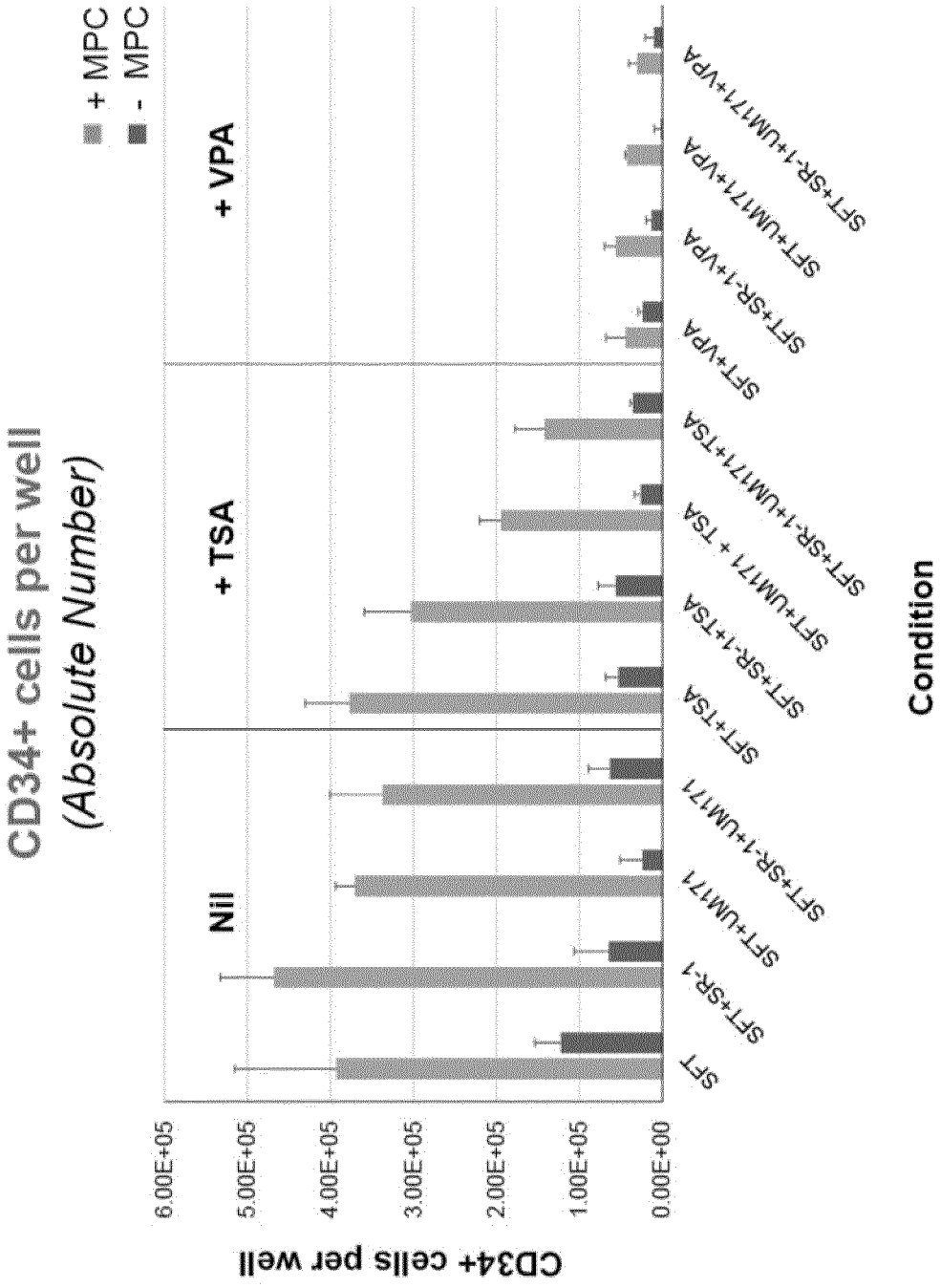

CD34+ cells per well
(Absolute Number)
+ MPC
- MPC
Nil
+ TSA
+ VPA
6.00E+05
5.00E+05
4.00E+05
3.00E+05
2.00E+05
1.00E+05
0.00E+00
CD34+ cells per well
SFT
SFT+SR-1
SFT+UM171
SFT+SR-1+UM171
SFT+TSA
SFT+SR-1+TSA
SFT+UM171 + TSA
SFT+SR-1+UM171+TSA
SFT+VPA
SFT+SR-1+VPA
SFT+UM171+VPA
SFT+SR-1+UM171+VPA
Condition

