

C
Expansion of CD34/CD45RA- cells
Fold expansion
90
80
70
60
50
40
30
20
10
0
BS1 CTL 39
BS1 PIC 39
0
2
4
6
8
10
12
14
16
Days of culture

Figure 19

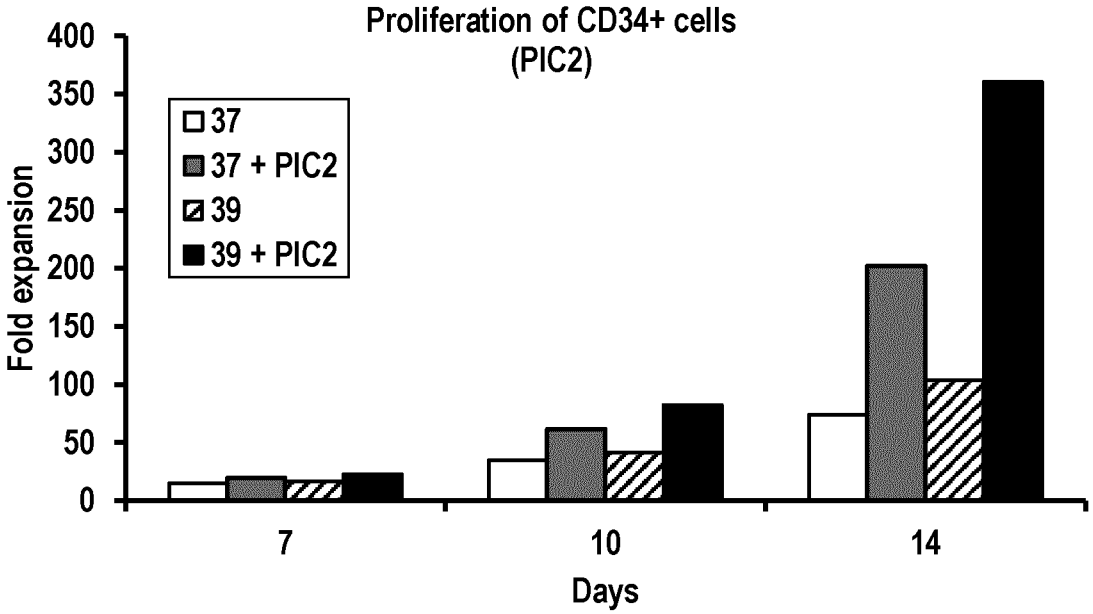


Figure 20

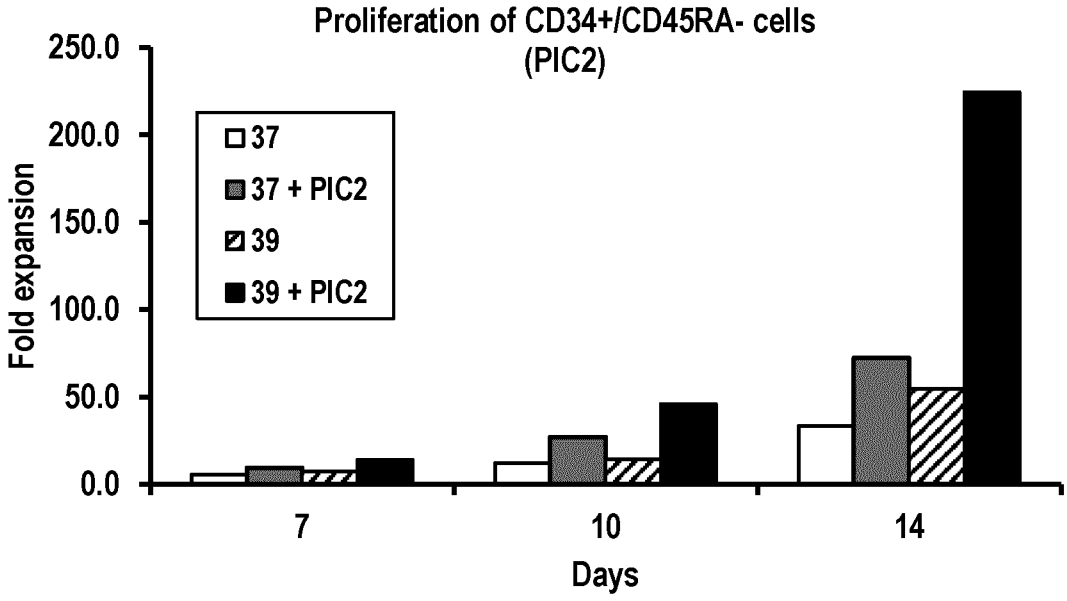


Figure 21

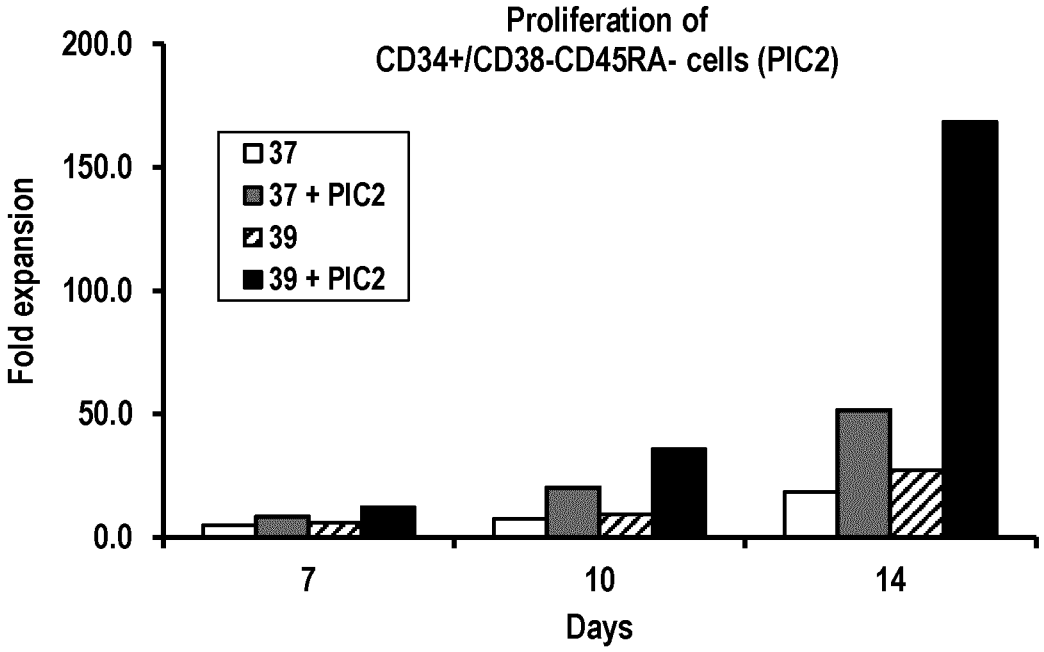


