Figure 1.

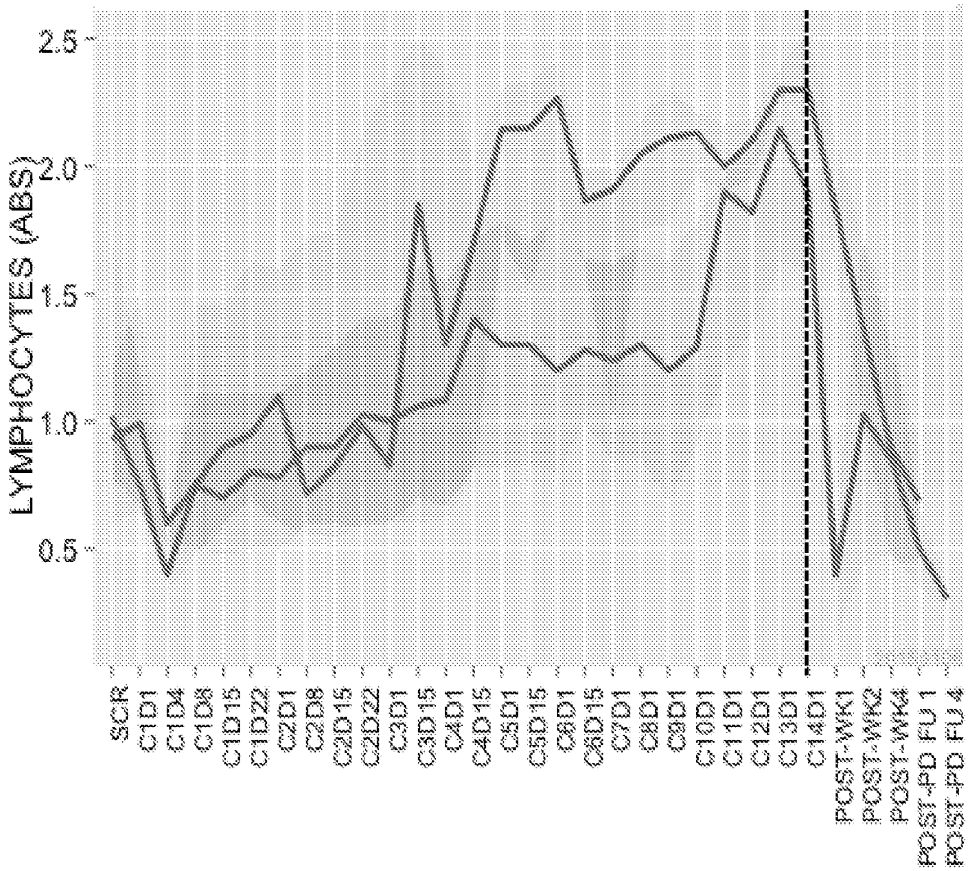

LYMPHOCYTES (ABS)
2.5
2.0
1.5
1.0
0.5
SCR
C1D1
C1D4
C1D8
C1D15
C1D22
C2D1
C2D8
C2D15
C2D22
C3D1
C3D15
C4D1
C4D15
C5D1
C5D15
C6D1
C6D15
C7D1
C8D1
C9D1
C10D1
C11D1
C12D1
C13D1
C14D1
POST-WK1
POST-WK2
POST-WK4
POST-PD FU 1
POST-PD FU 4

Figure 2.

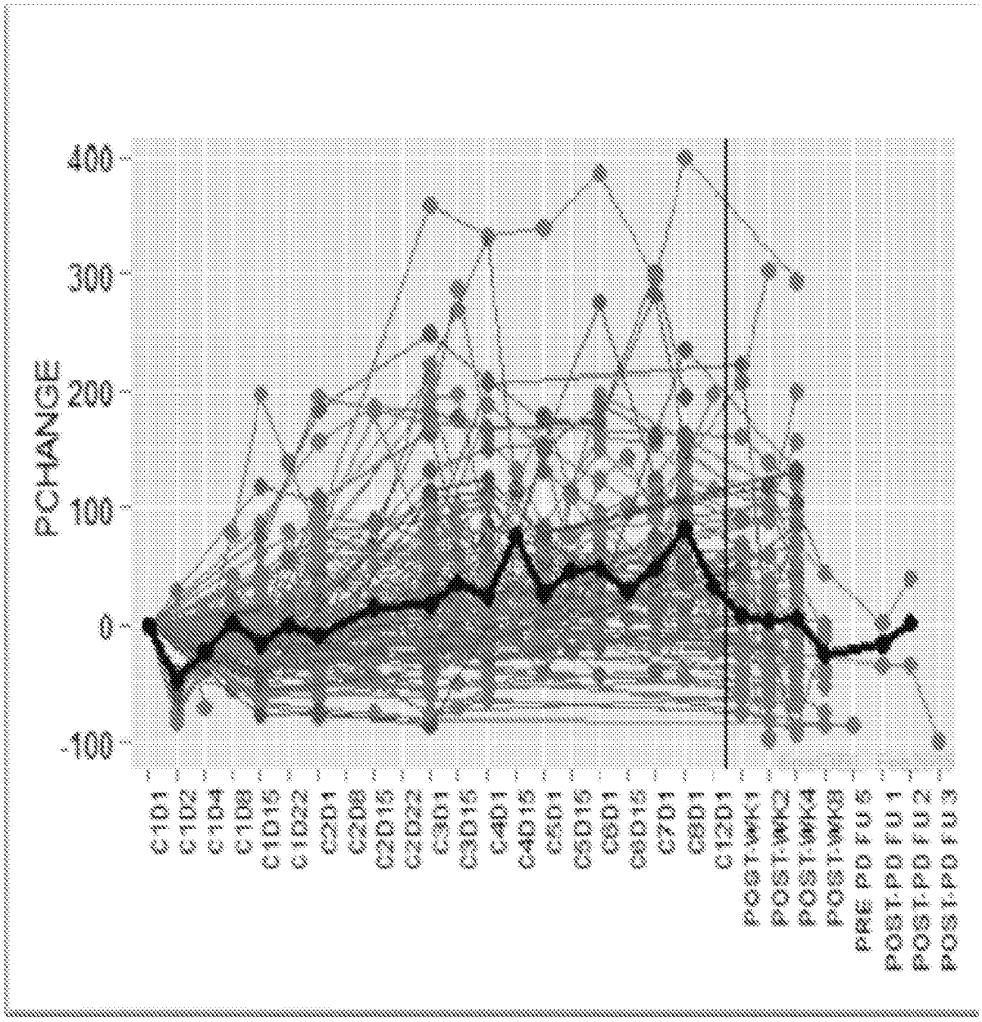

PCHANGE
400
300
200
100
0
-100
C101
C102
C104
C108
C1015
C1022
C201
C208
C2015
C2022
C301
C3015
C401
C4015
C501
C5015
C601
C6015
C701
C7015
C801
C8015
C901
C9015
C1001
C1015
POST-PD1
POST-PD2
POST-PD3
POST-PD4
POST-PD5
POST-PD6
POST-PD7
POST-PD8
POST-PD9
POST-PD10
POST-PD11
POST-PD12
POST-PD13

Figure 3.

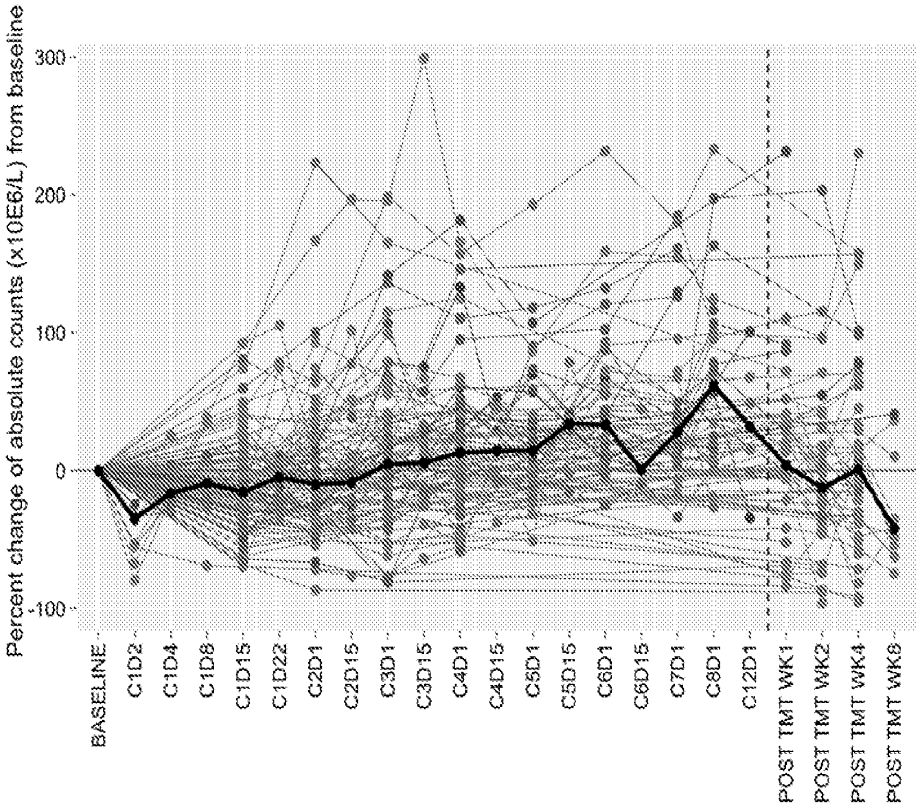

Percent change of absolute counts (x10E6/L) from baseline
300
200
100
0
-100
BASELINE
C1D2
C1D4
C1D8
C1D15
C1D22
C2D1
C2D15
C3D1
C3D15
C4D1
C4D15
C5D1
C5D15
C6D1
C6D15
C7D1
C8D1
C12D1
POST TMT WK1
POST TMT WK2
POST TMT WK4
POST TMT WK8

Figure 4.

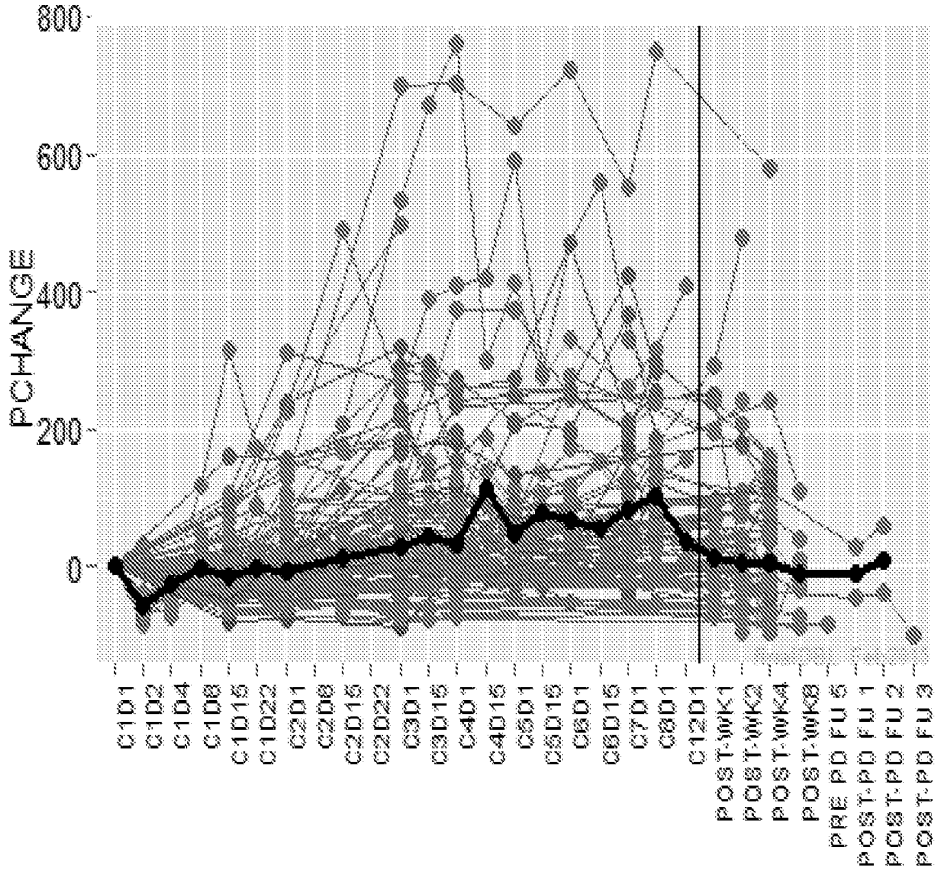

800
600
400
200
0
PCHANGE
C1D1
C1D2
C1D4
C1D8
C1D15
C1D22
C2D1
C2D8
C2D15
C2D22
C3D1
C3D15
C4D1
C4D15
C5D1
C5D15
C6D1
C6D15
C7D1
C8D1
C12D1
POST-WK1
POST-WK2
POST-WK4
POST-WK8
PRE PD FU 5
POST-PD FU 1
POST-PD FU 2
POST-PD FU 3

Figure 5.

