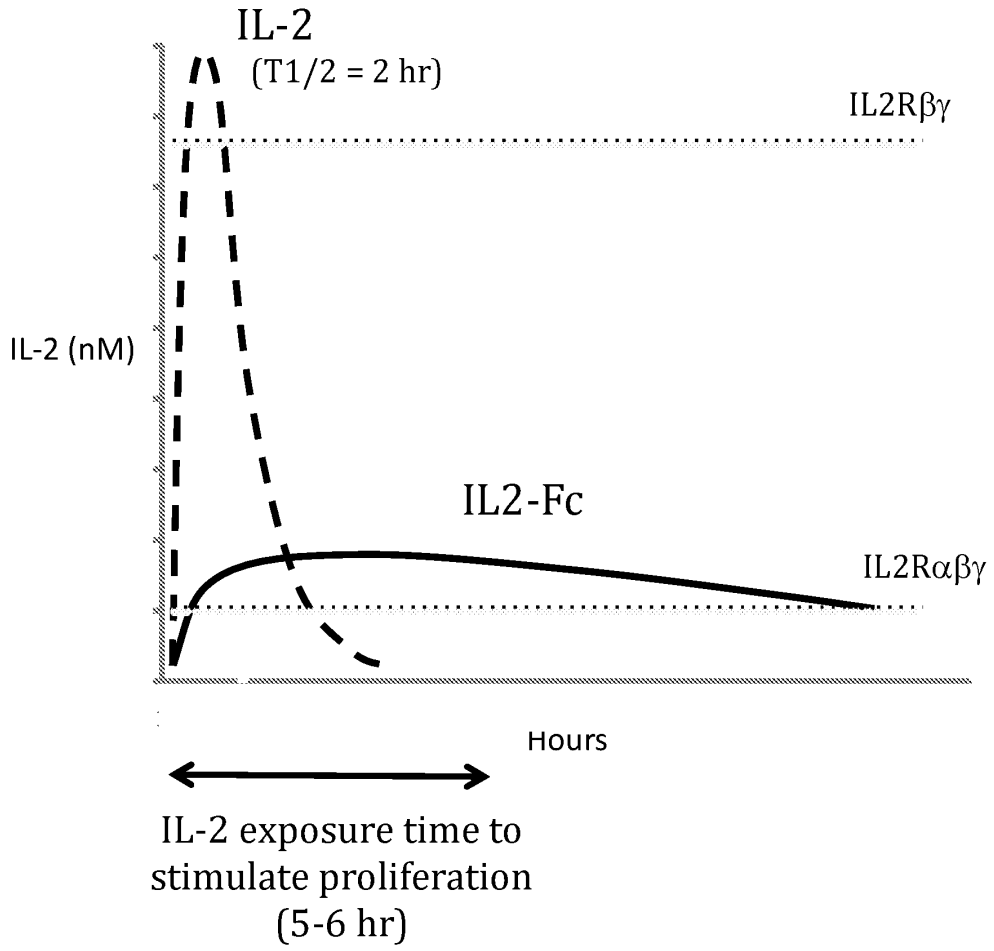
IL-2
(T1/2 = 2 hr)
IL2Rβγ
IL-2 (nM)
IL2-Fc
IL2Rαβγ
Hours
IL-2 exposure time to stimulate proliferation (5-6 hr)