Figure 22

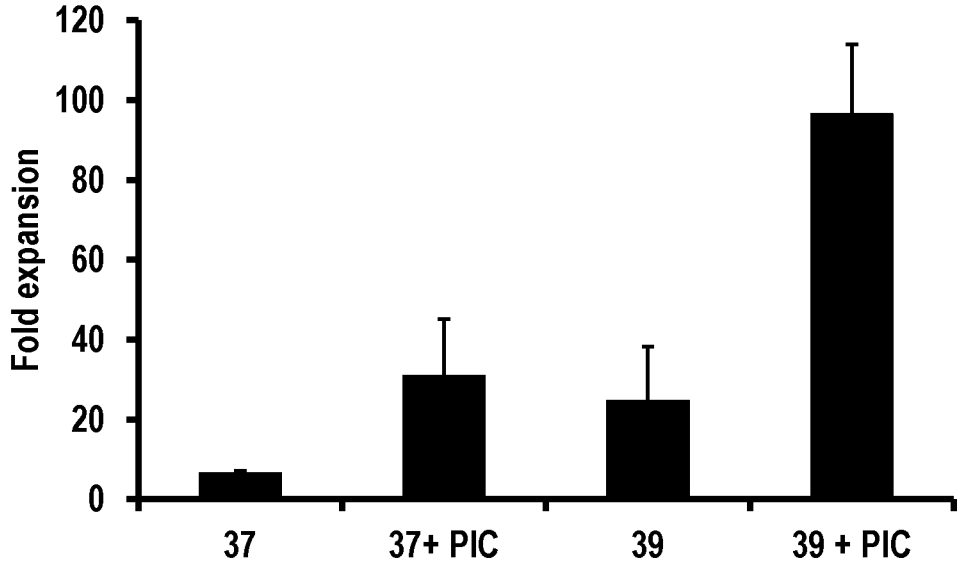


Figure 23

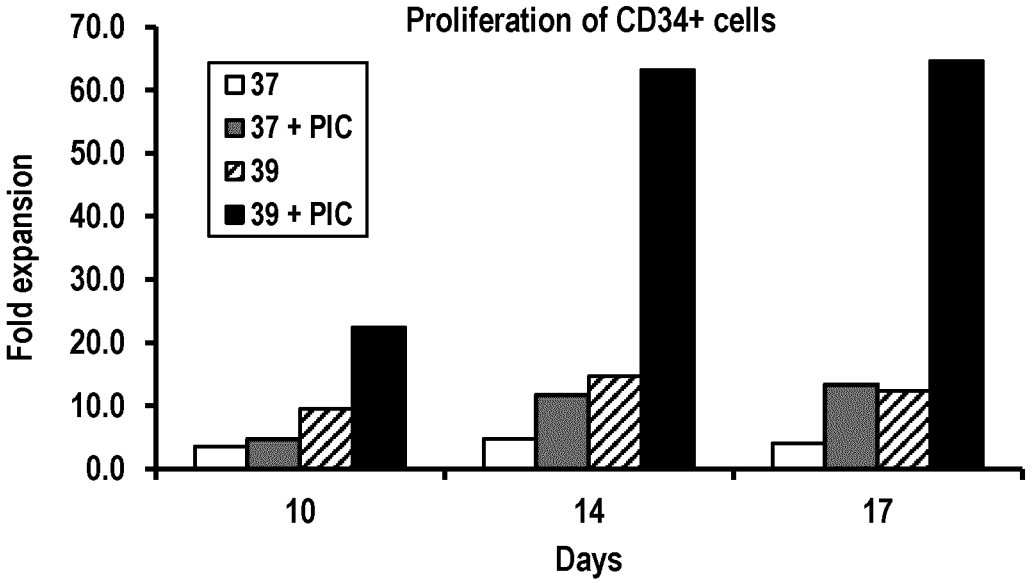


Figure 24