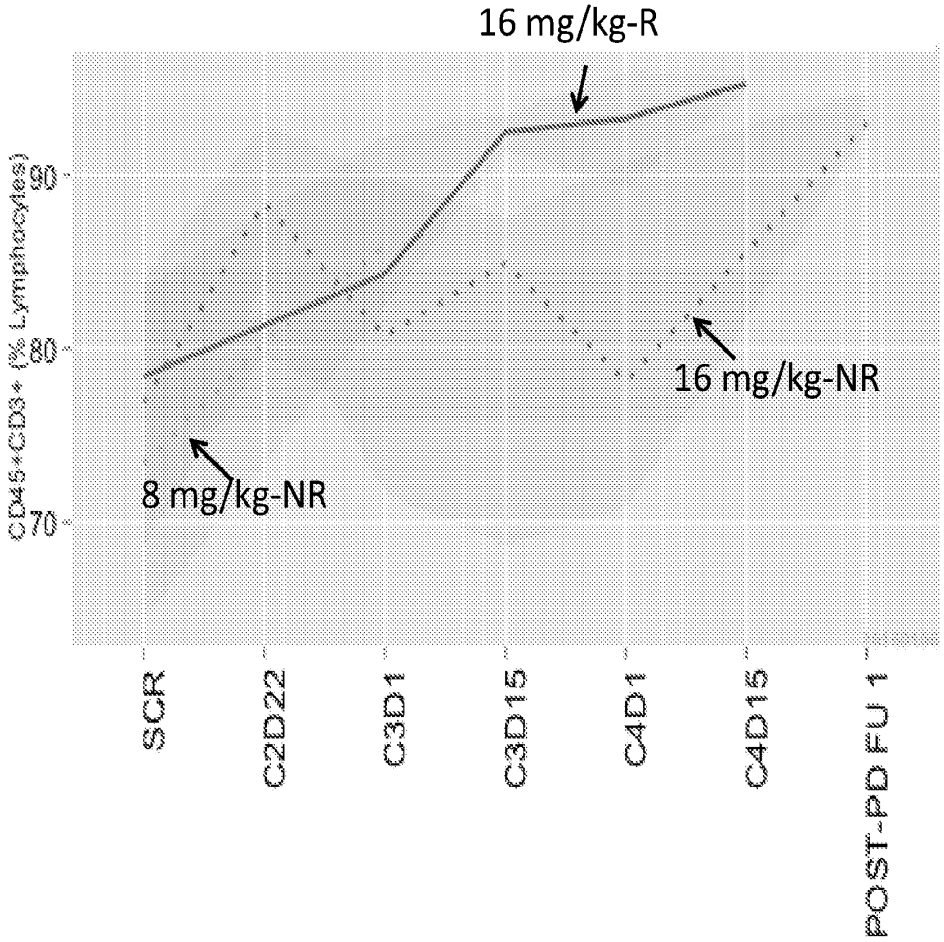

16 mg/kg-R
16 mg/kg-NR
8 mg/kg-NR
CD45+CD3+ (% Lymphocytes)
90
80
70
SCR
C2D22
C3D1
C3D15
C4D1
C4D15
POST-PD FU 1

Figure 6.

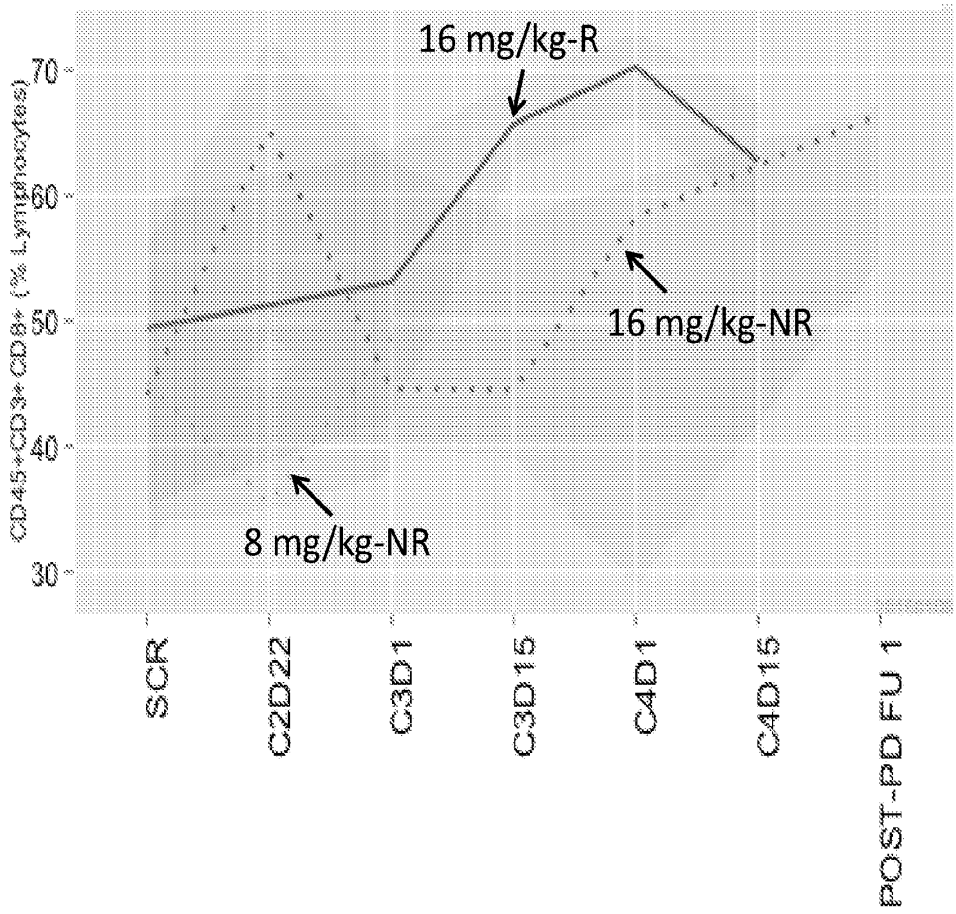

16 mg/kg-R
16 mg/kg-NR
8 mg/kg-NR
CD45+CD3+CD8+ (% Lymphocytes)
70
60
50
40
30
SCR
C2D22
C3D1
C3D15
C4D1
C4D15
POST-PD FU 1

Figure 7A.

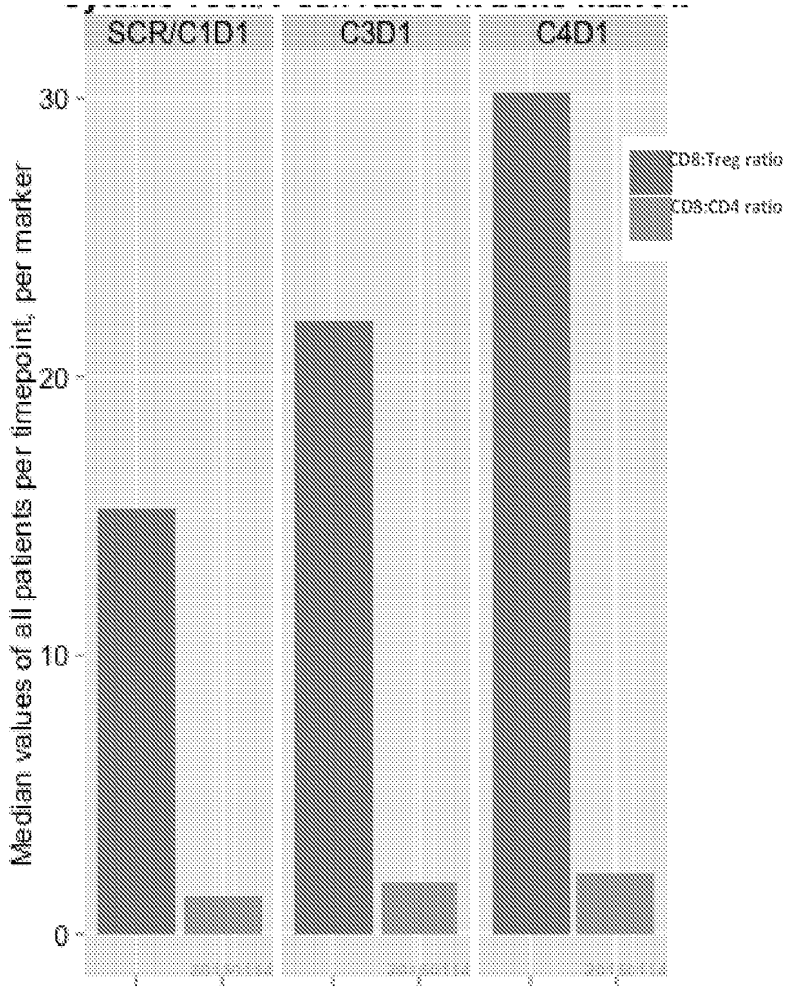

SCR/C1D1
C3D1
C4D1
30
20
10
0
Median values of all patients per timepoint, per marker
CD8:Treg ratio
CD8:CD4 ratio

Figure 7B.

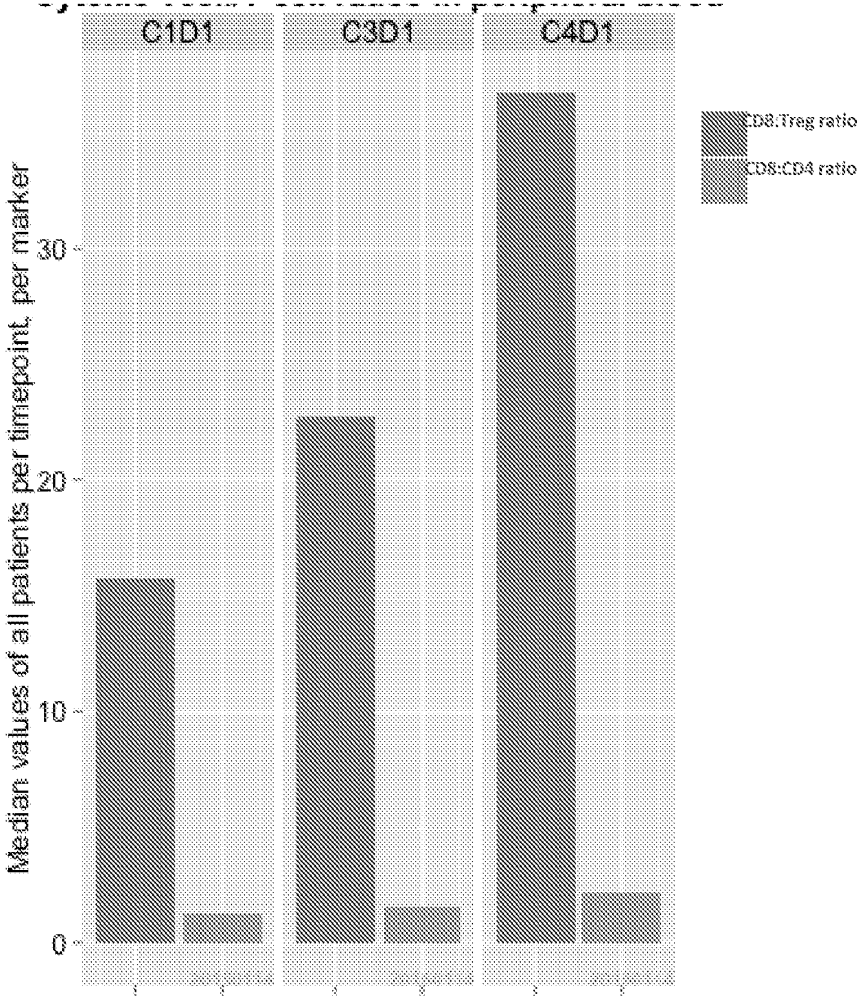

C1D1
C3D1
C4D1
CD8:Treg ratio
CD8:CD4 ratio
Median values of all patients per timepoint, per marker
30
20
10
0

Figure 8A.