FIGURE 1

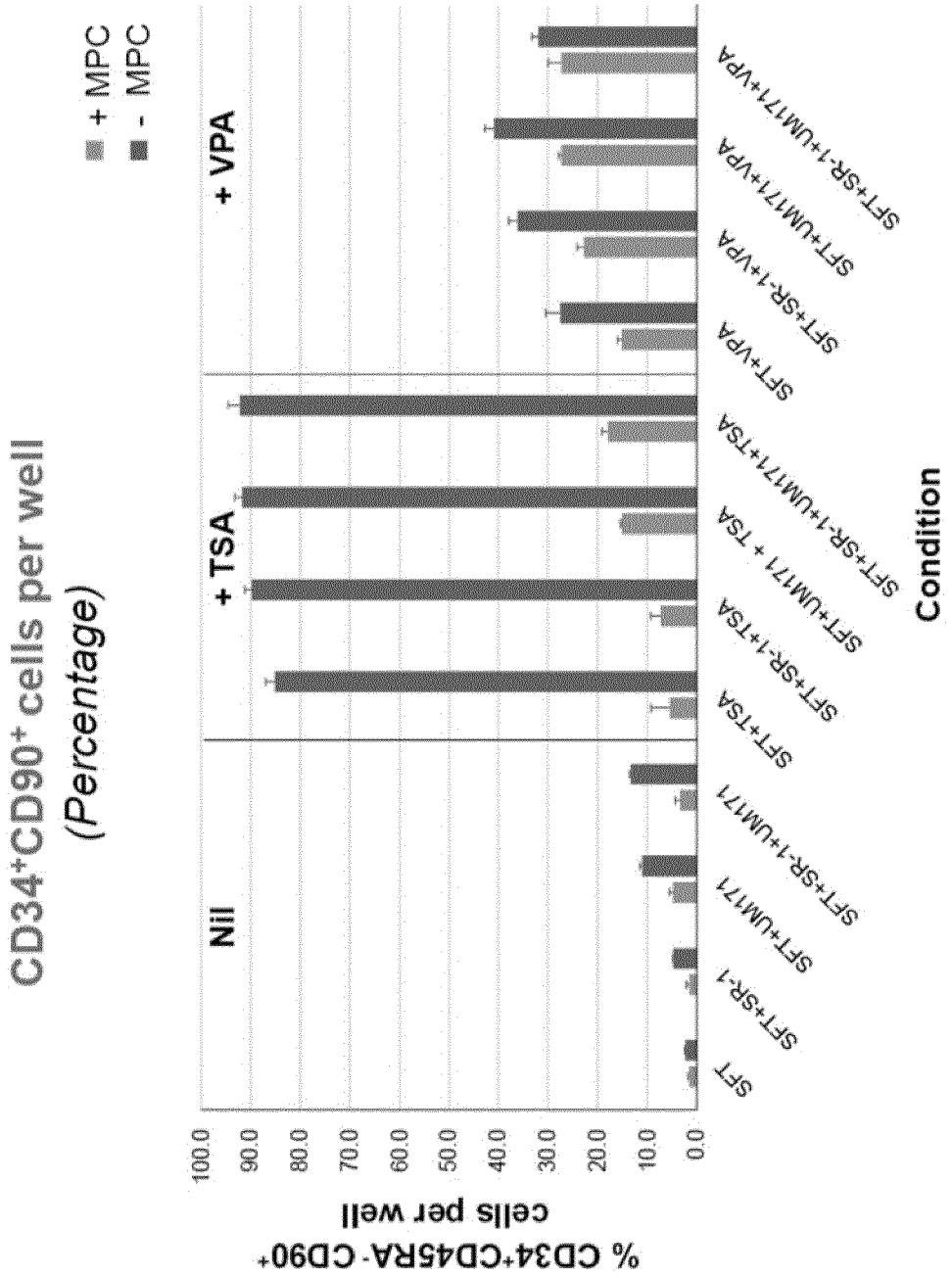

CD34+CD90+ cells per well
(Percentage)
+ MPC
- MPC
Nil
+ TSA
+ VPA
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
% CD34+CD45RA- CD90+
cells per well
SFT
SFT+SR-1
SFT+UM171
SFT+SR-1+UM171
SFT+TSA
SFT+SR-1+TSA
SFT+UM171 + TSA
SFT+SR-1+UM171+TSA
SFT+VPA
SFT+SR-1+VPA
SFT+UM171+VPA
SFT+SR-1+UM171+VPA
Condition

FIGURE 2

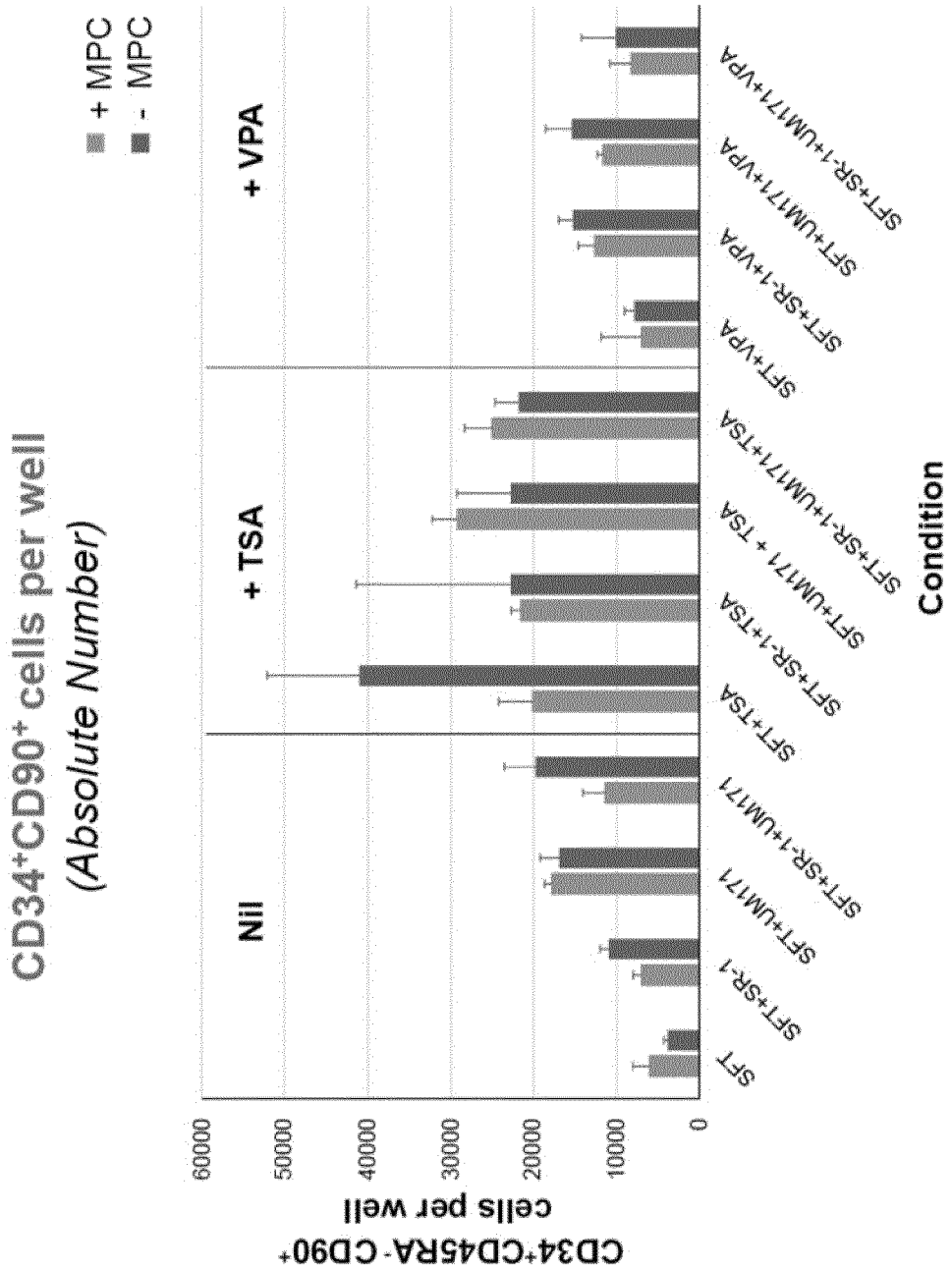

CD34+CD90+ cells per well
(Absolute Number)
+ MPC
- MPC
Nil
+ TSA
+ VPA
CD34+CD45RA- CD90+
cells per well
60000
50000
40000
30000
20000
10000
0
SFT
SFT+SR-1
SFT+UM171
SFT+SR-1+UM171
SFT+TSA
SFT+SR-1+TSA
SFT+UM171 + TSA
SFT+SR-1+UM171+TSA
SFT+VPA
SFT+SR-1+VPA
SFT+UM171+VPA
SFT+SR-1+UM171+VPA
Condition