FIG. 1

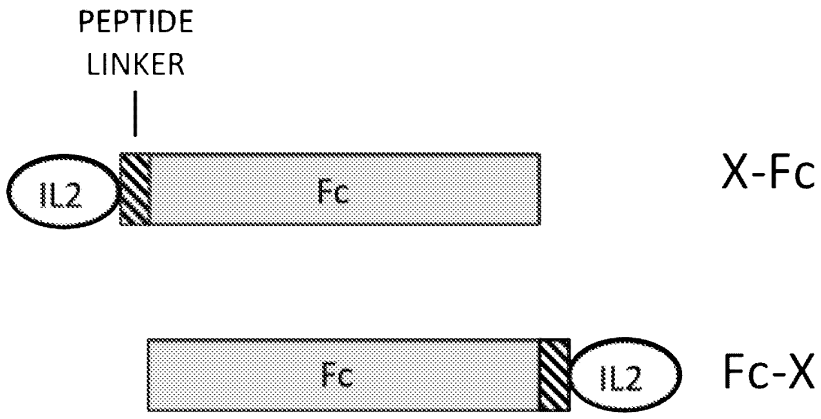

FIG. 2

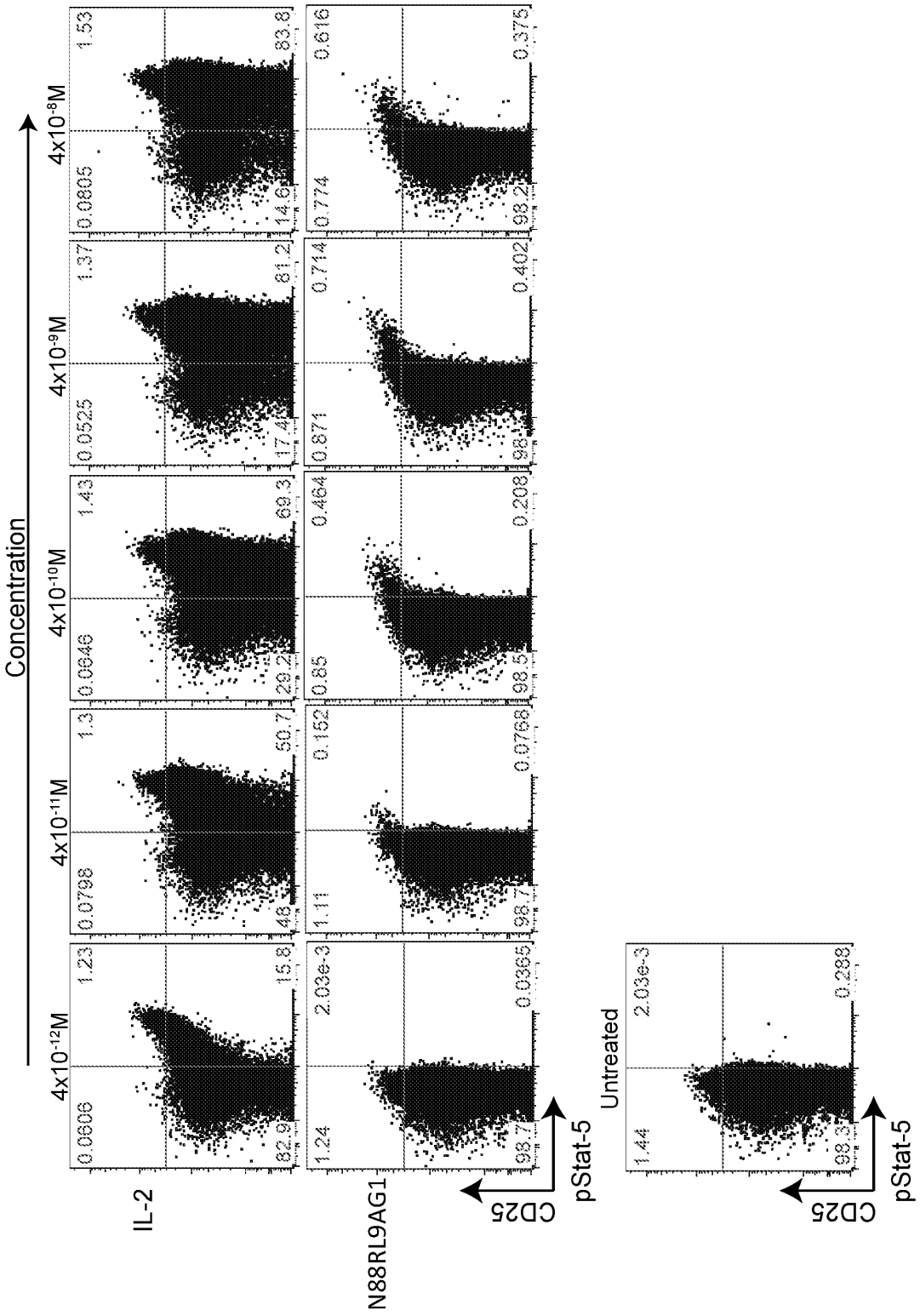
Concentration
4x10-12M
4x10-11M
4x10-10M
4x10-9M
4x10-8M
IL-2
N88RL9AG1
CD25
pStat-5
Untreated
0.0606
1.23
15.8
82.9
0.0798
1.3
50.7
48
0.0646
1.43
69.3
29.2
0.0525
1.37
81.2
17.4
0.0805
1.53
83.8
14.6
2.03e-3
0.0365
98.7
1.24
1.11
0.152
0.0768
98.7
0.85
0.464
0.208
98.5
0.871
0.714
0.402
98.1
0.774
0.616
0.375
98.2
1.44
2.03e-3
0.288
98.3