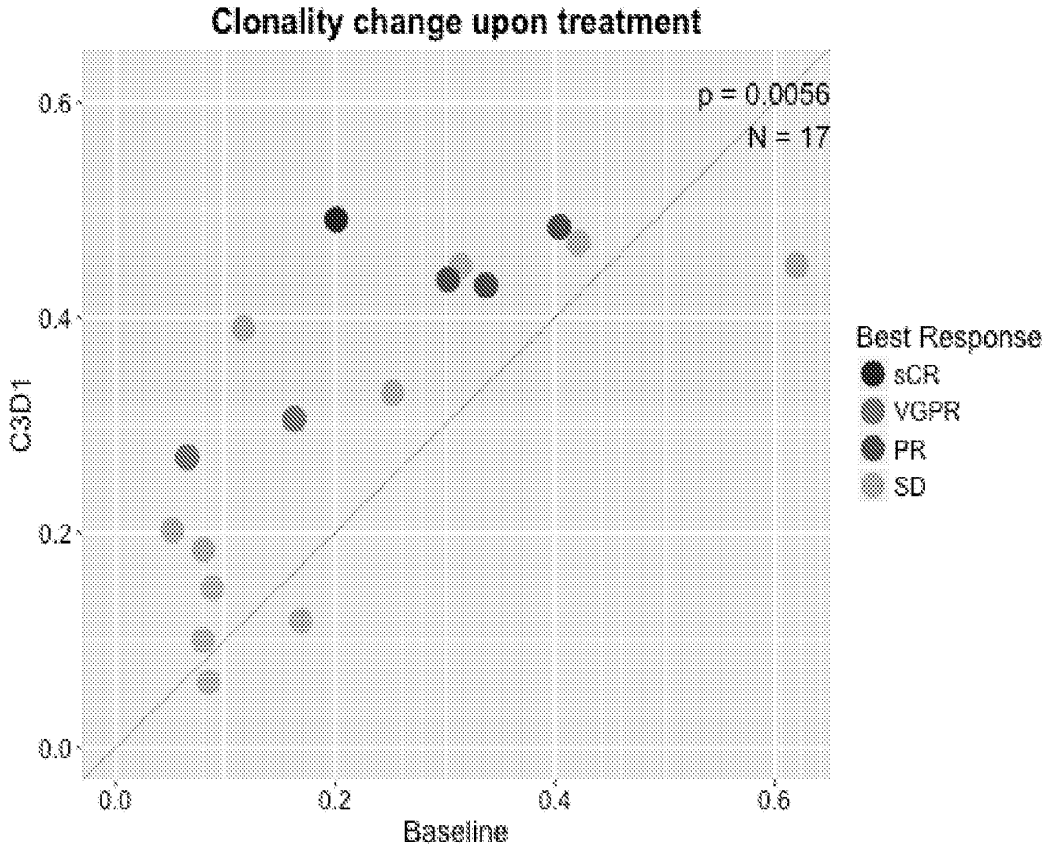

Clonality change upon treatment
p = 0.0056
N = 17
C3D1
Baseline
0.0
0.2
0.4
0.6
Best Response
sCR
VGPR
PR
SD

Figure 8B.

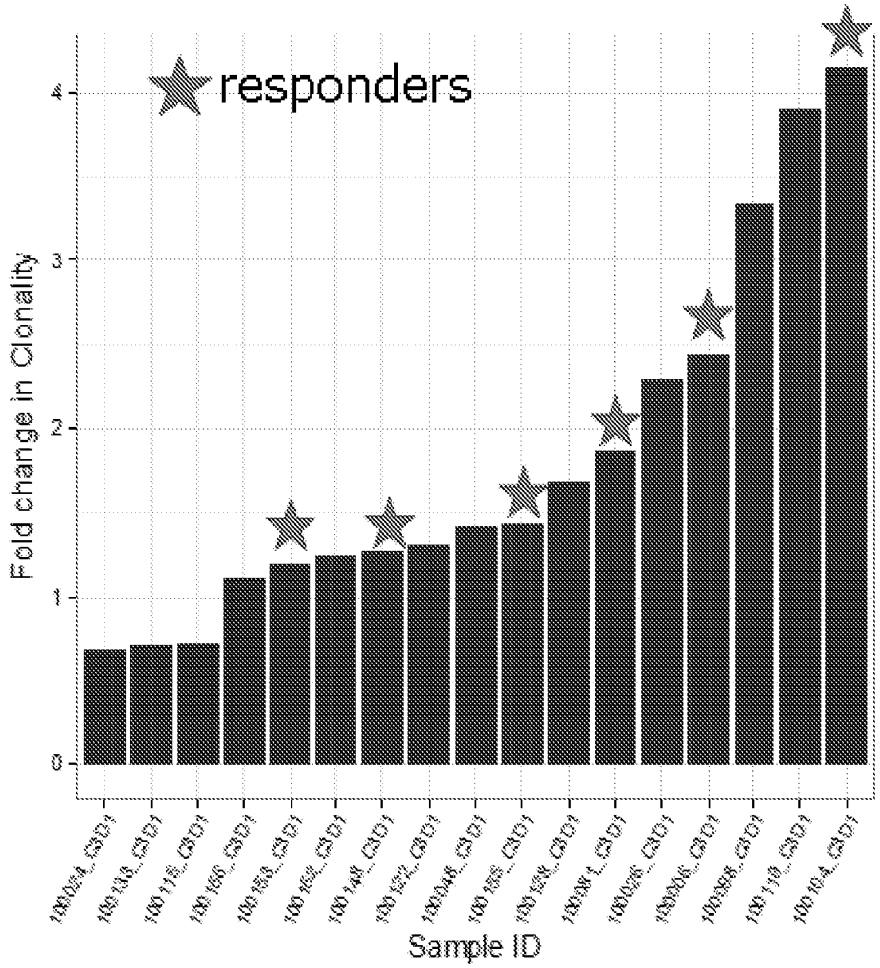


Figure 8C.

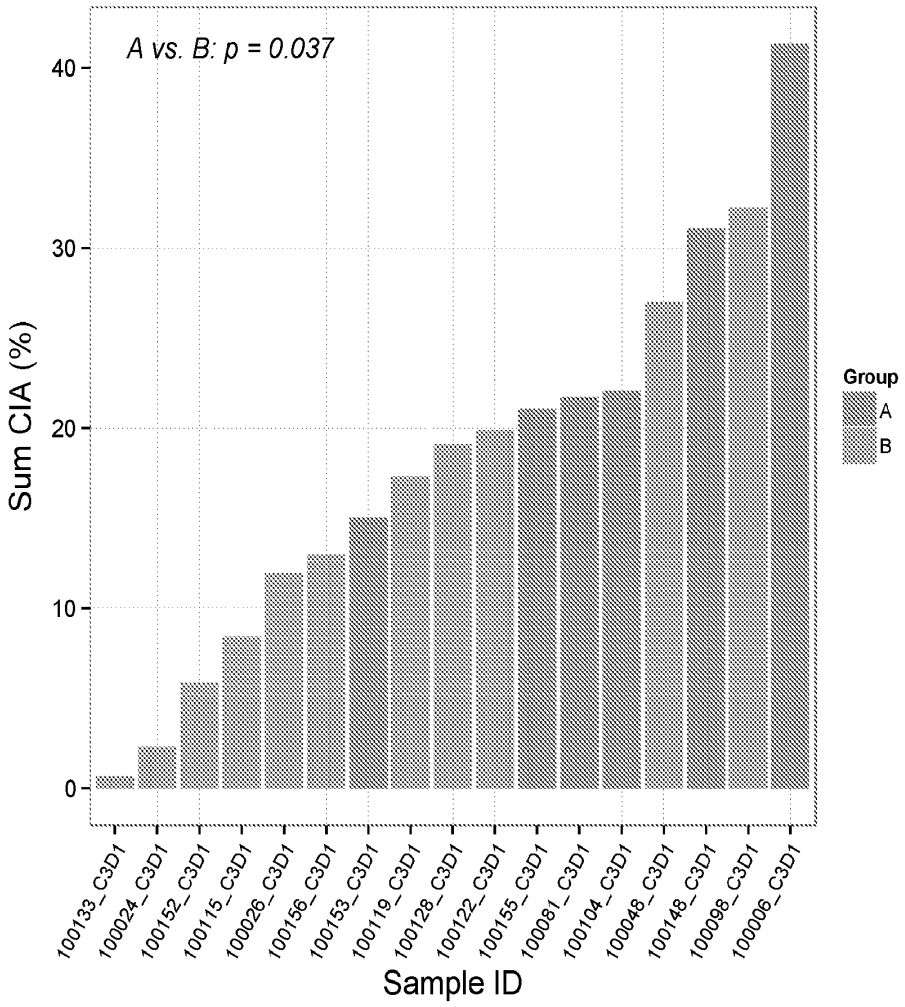

A vs. B: p = 0.037
Sum CIA (%)
0
10
20
30
40
Group
A
B
100133_C3D1
100024_C3D1
100152_C3D1
100115_C3D1
100026_C3D1
100156_C3D1
100153_C3D1
100119_C3D1
100128_C3D1
100122_C3D1
100155_C3D1
100081_C3D1
100104_C3D1
100048_C3D1
100148_C3D1
100098_C3D1
100006_C3D1
Sample ID

Figure 8D.

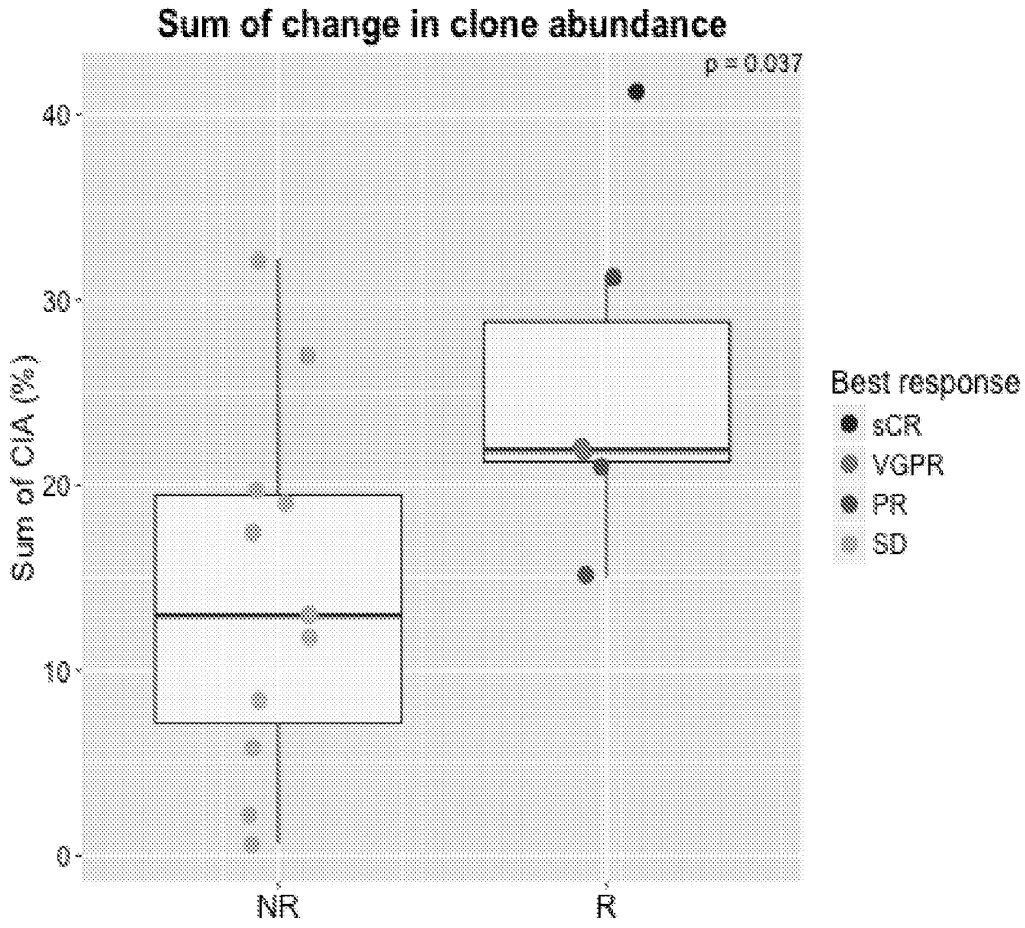

Sum of change in clone abundance
p = 0.037
Sum of CIA (%)
40
30
20
10
0
NR
R
Best response
sCR
VGPR
PR
SD

Figure 8E.