FIGURE 3

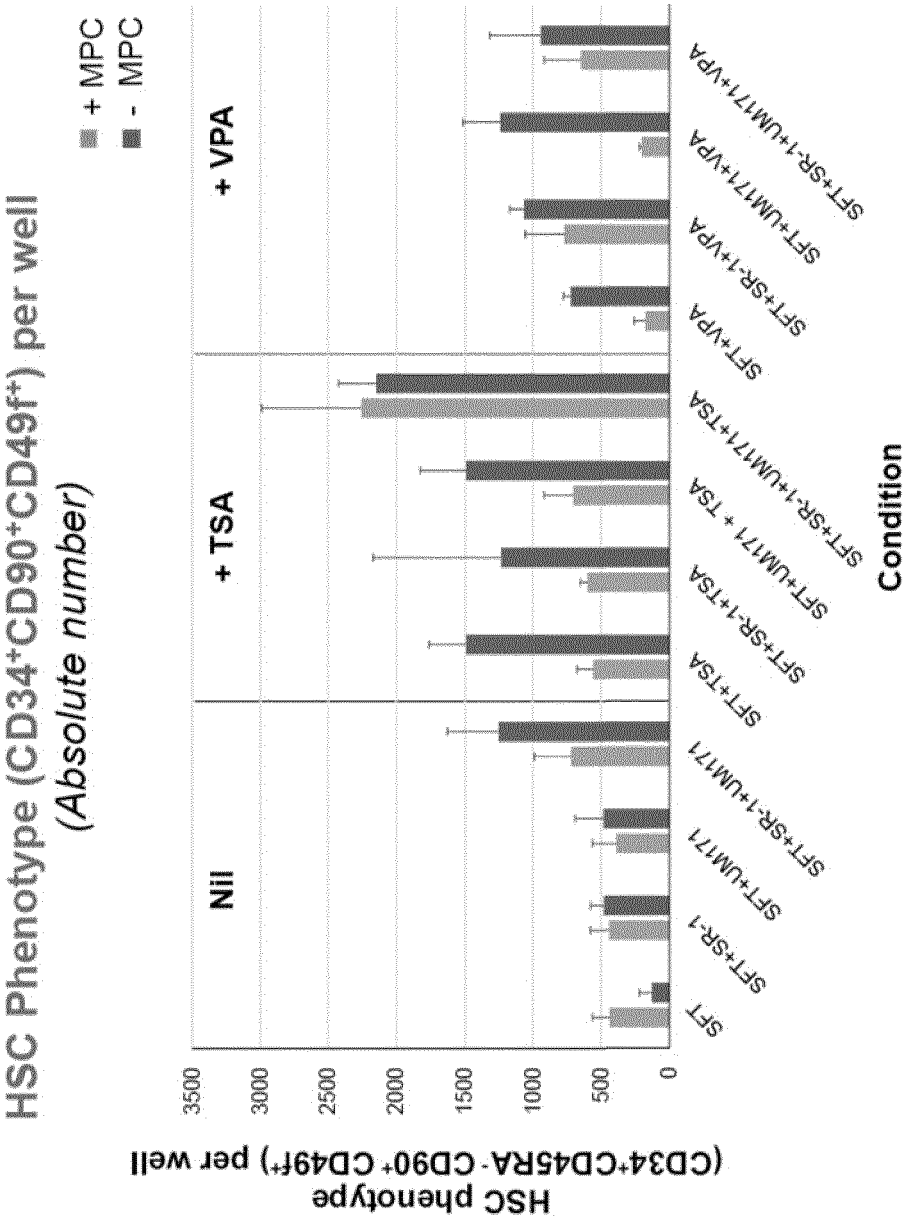

HSC Phenotype (CD34+CD90+CD49f+) per well
(Absolute number)
+ MPC
- MPC
Nil
+ TSA
+ VPA
3500
3000
2500
2000
1500
1000
500
0
HSC phenotype
(CD34+CD45RA- CD90+ CD49f+) per well
SFT
SFT+SR-1
SFT+UM171
SFT+SR-1+UM171
SFT+TSA
SFT+SR-1+TSA
SFT+UM171 + TSA
SFT+SR-1+UM171+TSA
SFT+VPA
SFT+SR-1+VPA
SFT+UM171+VPA
SFT+SR-1+UM171+VPA
Condition