FIG. 3A

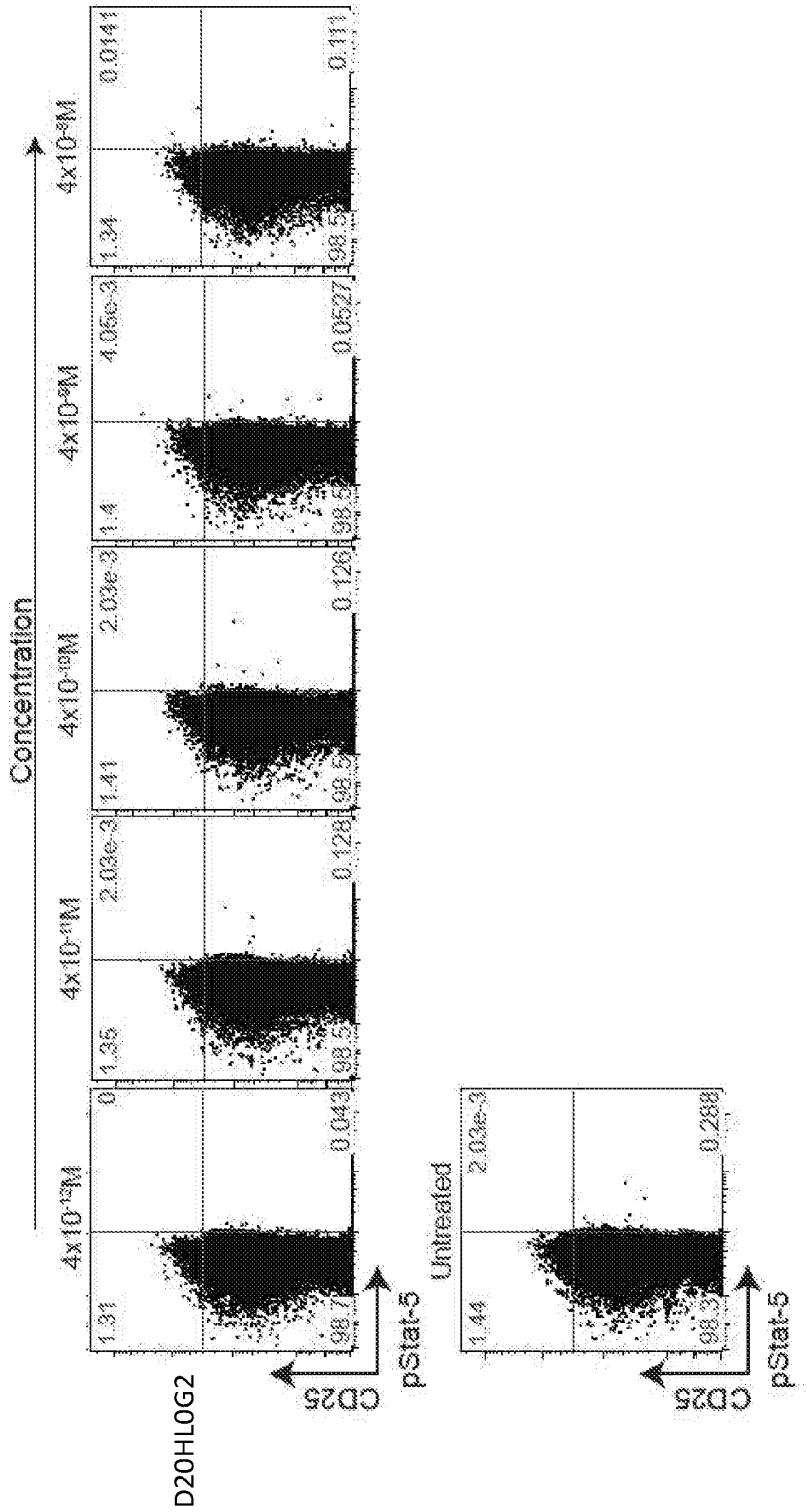
Concentration
4x10⁻¹²M
4x10⁻¹¹M
4x10⁻¹⁰M
4x10⁻⁹M
4x10⁻⁸M
Untreated
D20HL0G2
CD25
pStat-5
1.31
0
0.043
99.7
1.35
2.03e-3
0.128
98.5
1.41
2.03e-3
0.126
98.5
1.4
4.05e-3
0.0527
98.5
1.34
0.0141
0.111
98.5
1.44
2.03e-3
0.288
98.3