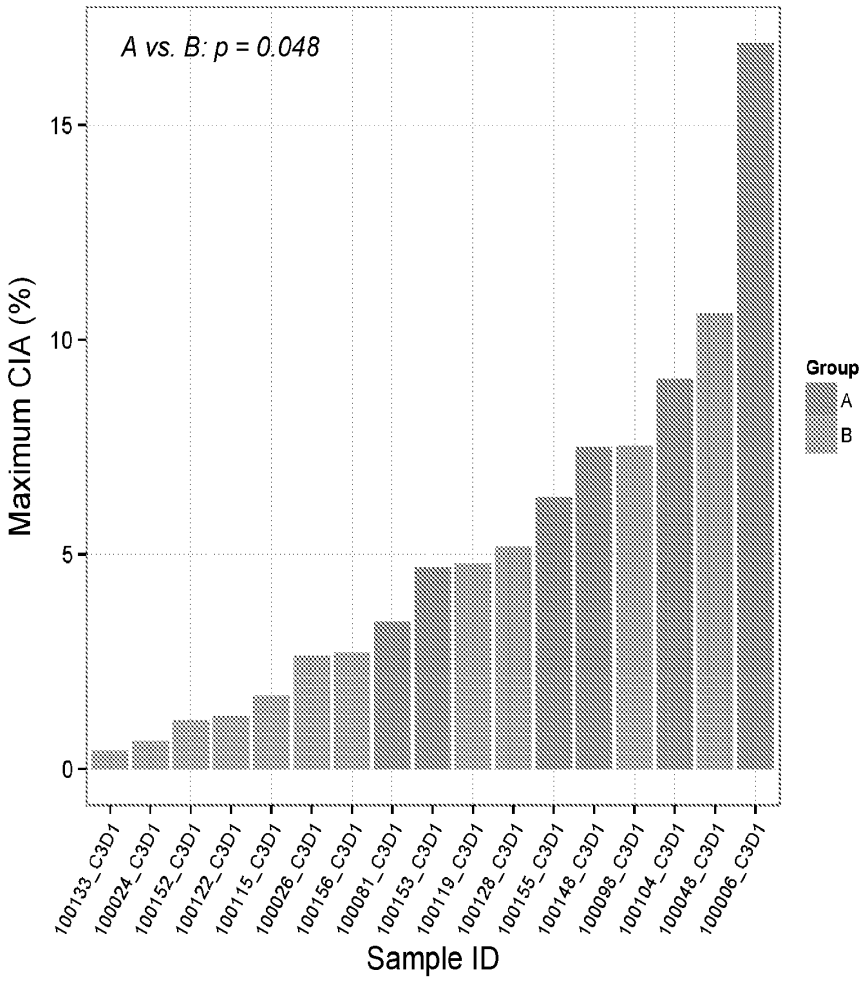

A vs. B: p = 0.048
Maximum CIA (%)
0
5
10
15
Group
A
B
100133_C3D1
100024_C3D1
100152_C3D1
100122_C3D1
100115_C3D1
100026_C3D1
100156_C3D1
100081_C3D1
100153_C3D1
100119_C3D1
100128_C3D1
100155_C3D1
100148_C3D1
100098_C3D1
100104_C3D1
100048_C3D1
100006_C3D1
Sample ID

Figure 8F.

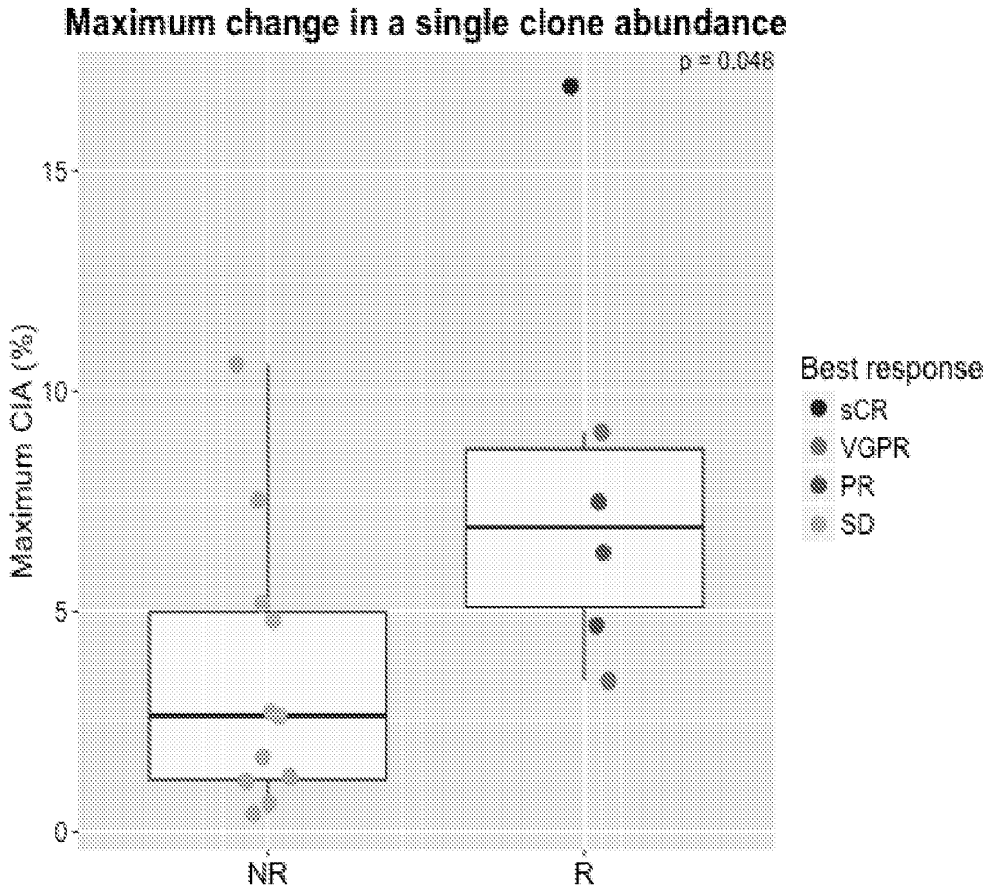

Maximum change in a single clone abundance
p = 0.048
Maximum ClA (%)
15
10
5
0
NR
R
Best response
sCR
VGPR
PR
SD

Figure 9A.

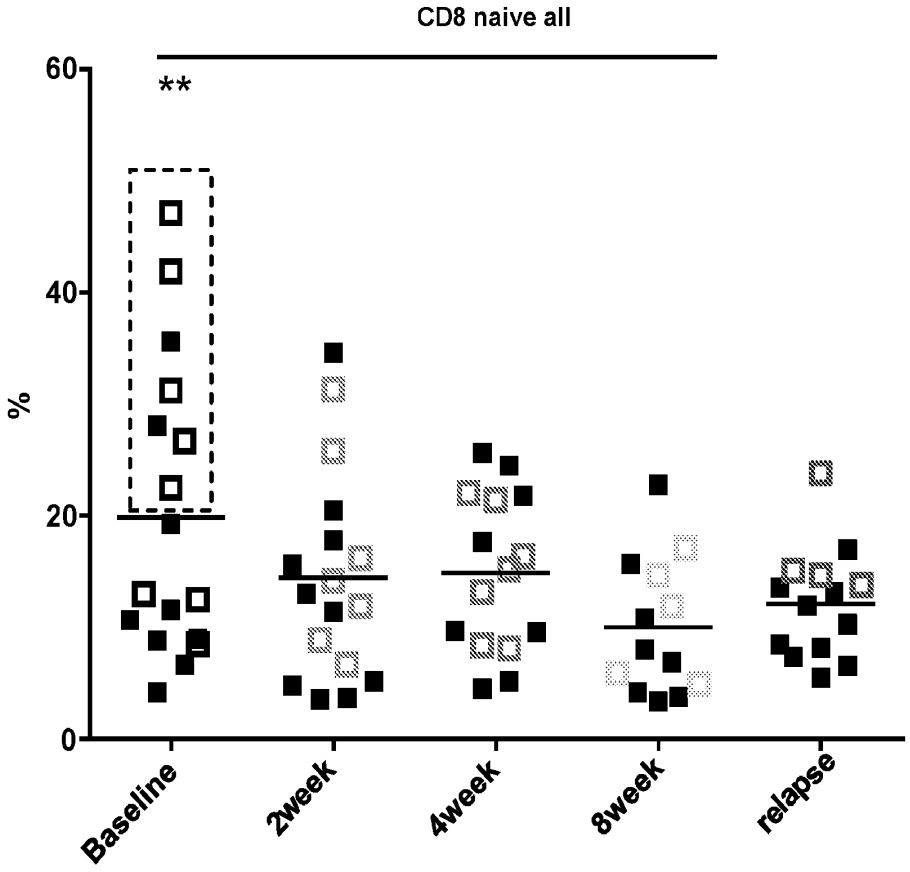


Figure 9B.

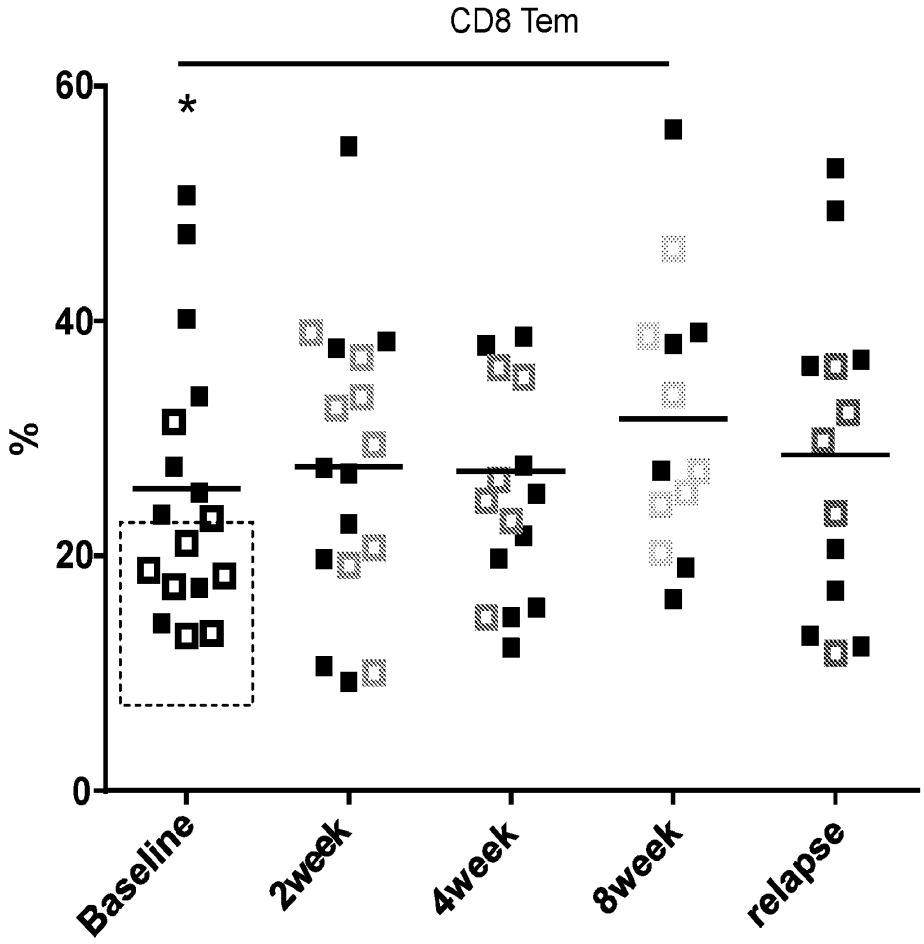


Figure 9C.

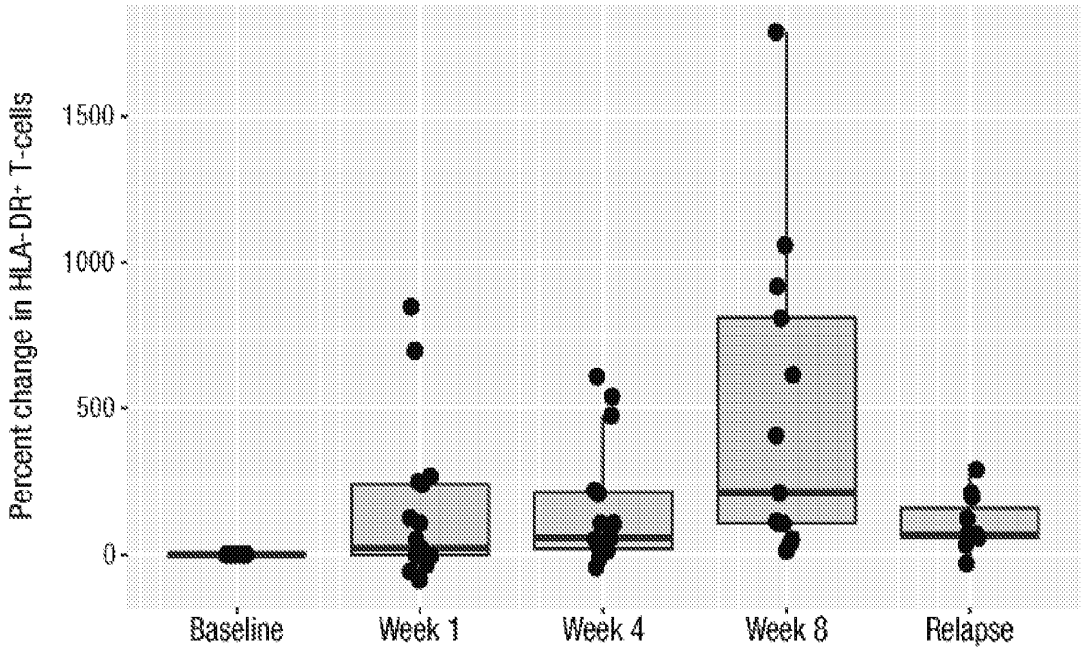

Percent change in HLA-DR+ T-cells
1500
1000
500
0
Baseline
Week 1
Week 4
Week 8
Relapse

Figure 9D.