FIGURE 4

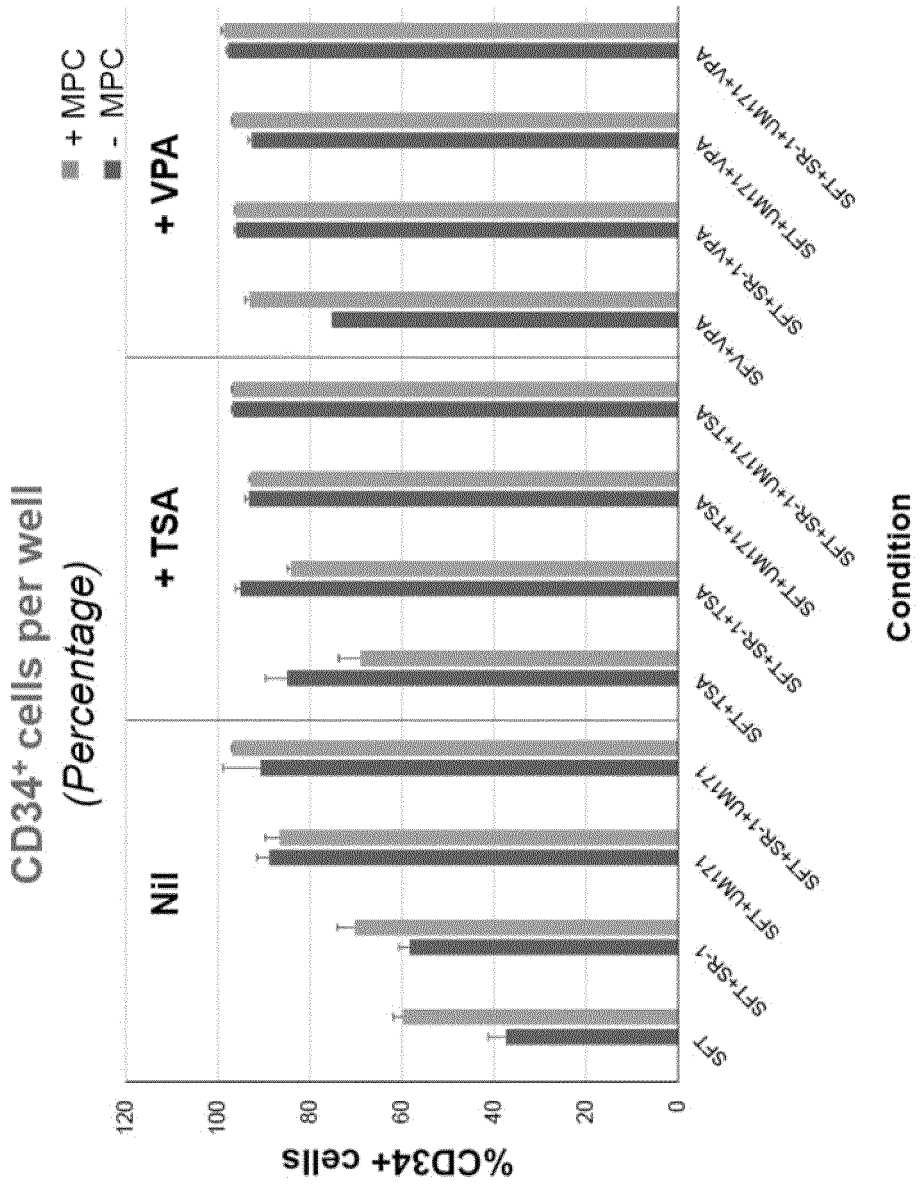

CD34+ cells per well
(Percentage)
+ MPC
- MPC
Nil
+ TSA
+ VPA
%CD34+ cells
120
100
80
60
40
20
0
SFT
SFT+SR-1
SFT+UM171
SFT+SR-1+UM171
SFT+TSA
SFT+SR-1+TSA
SFT+UM171+TSA
SFT+SR-1+UM171+TSA
SFV+VPA
SFT+SR-1+VPA
SFT+UM171+VPA
SFT+SR-1+UM171+VPA
Condition

FIGURE 5

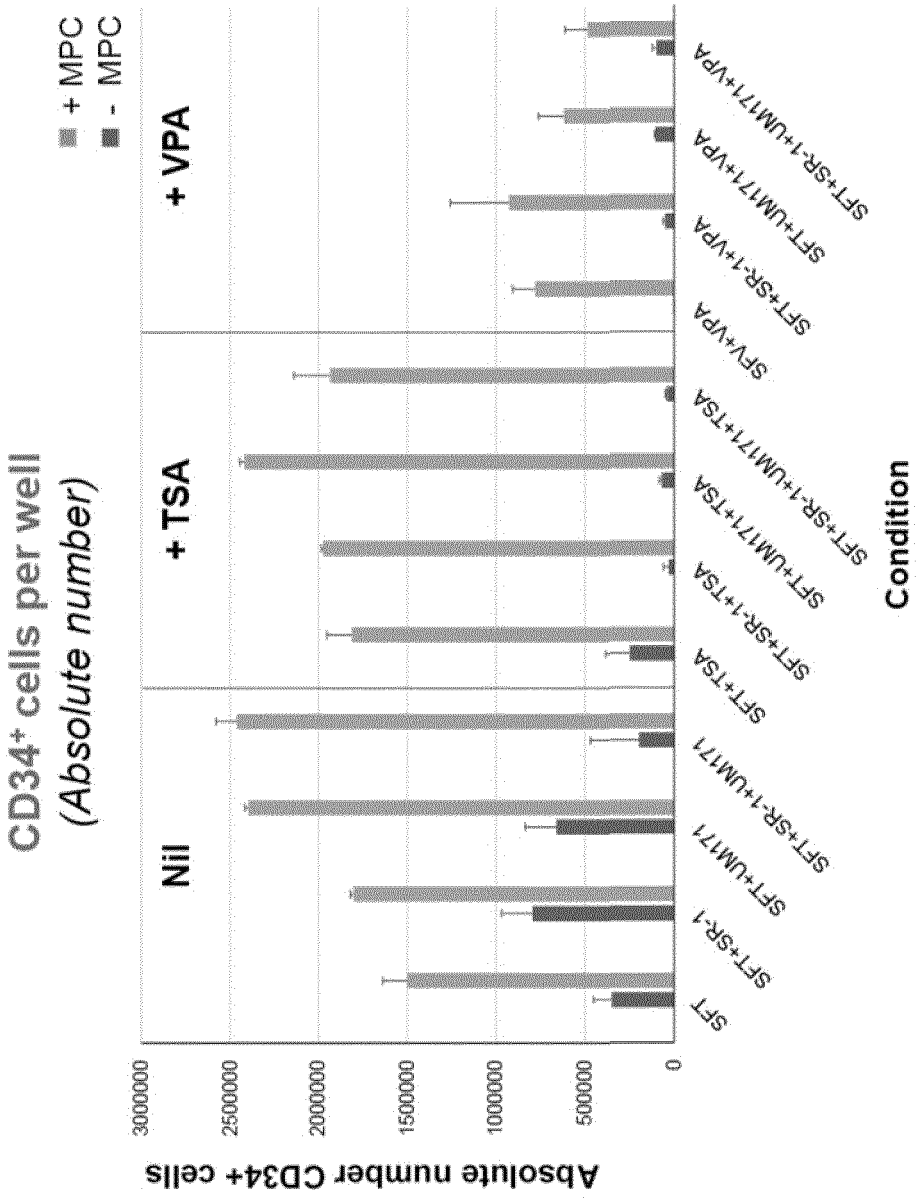

CD34+ cells per well
(Absolute number)
+ MPC
- MPC
Nil
+ TSA
+ VPA
Absolute number CD34+ cells
3000000
2500000
2000000
1500000
1000000
500000
0
SFT
SFT+SR-1
SFT+UM171
SFT+SR-1+UM171
SFT+TSA
SFT+SR-1+TSA
SFT+UM171+TSA
SFT+SR-1+UM171+TSA
SFV+VPA
SFT+SR-1+VPA
SFT+UM171+VPA
SFT+SR-1+UM171+VPA
Condition