FIG. 3B

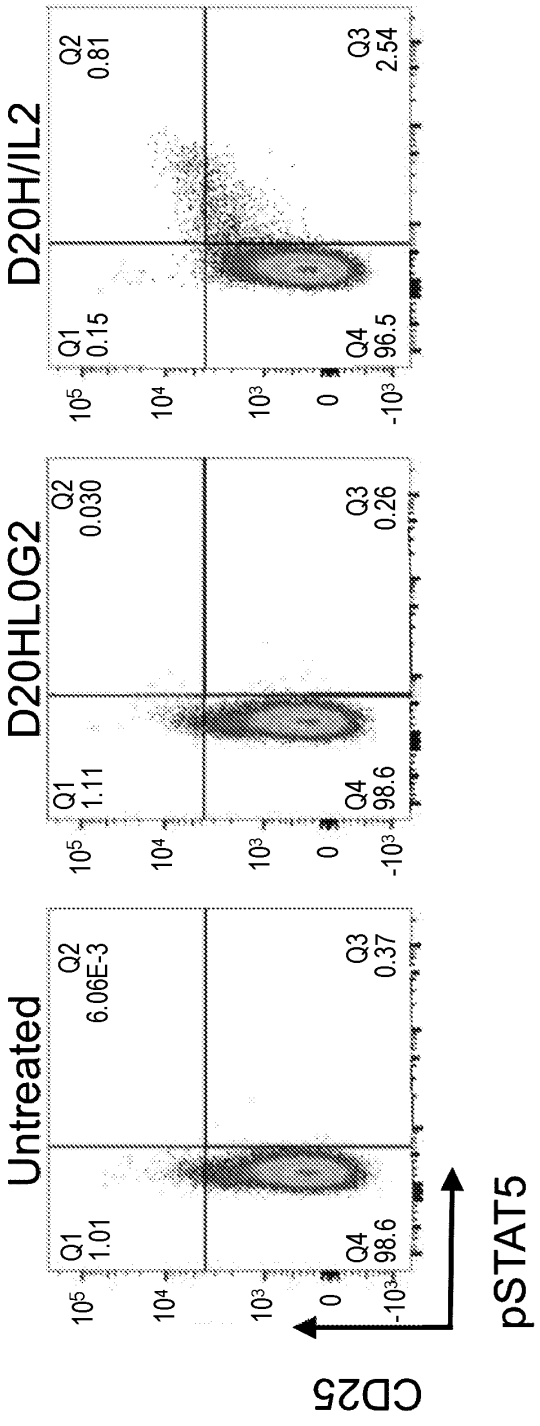
Untreated
D20HL0G2
D20H/IL2
Q1 1.01
Q2 6.06E-3
Q3 0.37
Q4 98.6
Q1 1.11
Q2 0.030
Q3 0.26
Q4 98.6
Q1 0.15
Q2 0.81
Q3 2.54
Q4 96.5
10^5
10^4
10^3
0
-10^3
CD25
pSTAT5

FIG. 3C

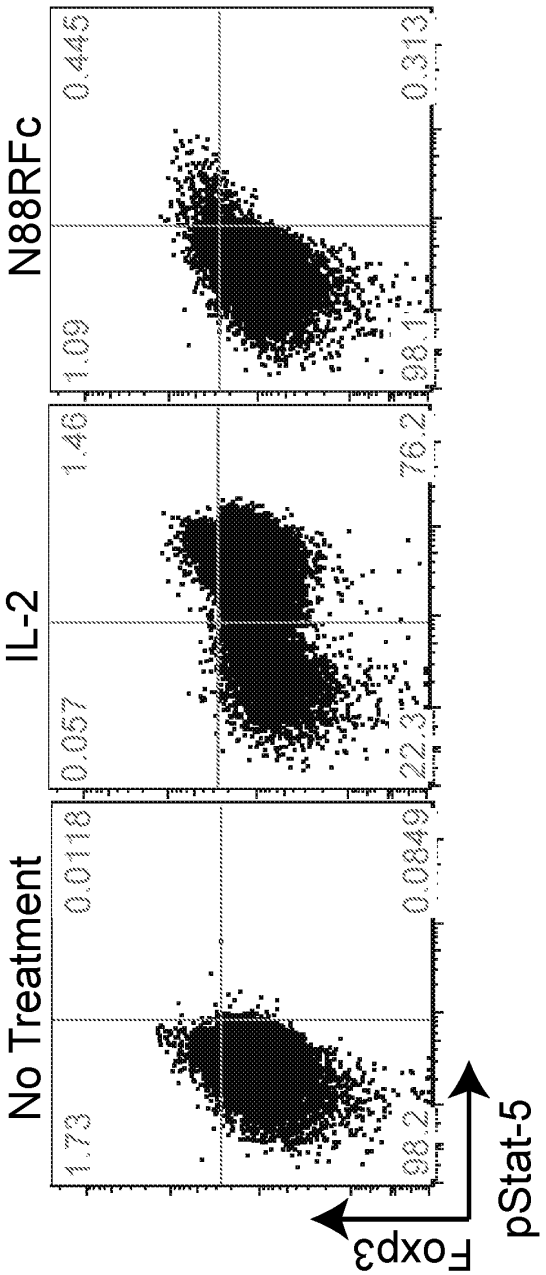
No Treatment
IL-2
N88RFc
1.73
0.0118
0.0849
98.2
1.46
0.057
79.2
22.3
1.09
0.445
98.4
0.313
Foxp3
pStat-5