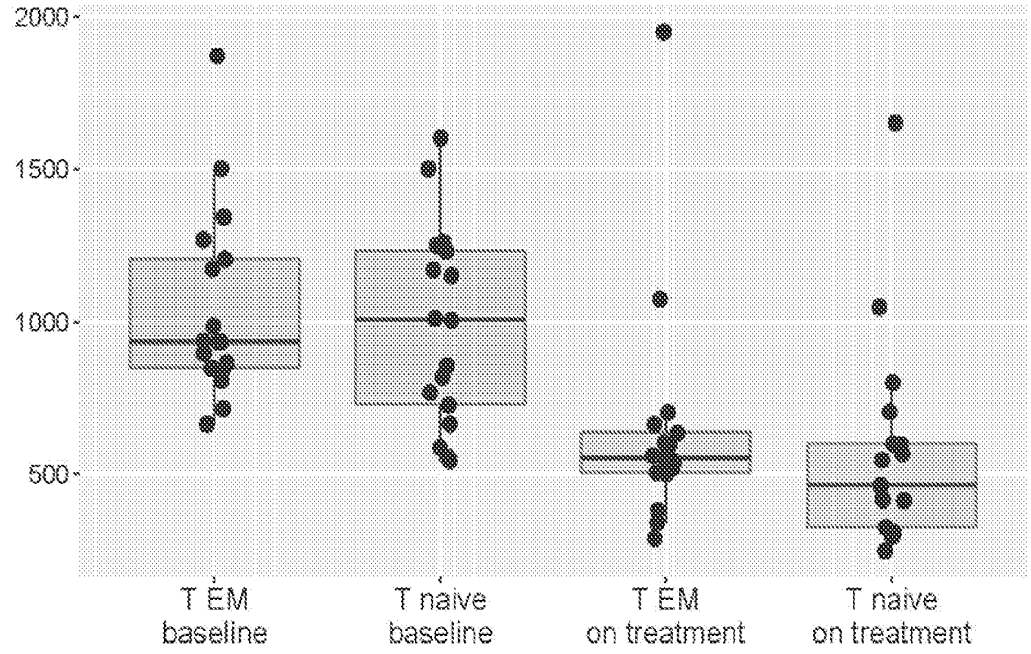
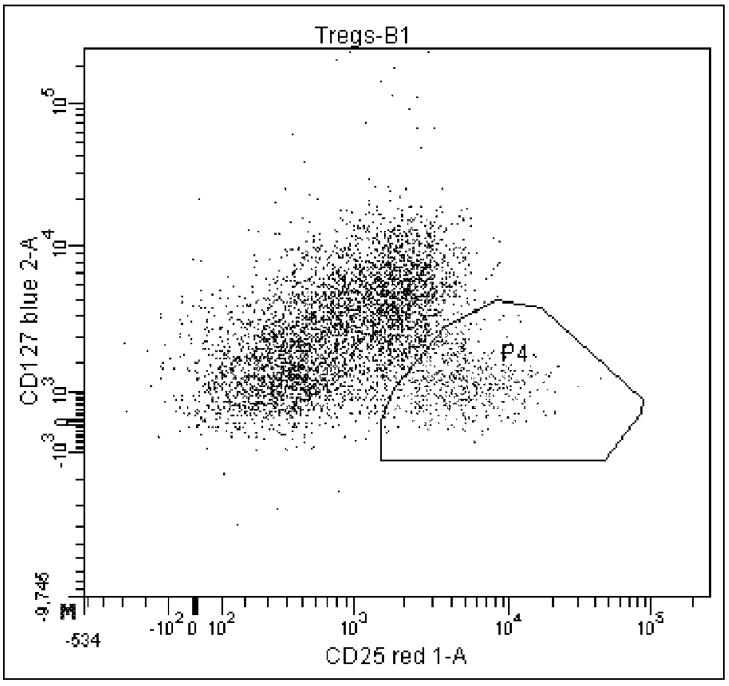

2000
1500
1000
500
T EM baseline
T naive baseline
T EM on treatment
T naive on treatment

Figure 10A.


Tregs-B1
P4
CD127 blue 2-A
CD25 red 1-A
-9,745
-534

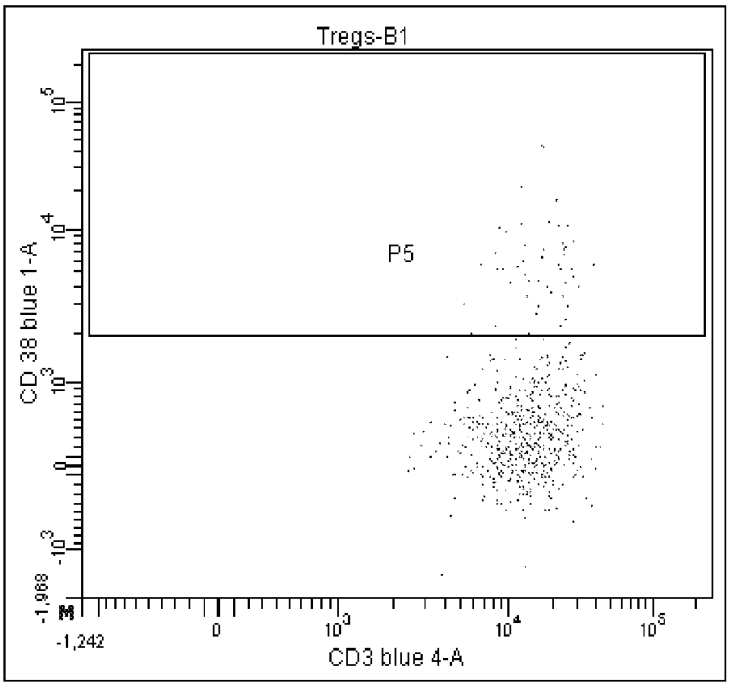
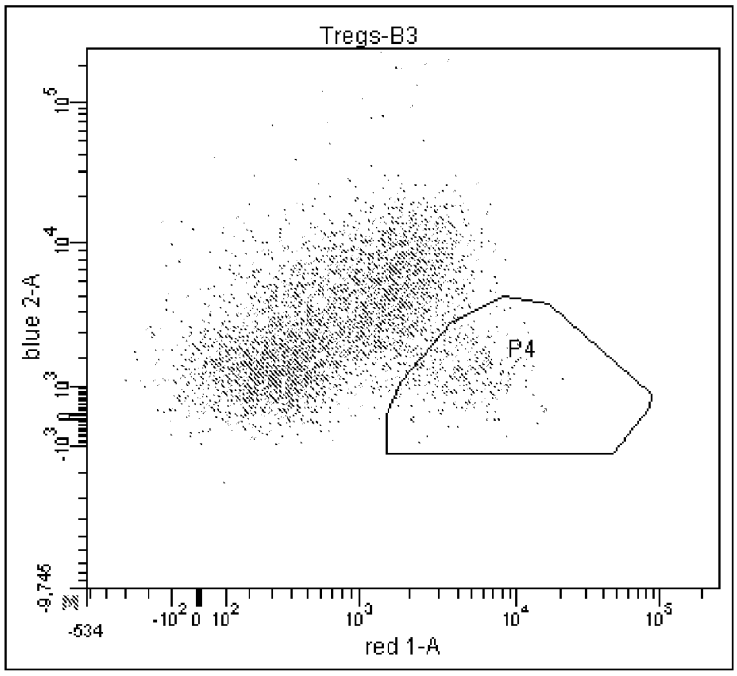

Tregs-B1
P5
CD 38 blue 1-A
CD3 blue 4-A
-1,968
-1,242

Figure 10B.


Tregs-B3
P4
blue 2-A
red 1-A
-9,745
-534

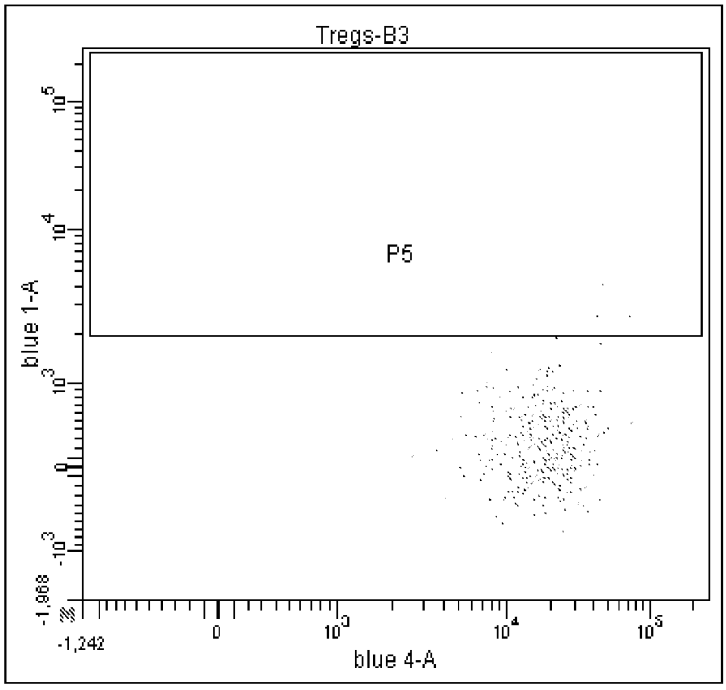

Tregs-B3
P5
blue 1-A
blue 4-A
-1,968
-1,242

Figure 10C.

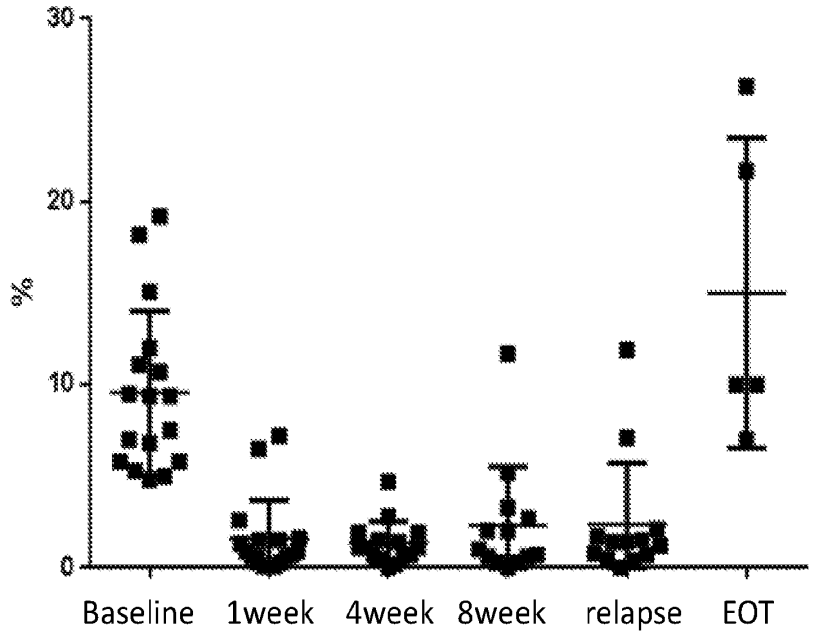


Figure 10D.