FIGURE 6

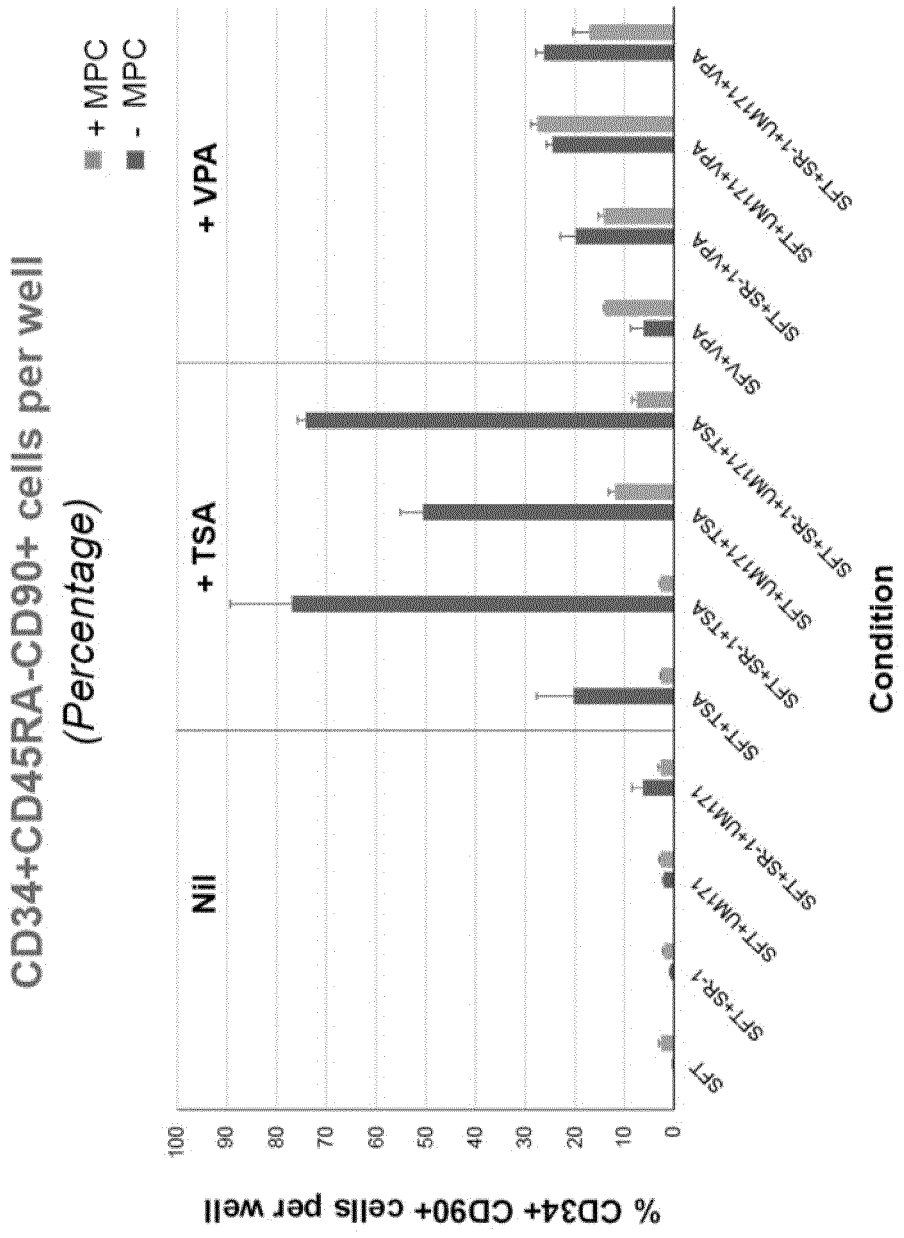

CD34+CD45RA-CD90+ cells per well
(Percentage)
+ MPC
- MPC
Nil
+ TSA
+ VPA
% CD34+ CD90+ cells per well
0
10
20
30
40
50
60
70
80
90
100
SFT
SFT+SR-1
SFT+UM171
SFT+SR-1+UM171
SFT+TSA
SFT+SR-1+TSA
SFT+UM171+TSA
SFT+SR-1+UM171+TSA
SFV+VPA
SFT+SR-1+VPA
SFT+UM171+VPA
SFT+SR-1+UM171+VPA
Condition