FIG. 4

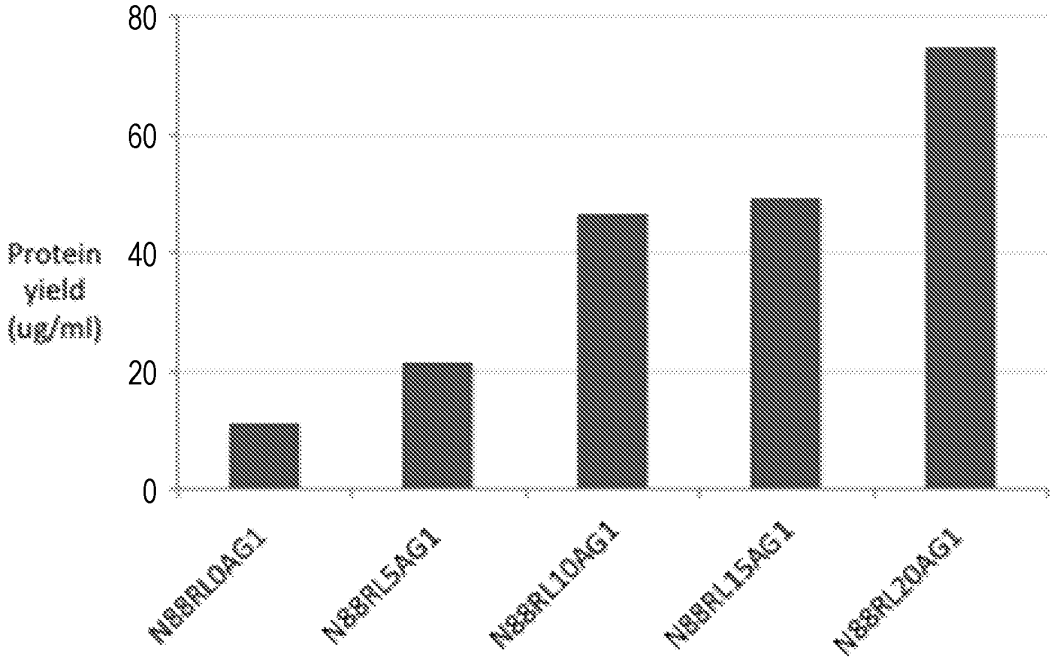
80
60
40
20
0
Protein yield (ug/ml)
N88RL0AG1
N88RL5AG1
N88RL10AG1
N88RL15AG1
N88RL20AG1

FIG. 5A

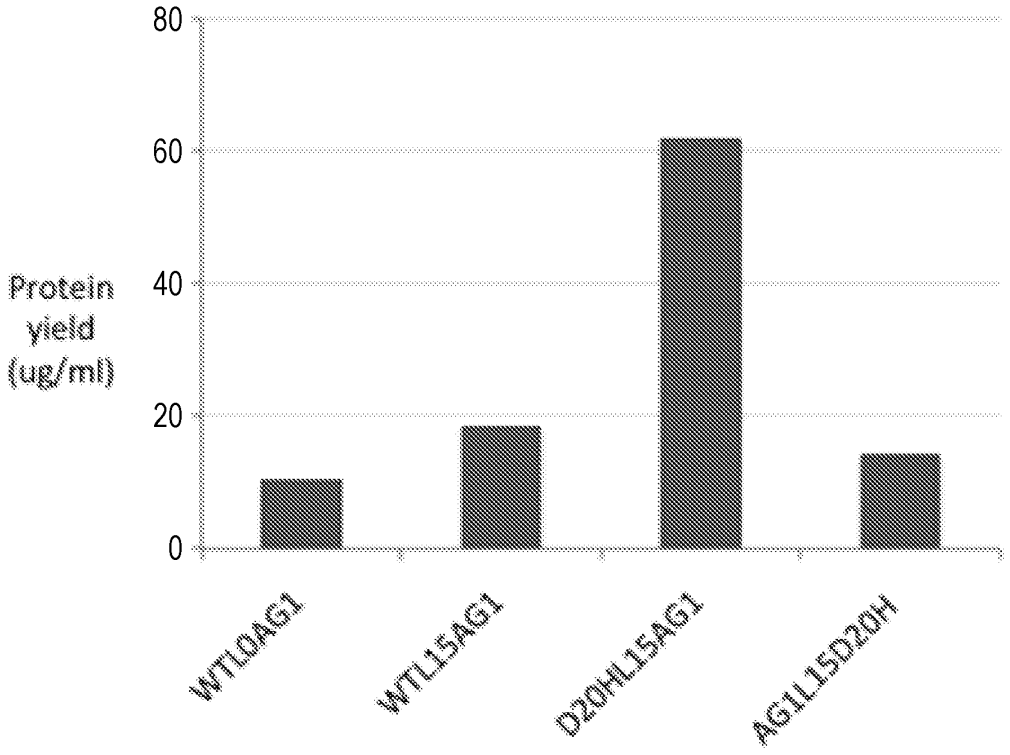
80
60
40
20
0
Protein yield (ug/ml)
WTL0AG1
WTL15AG1
D20HL15AG1
AG1L15D20H