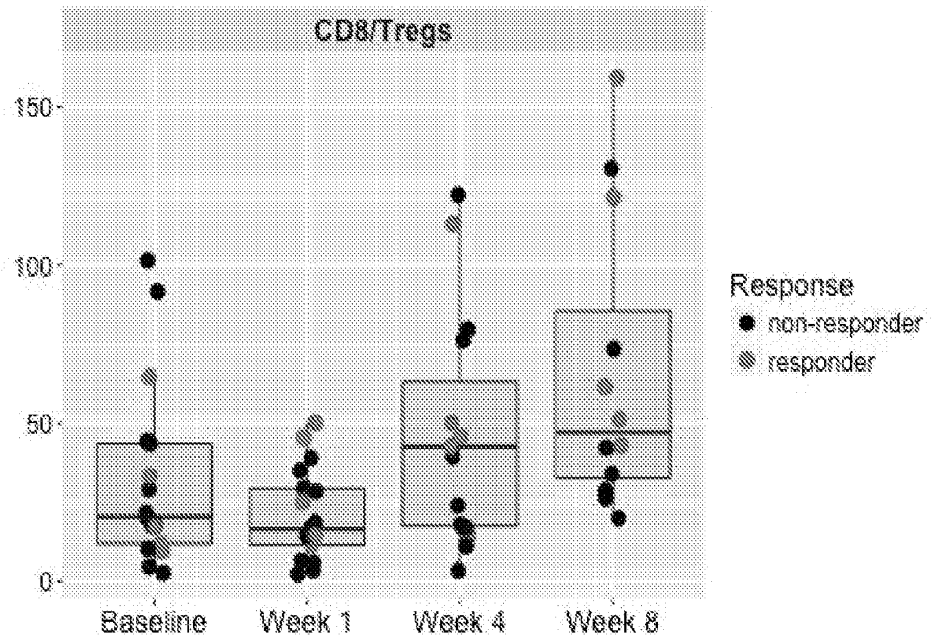

CD8/Tregs
150
100
50
0
Baseline
Week 1
Week 4
Week 8
Response
non-responder
responder

Figure 10E.

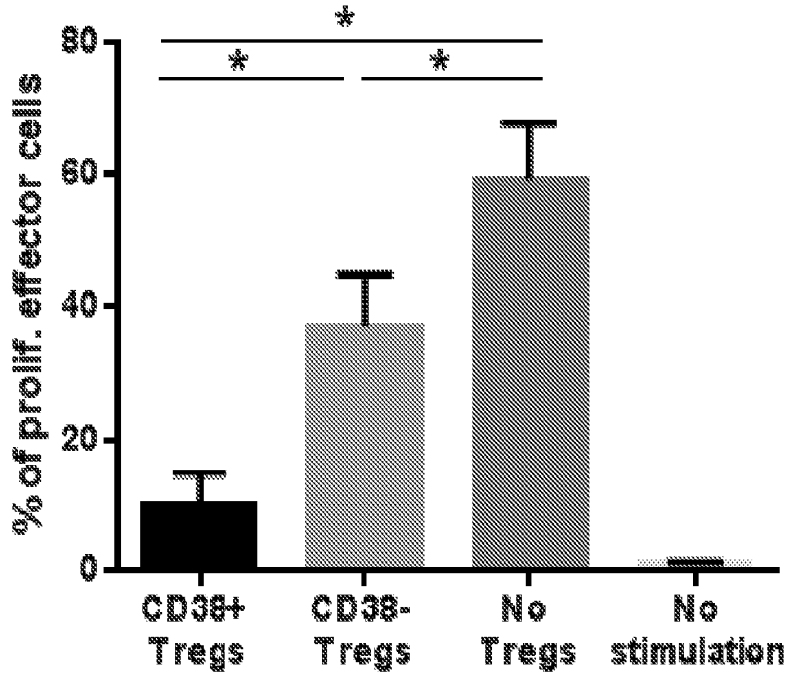

*
*
*
80
60
40
20
0
% of prolif. effector cells
CD38+ Tregs
CD38- Tregs
No Tregs
No stimulation

Figure 11.

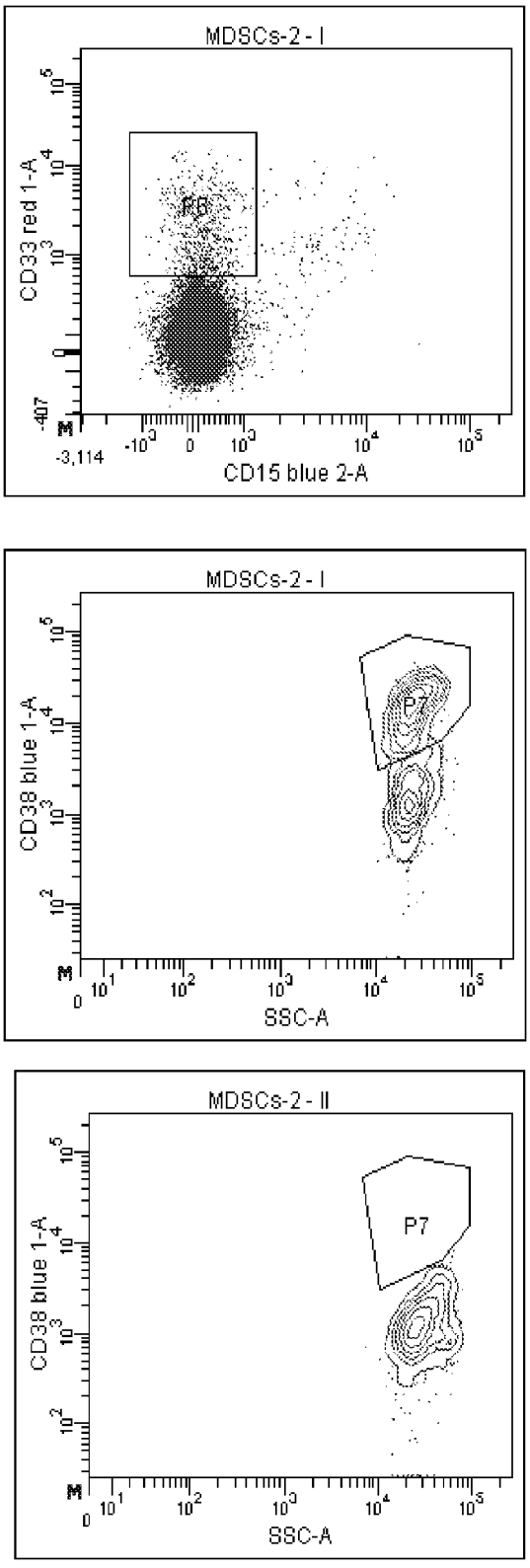

MDSCs-2 - I
CD33 red 1-A
P6
CD15 blue 2-A
MDSCs-2 - I
CD38 blue 1-A
P7
SSC-A
MDSCs-2 - II
CD38 blue 1-A
P7
SSC-A

Figure 12.

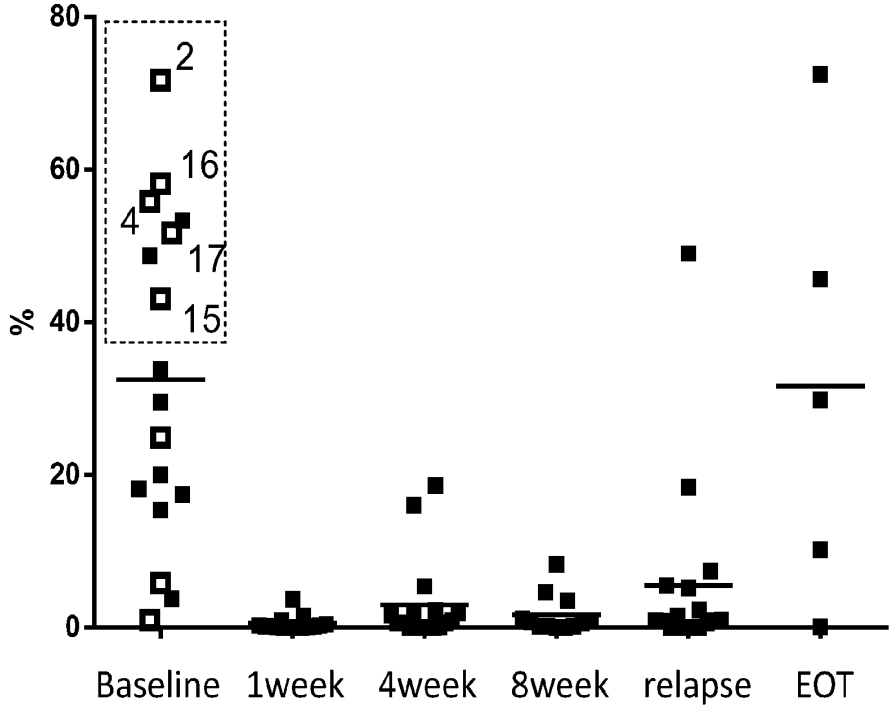

80
60
40
20
0
%
2
16
4
17
15
Baseline
1week
4week
8week
relapse
EOT

Figure 13.

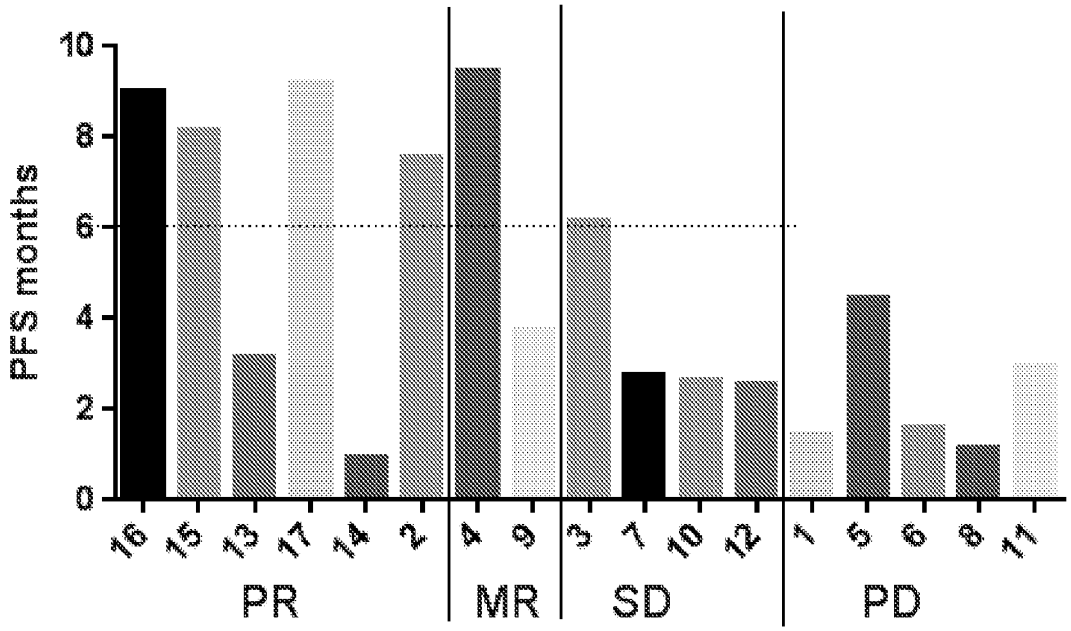


Figure 14.

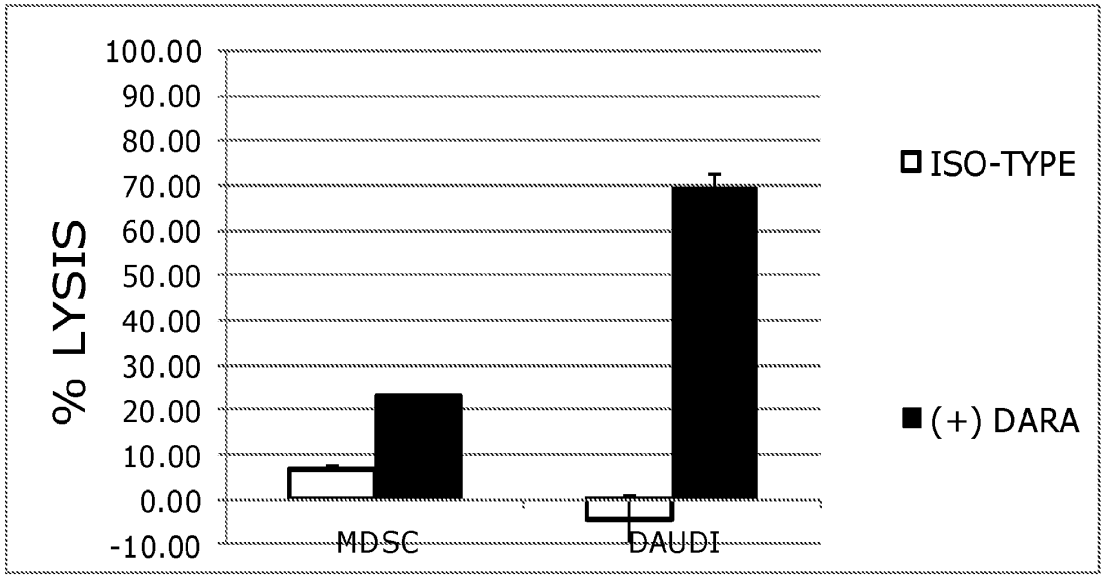

100.00
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
-10.00
% LYSIS
MDSC
DAUDI
ISO-TYPE
(+) DARA

Figure 15A.