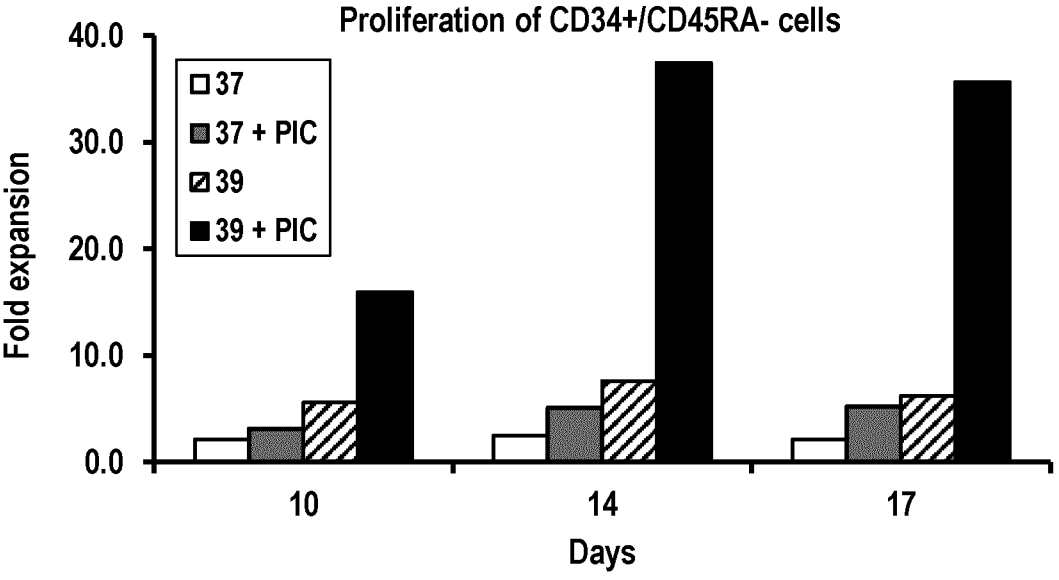


Figure 25

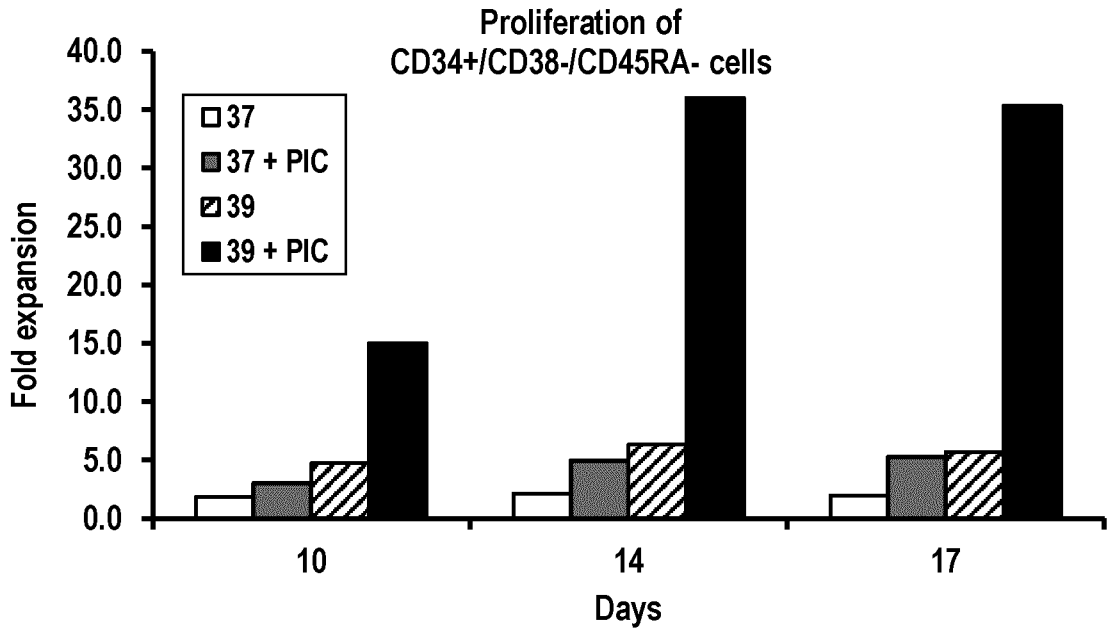


Figure 26

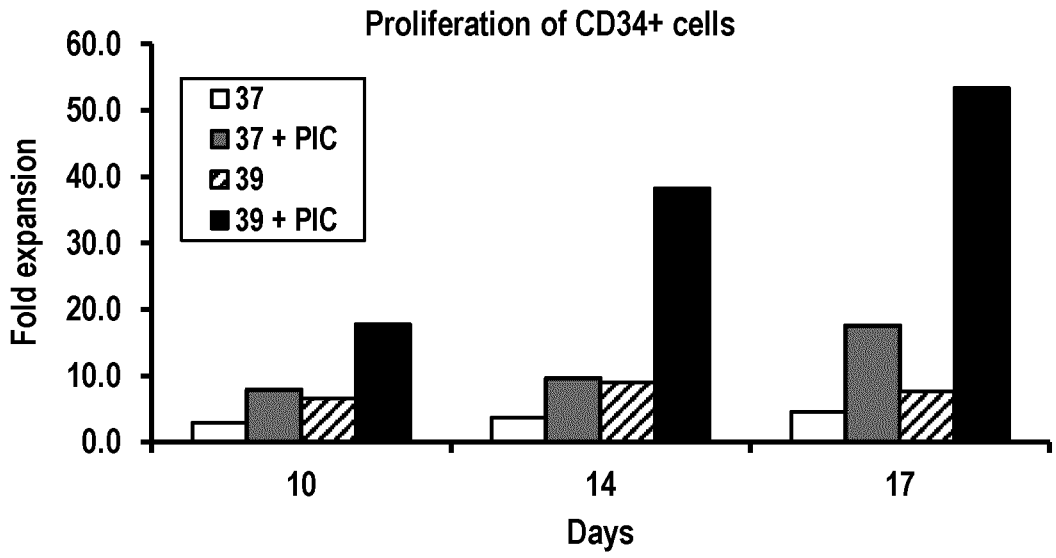