FIGURE 7

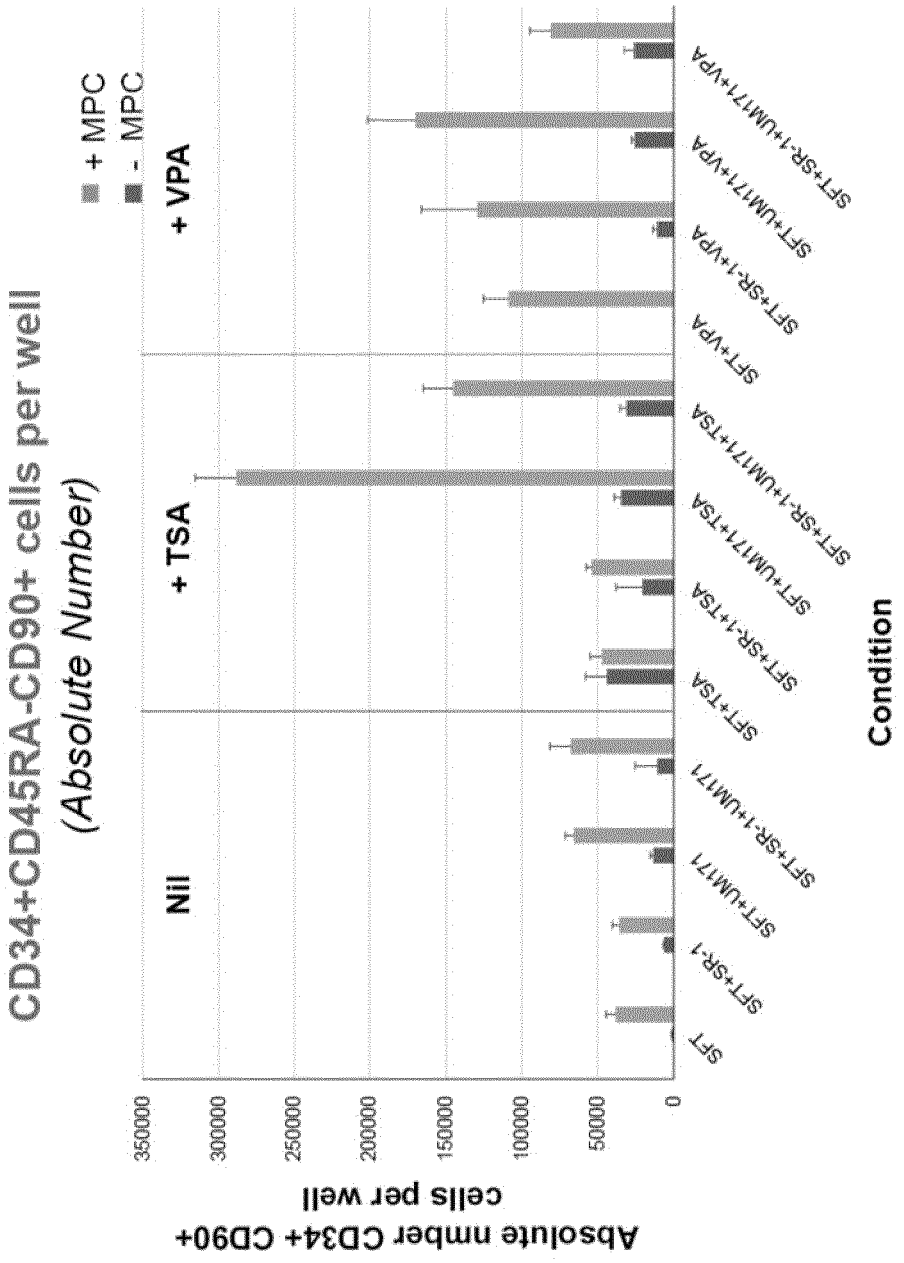

CD34+CD45RA-CD90+ cells per well
(Absolute Number)
+ MPC
- MPC
Nil
+ TSA
+ VPA
Absolute number CD34+ CD90+ cells per well
350000
300000
250000
200000
150000
100000
50000
0
SFT
SFT+SR-1
SFT+UM171
SFT+SR-1+UM171
SFT+TSA
SFT+SR-1+TSA
SFT+UM171+TSA
SFT+SR-1+UM171+TSA
SFT+VPA
SFT+SR-1+VPA
SFT+UM171+VPA
SFT+SR-1+UM171+VPA
Condition

FIGURE 8

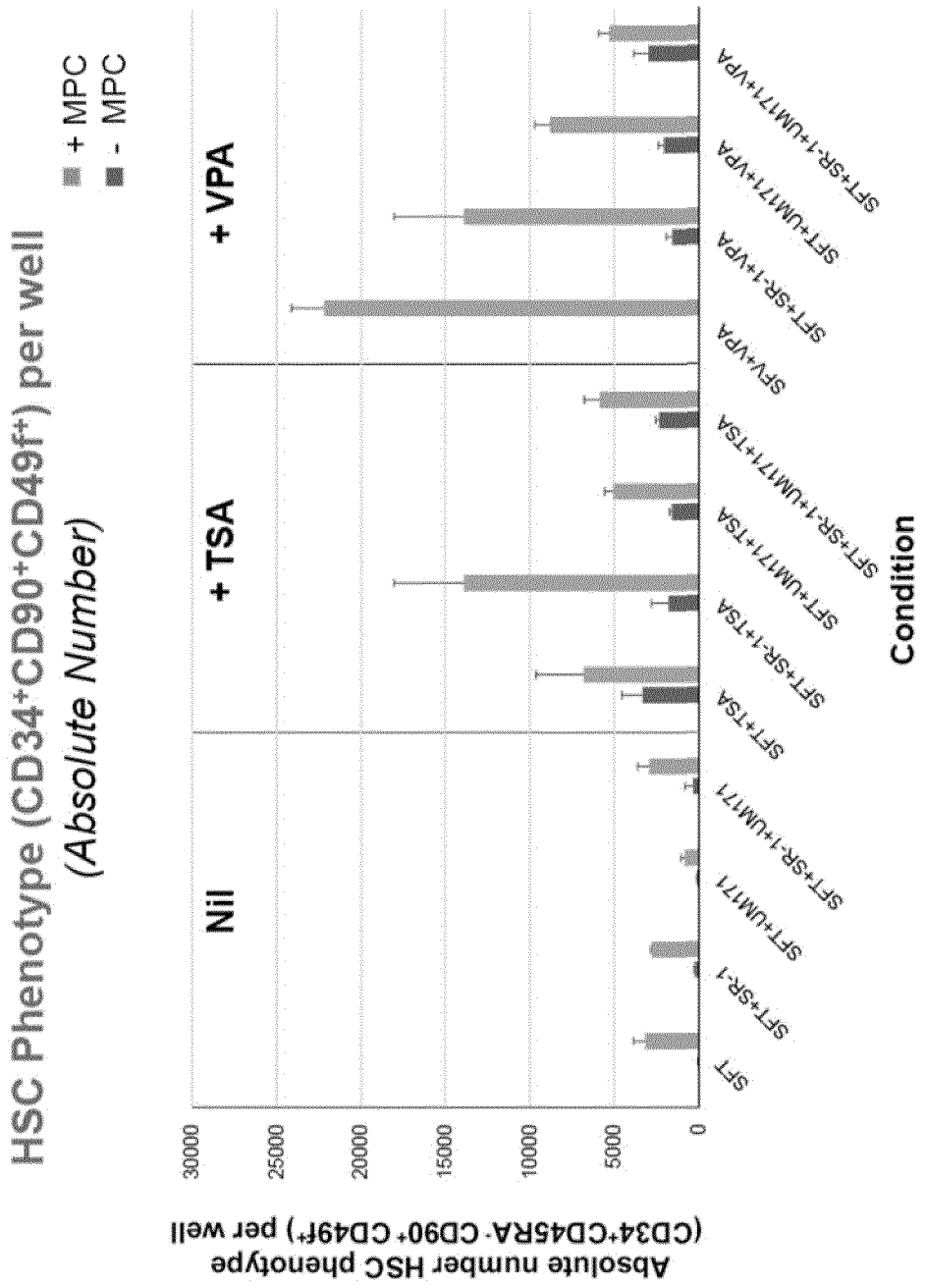
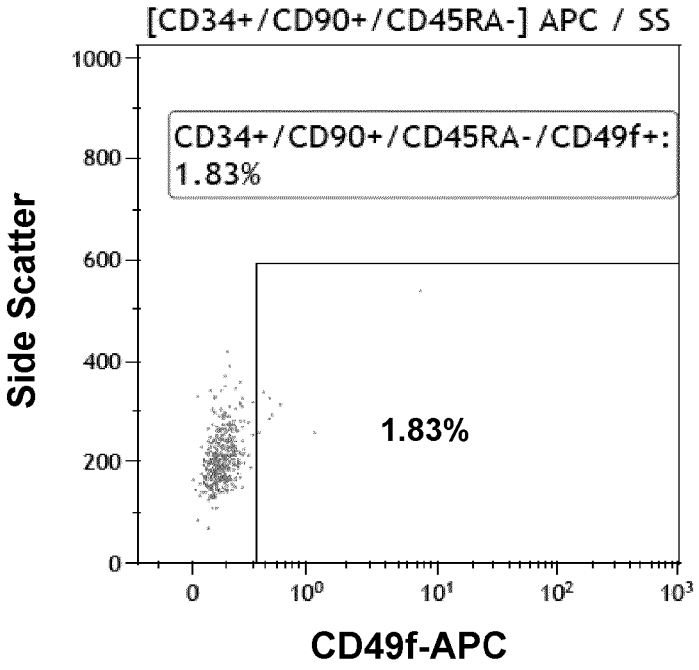