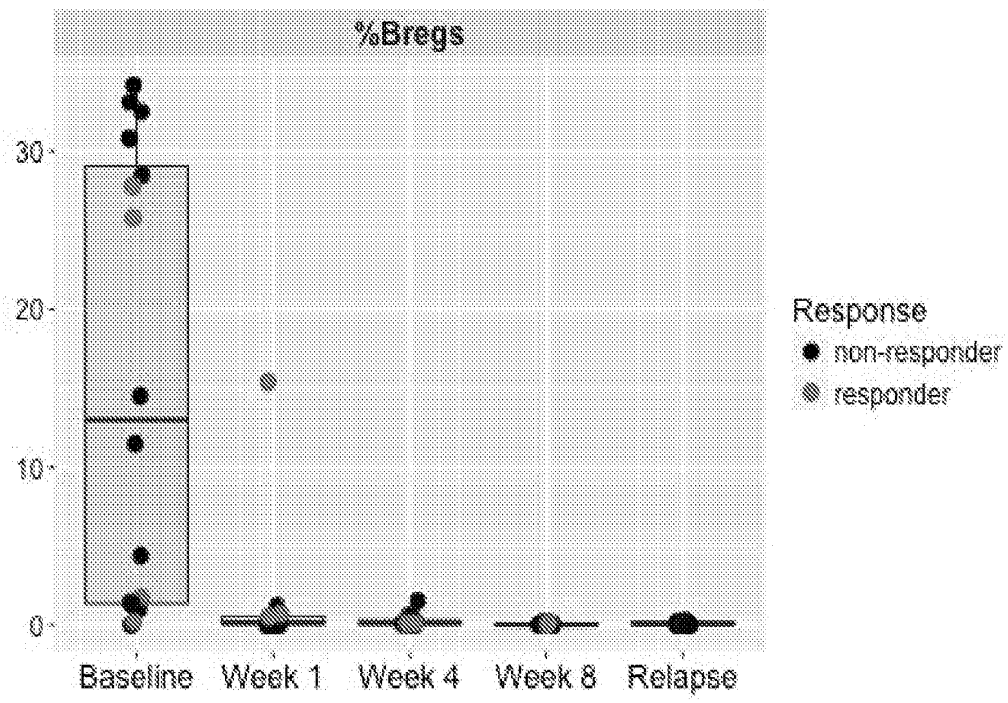

%Bregs
30
20
10
0
Baseline
Week 1
Week 4
Week 8
Relapse
Response
non-responder
responder

Figure 15B.

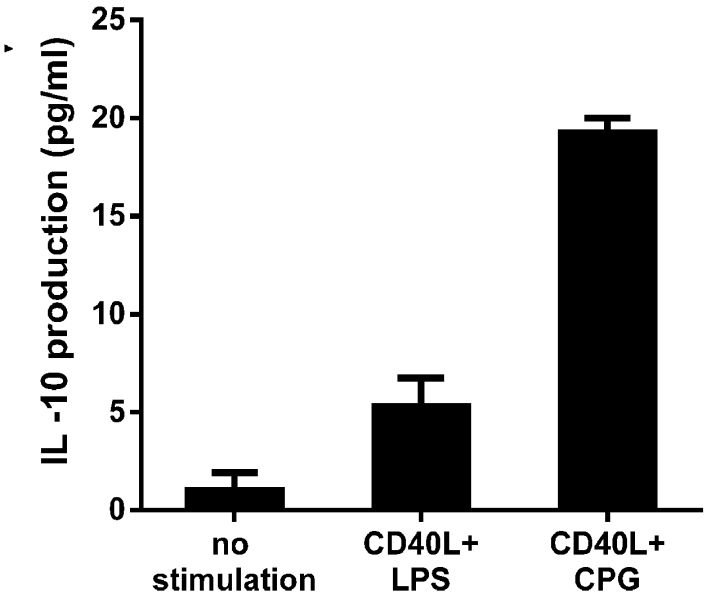

IL -10 production (pg/ml)
25
20
15
10
5
0
no stimulation
CD40L+ LPS
CD40L+ CPG

Figure 16A.

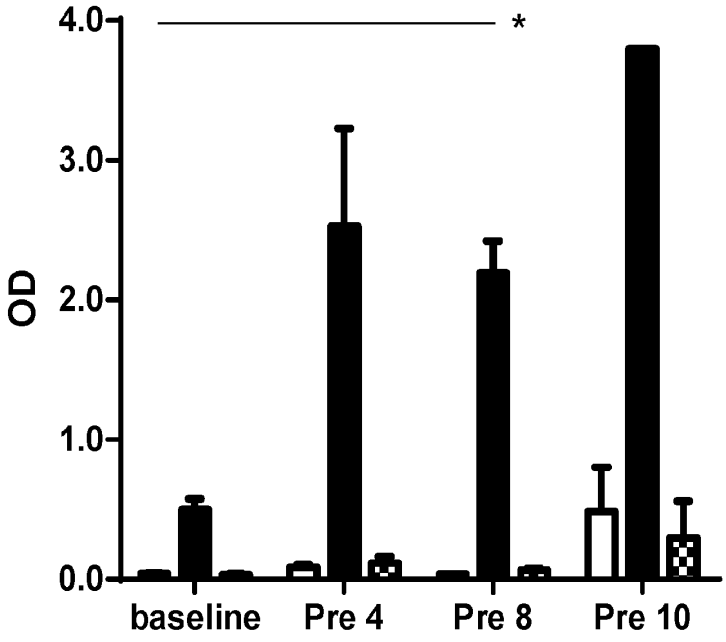


Figure 16B.

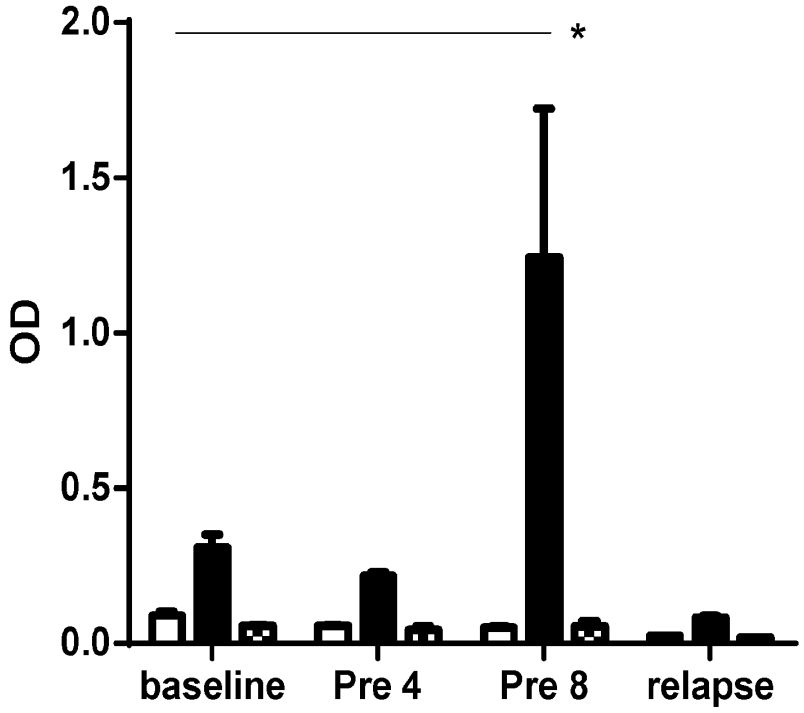


Figure 16C.

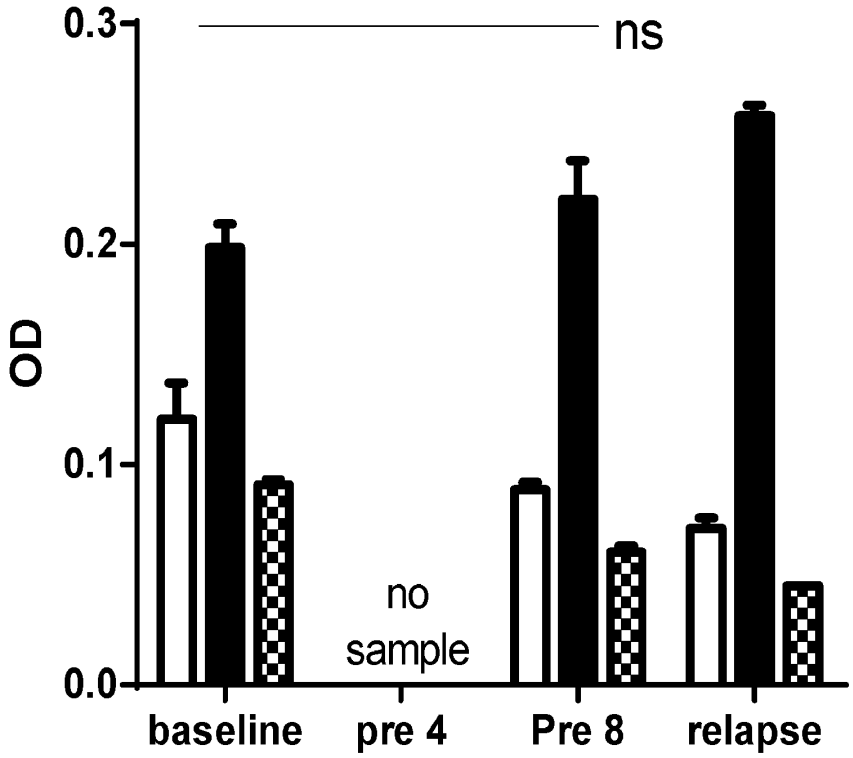
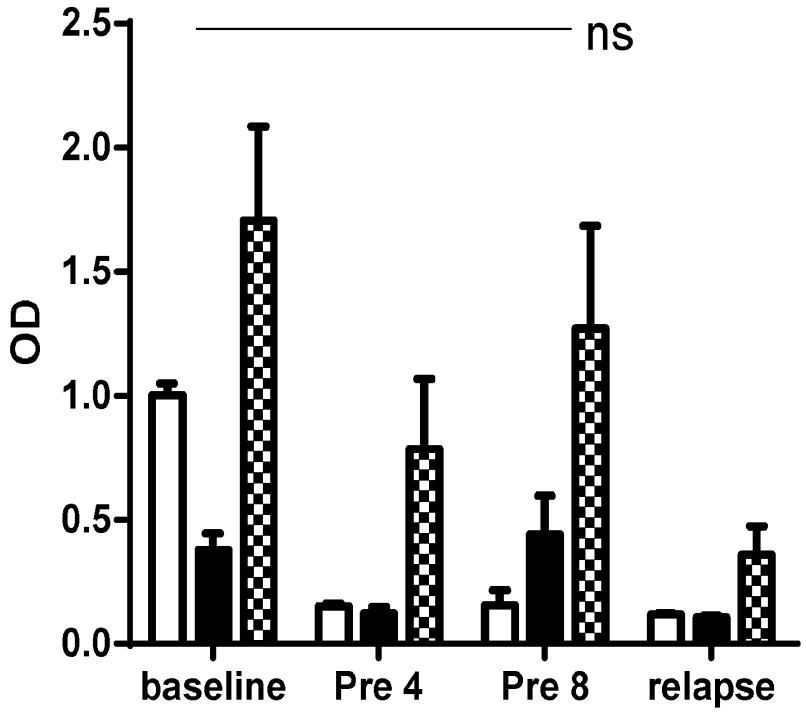


Figure 16D.



Figue 16E.

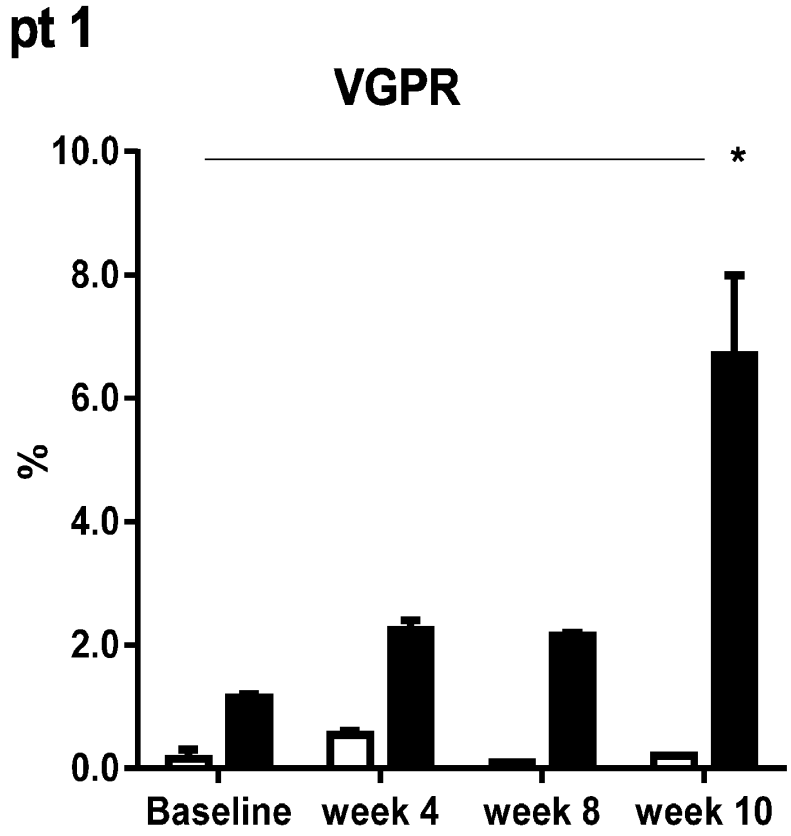


Figure 16F.