FIG. 5B

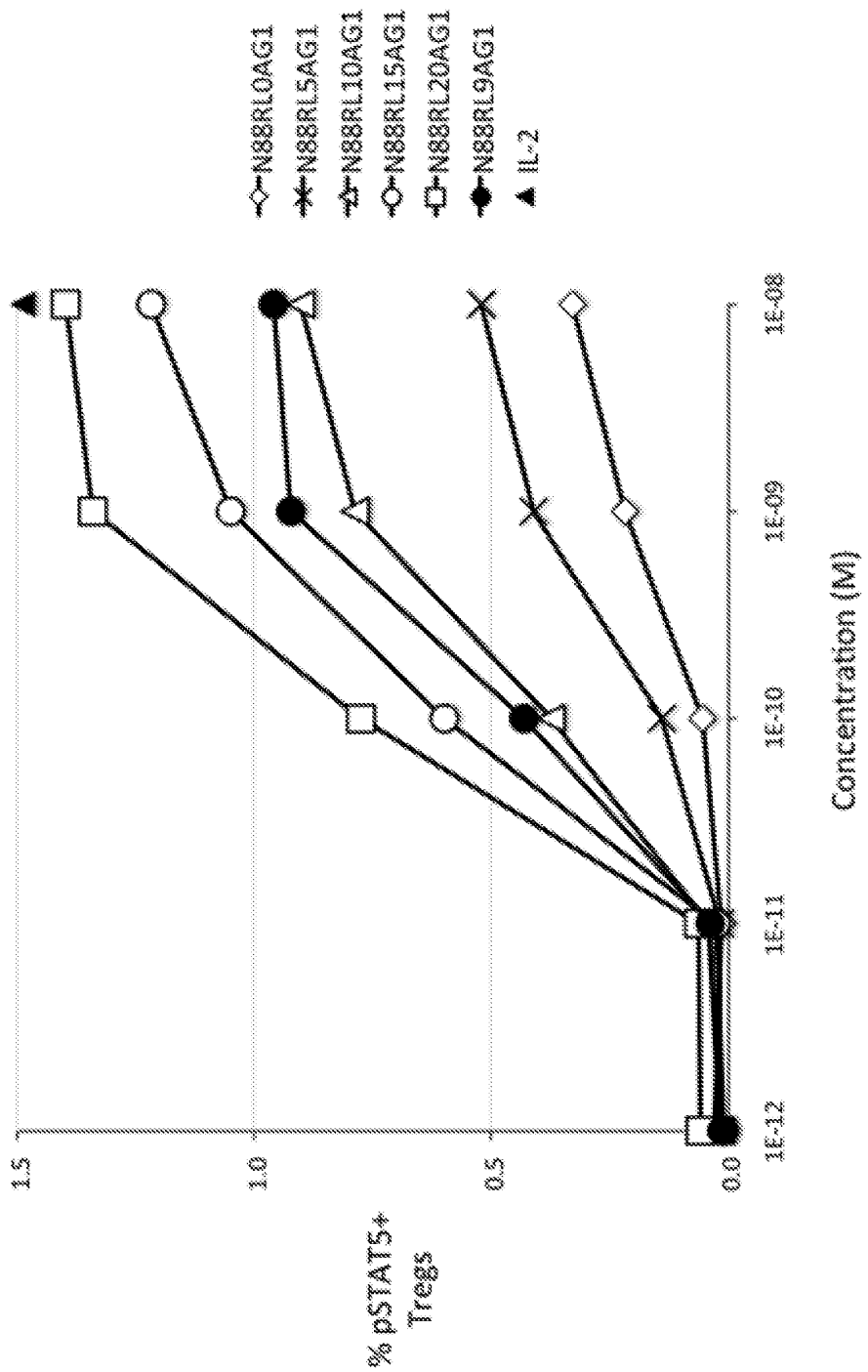
N88RL0AG1
N88RL5AG1
N88RL10AG1
N88RL15AG1
N88RL20AG1
N88RL9AG1
IL-2
1.5
1.0
0.5
0.0
% pSTAT5+ Tregs
1E-12
1E-11
1E-10
1E-09
1E-08
Concentration (M)