Figure 27

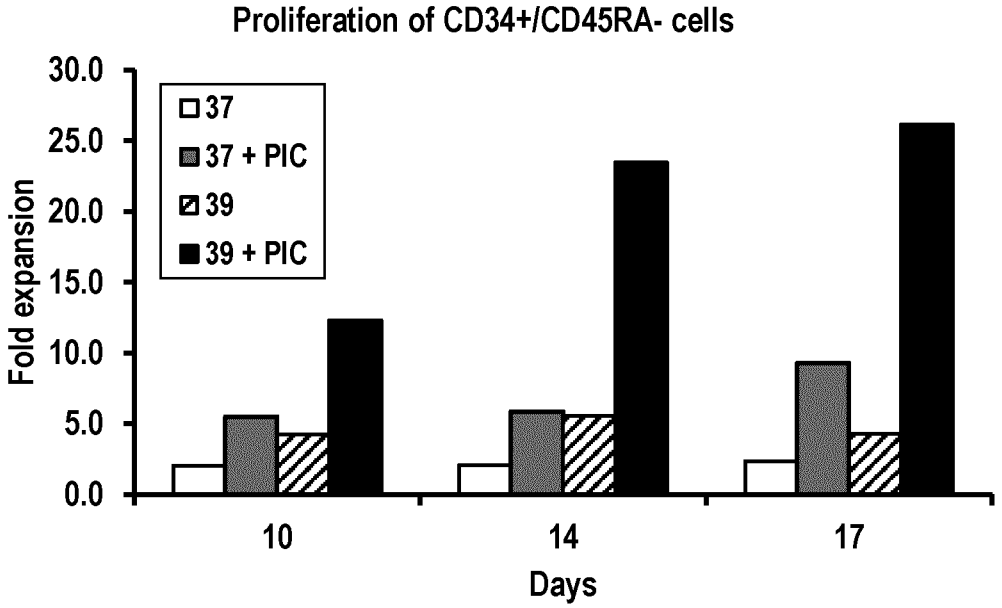


Figure 28

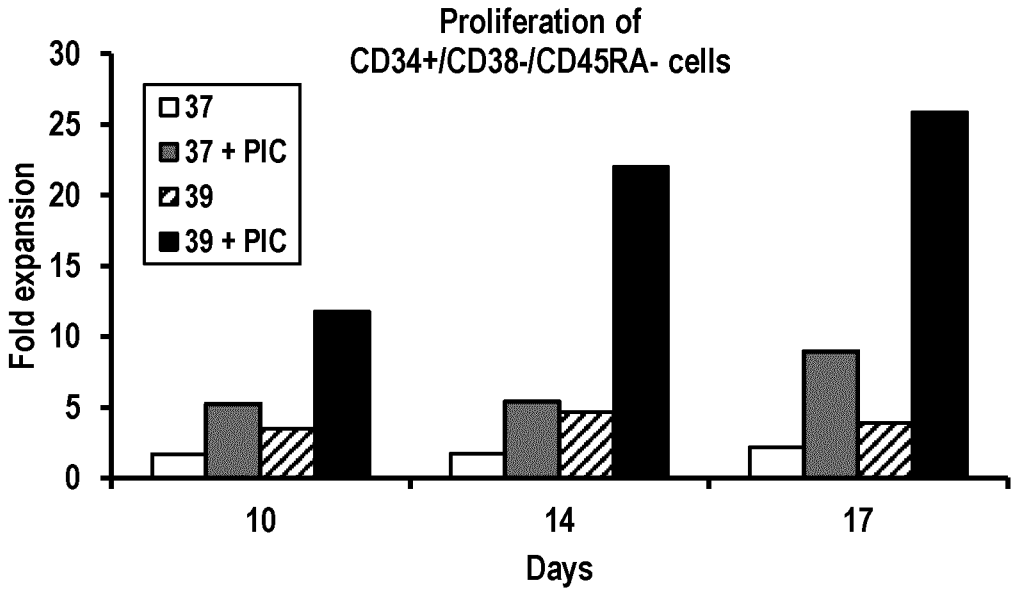
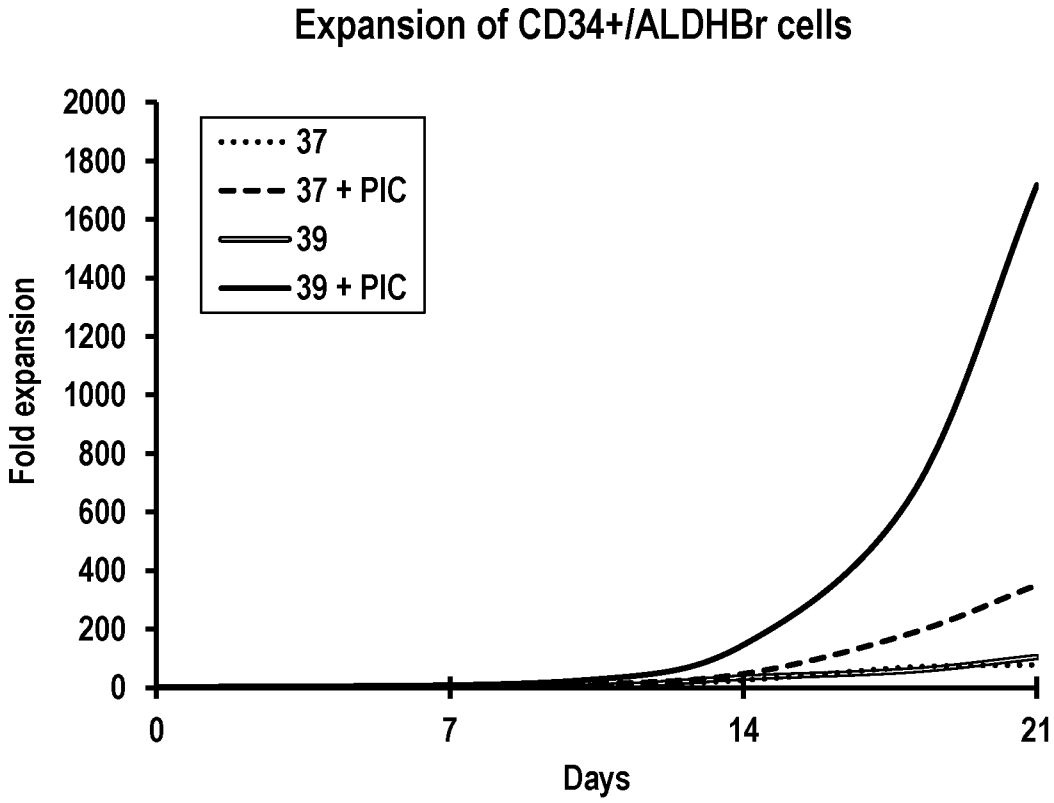


Figure 29


Expansion of CD34+/ALDHBr cells
Fold expansion
2000
1800
1600
1400
1200
1000
800
600
400
200
0
37
37 + PIC
39
39 + PIC
0
7
14
21
Days