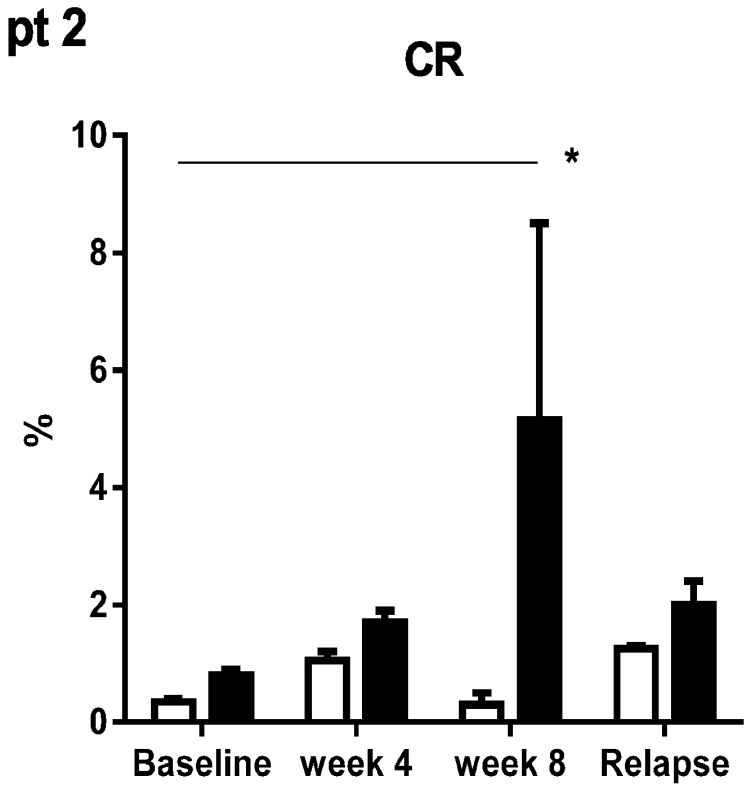


Figure 17A.

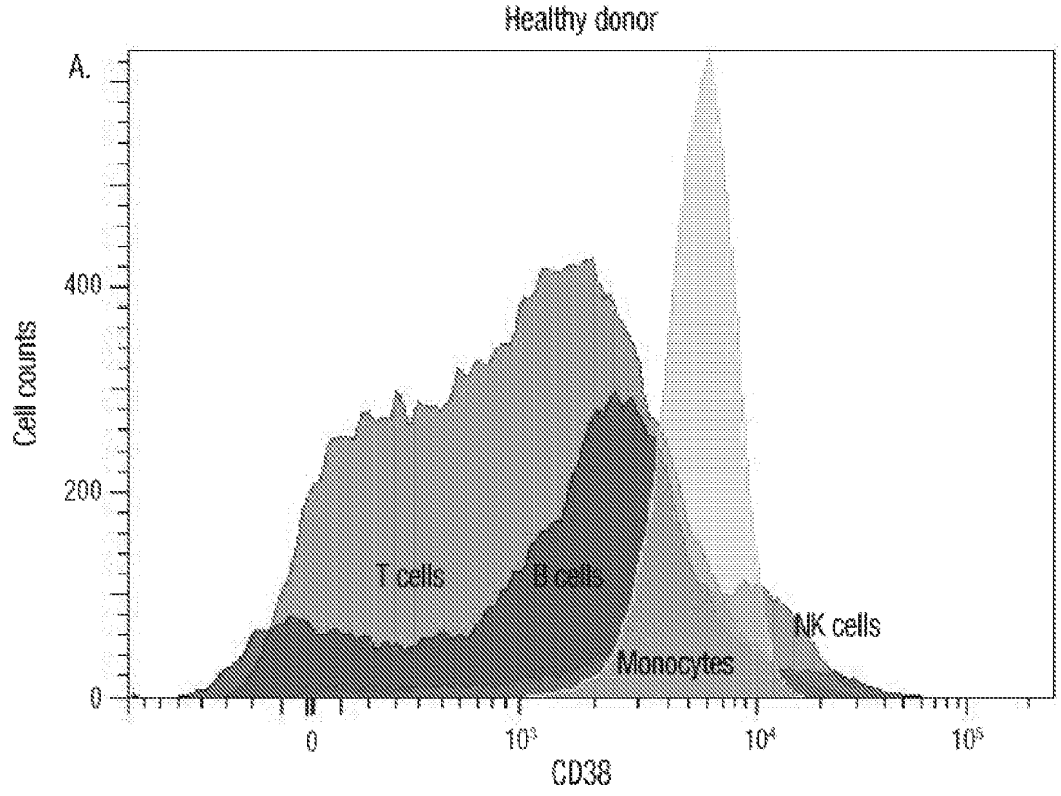

Healthy donor
A.
Cell counts
400
200
0
T cells
B cells
NK cells
Monocytes
0
10^3
10^4
10^5
CD38

Figure 17B.

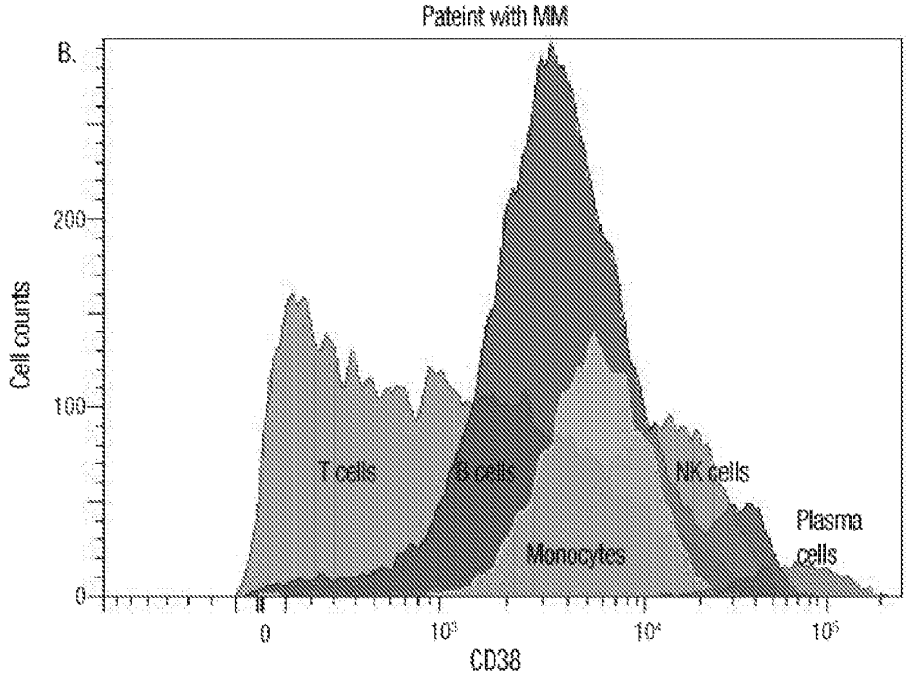

Pateint with MM
B.
200
100
0
Cell counts
T cells
B cells
NK cells
Plasma cells
Monocytes
0
10³
10⁴
10⁵
CD38

Figure 17C.

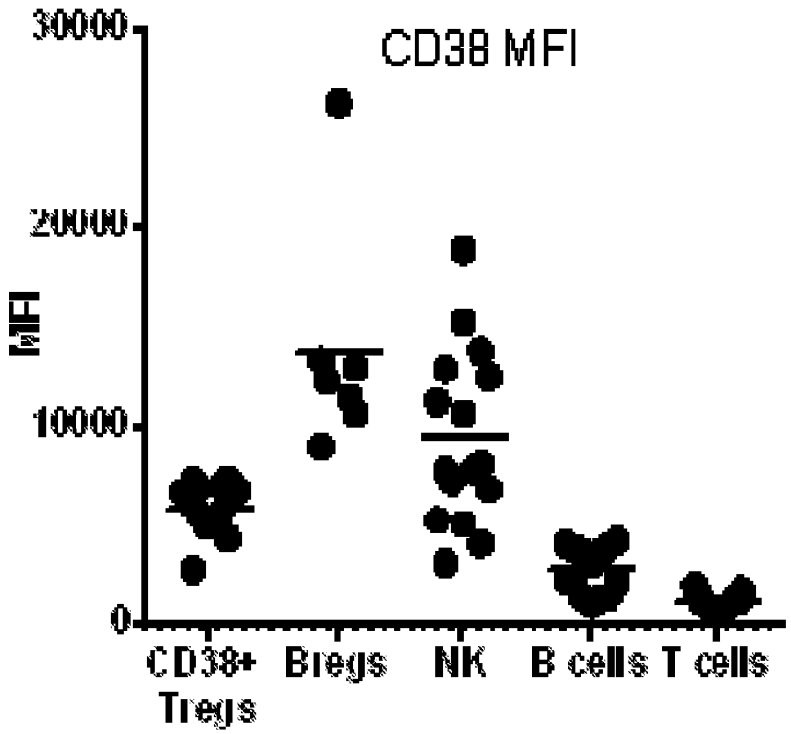
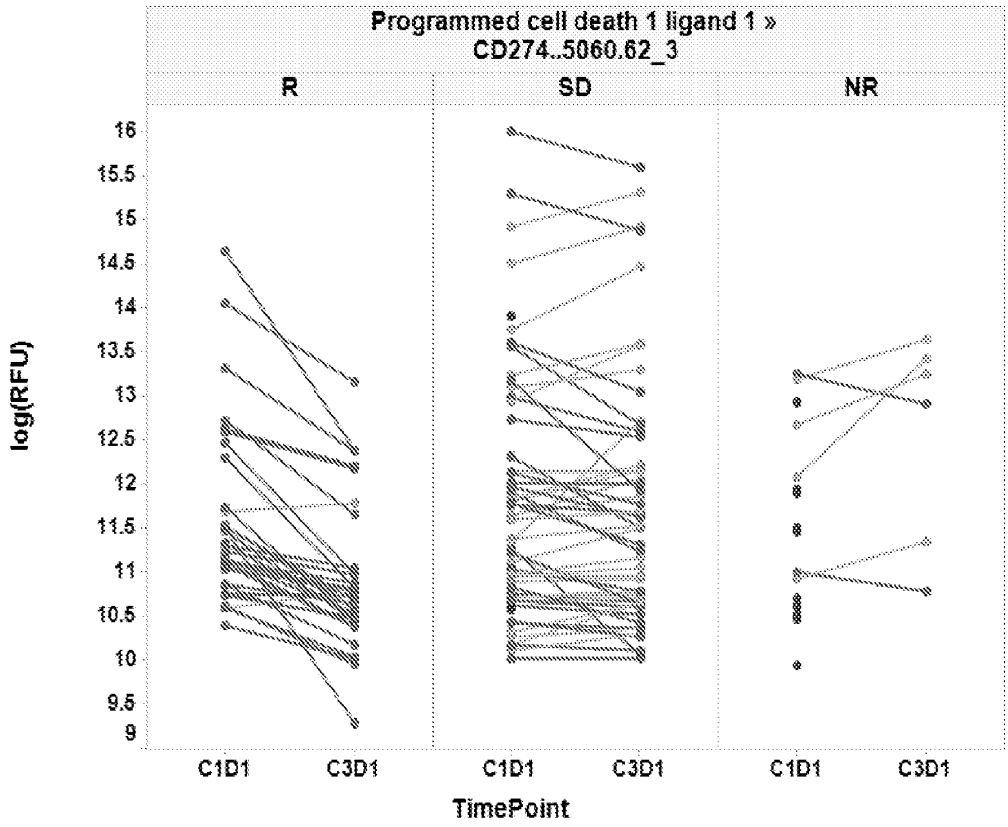

CD38 MFI
30000
20000
10000
0
MFI
CD38+ Tregs
Bregs
NK
B cells
T cells

Figure 18.


Programmed cell death 1 ligand 1 »
CD274..5060.62_3
R
SD
NR
log(RFU)
16
15.5
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
9.5
9
C1D1
C3D1
C1D1
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C1D1
C3D1
TimePoint