FIG. 6A

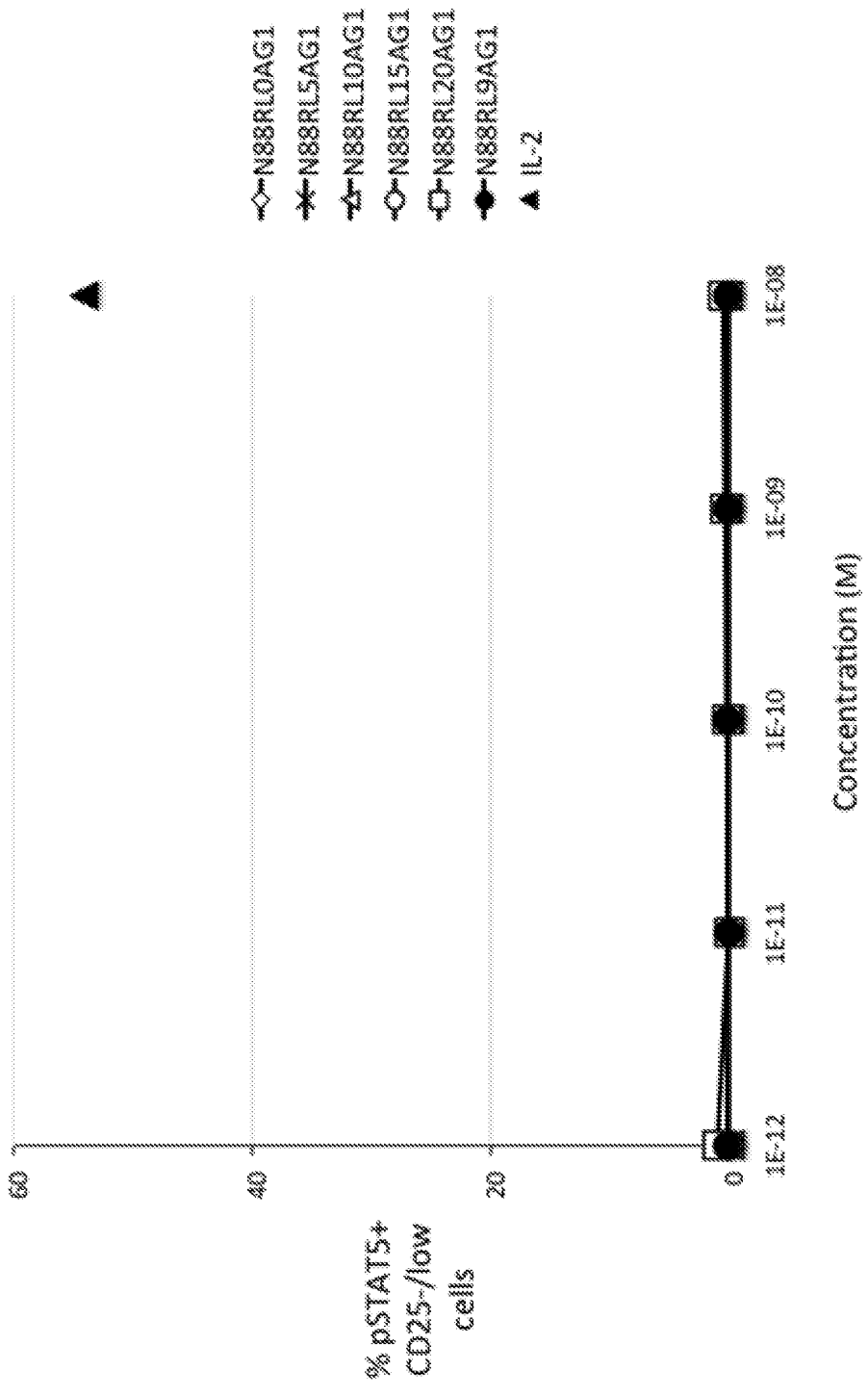
N88RL0AG1
N88RL5AG1
N88RL10AG1
N88RL15AG1
N88RL20AG1
N88RL9AG1
IL-2
% pSTAT5+ CD25-/low cells
0
20
40
60
1E-12
1E-11
1E-10
1E-09
1E-08
Concentration (M)