HSC Phenotype (CD34+CD90+CD49f+) per well
(Absolute Number)
+ MPC
- MPC
Nil
+ TSA
+ VPA
30000
25000
20000
15000
10000
5000
0
SFT
SFT+SR-1
SFT+UM171
SFT+SR-1+UM171
SFT+TSA
SFT+SR-1+TSA
SFT+UM171+TSA
SFT+SR-1+UM171+TSA
SFV+VPA
SFT+SR-1+VPA
SFT+UM171+VPA
SFT+SR-1+UM171+VPA
Condition
Absolute number HSC phenotype
(CD34+CD45RA- CD90+ CD49F+) per well

FIGURE 9

Culture *without* MPC

SFT



SFT + TSA

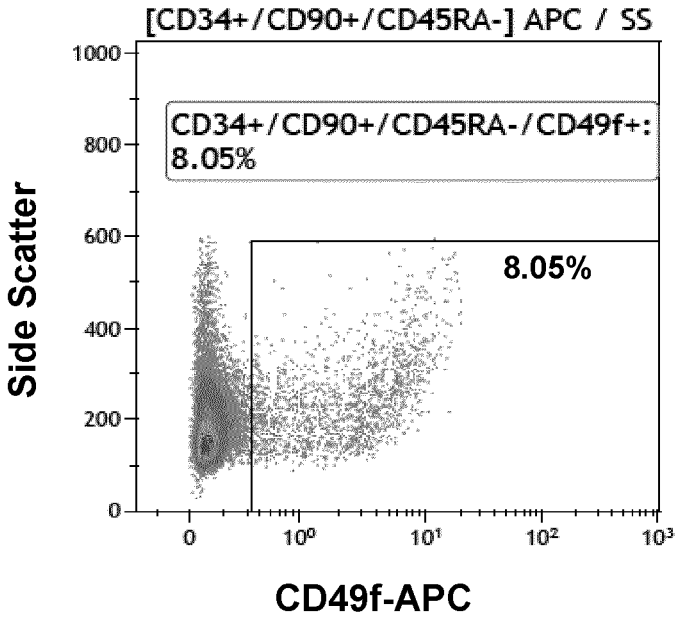


FIGURE 10

Culture *without* MPC

SFT + VPA

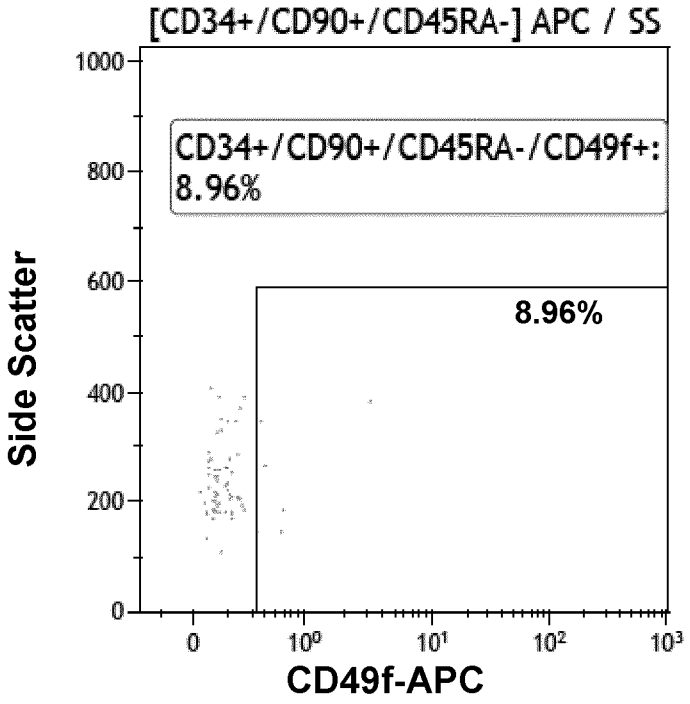
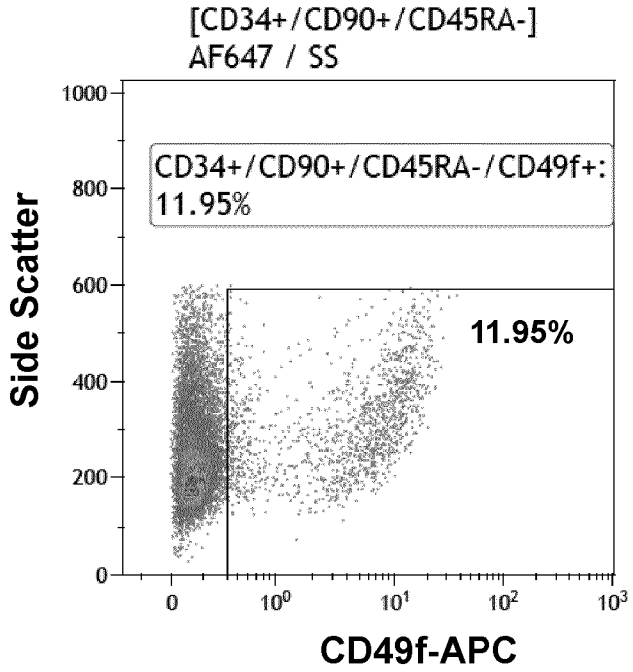


FIGURE 10 (CONTINUED)

Culture + MPC



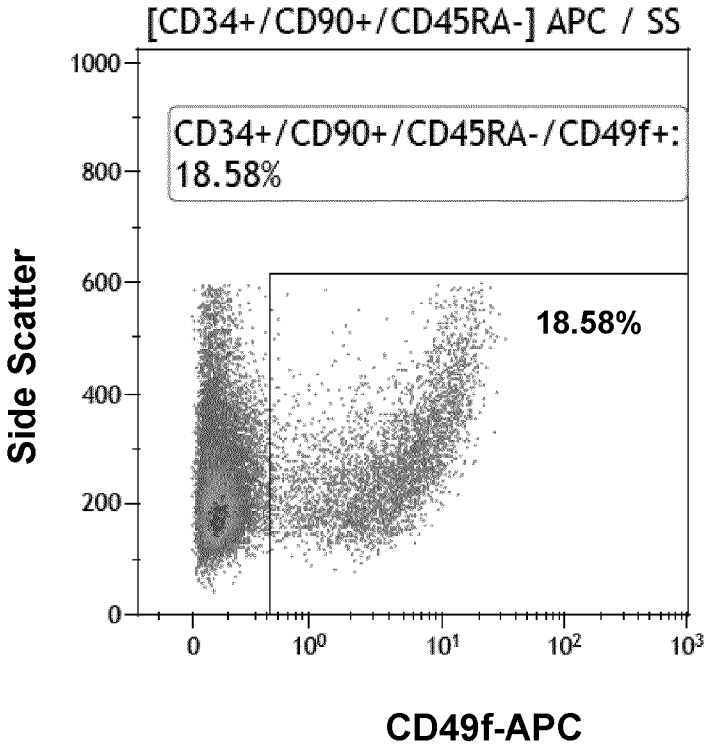


FIGURE 10 (CONTINUED)

Culture + MPC

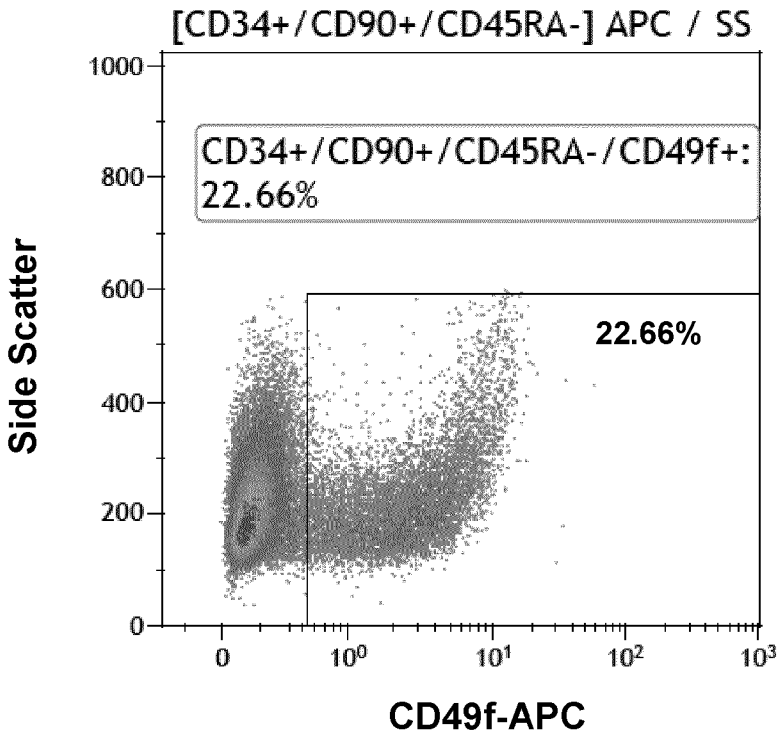


FIGURE 10 (CONTINUED)

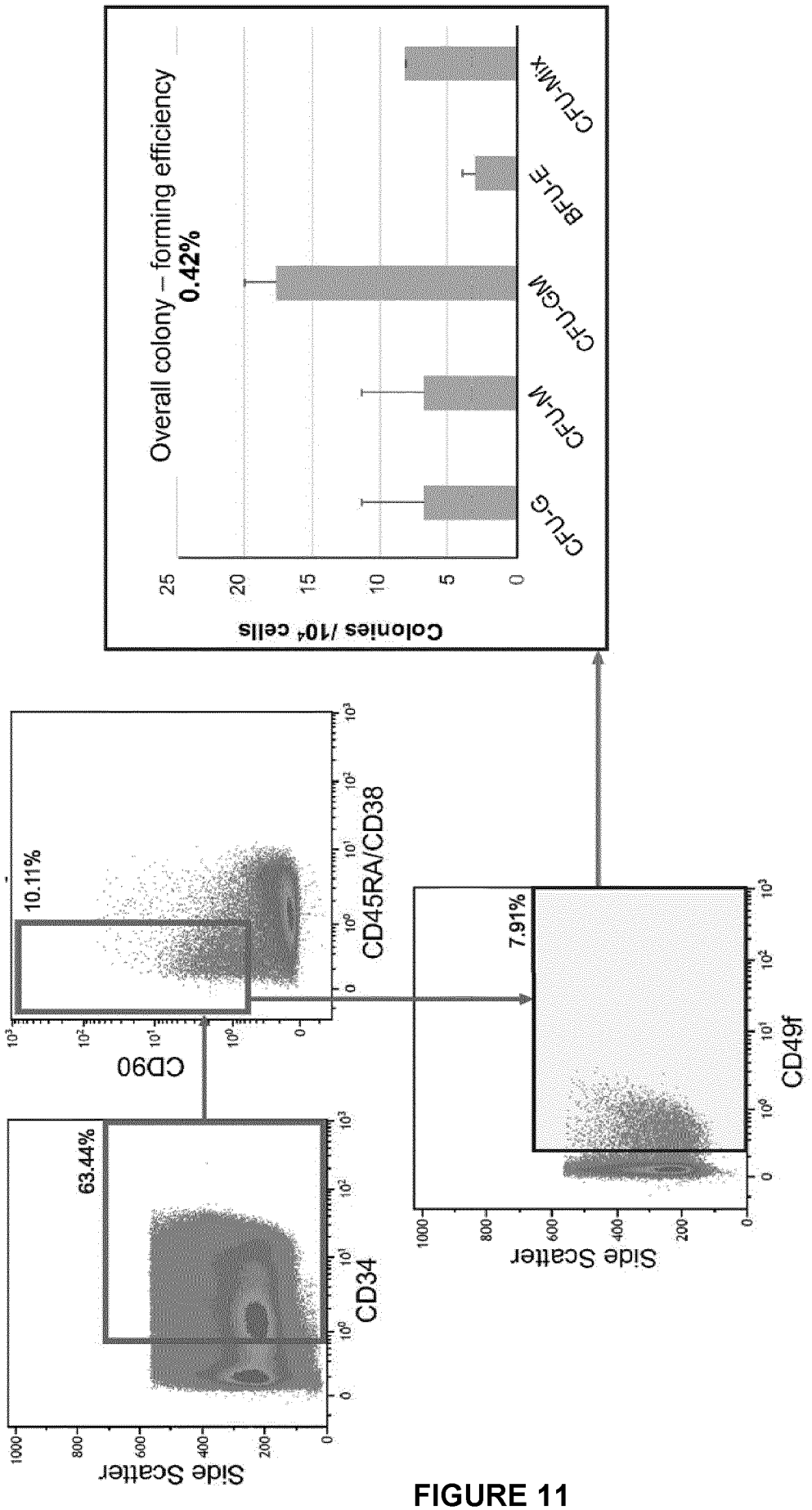

Overall colony – forming efficiency
0.42%
Colonies /10⁴ cells
25
20
15
10
5
0
CFU-G
CFU-M
CFU-GM
BFU-E
CFU-Mix
Side Scatter
63.44%
CD34
CD90
10.11%
CD45RA/CD38
7.91%
CD49f

FIGURE 11