FIG. 6B

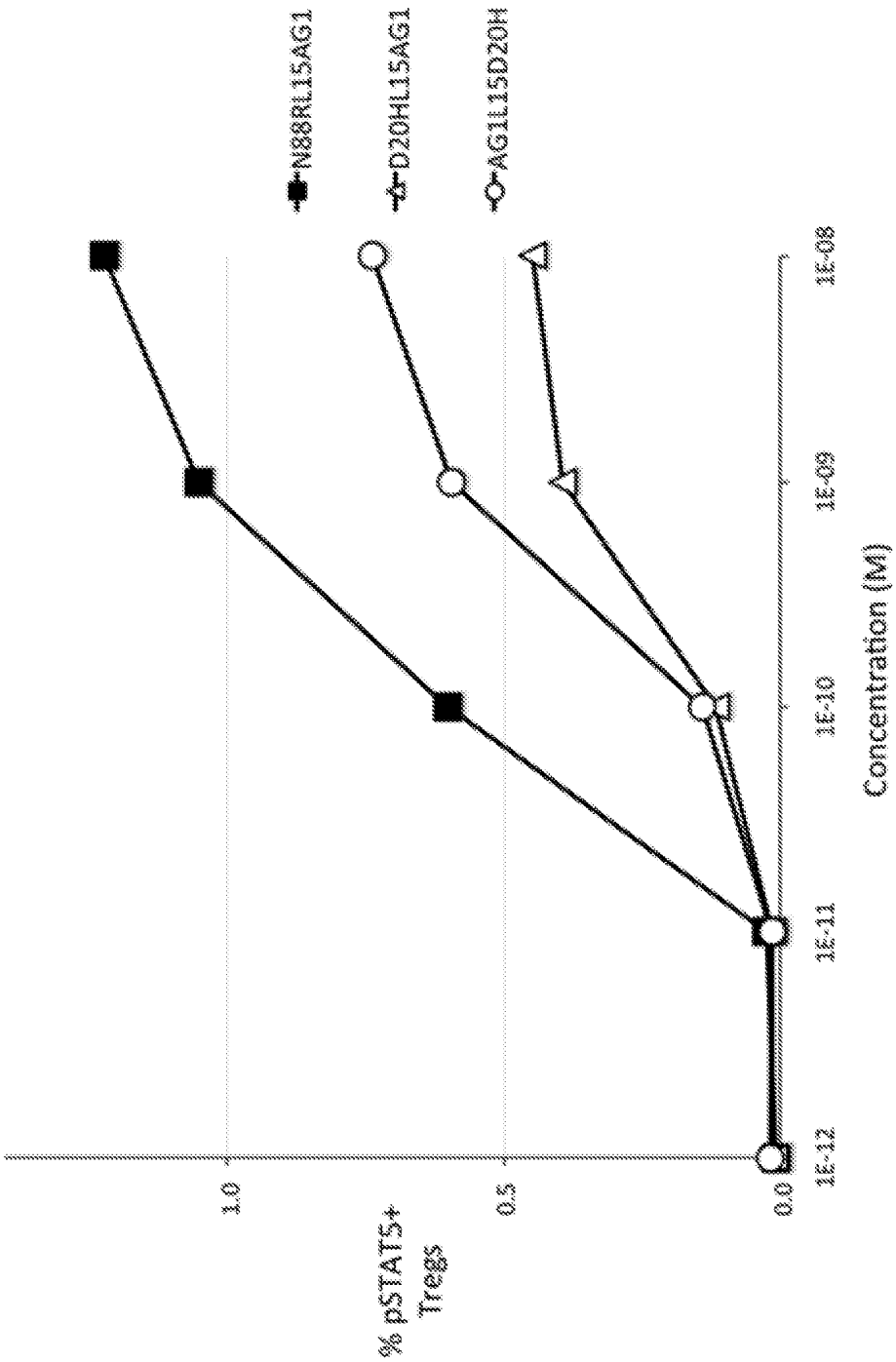
N88RL15AG1
D20HL15AG1
AG1L15D20H
% pSTAT5+ Tregs
1.0
0.5
0.0
1E-12
1E-11
1E-10
1E-09
1E-08
Concentration (M)

FIG. 7

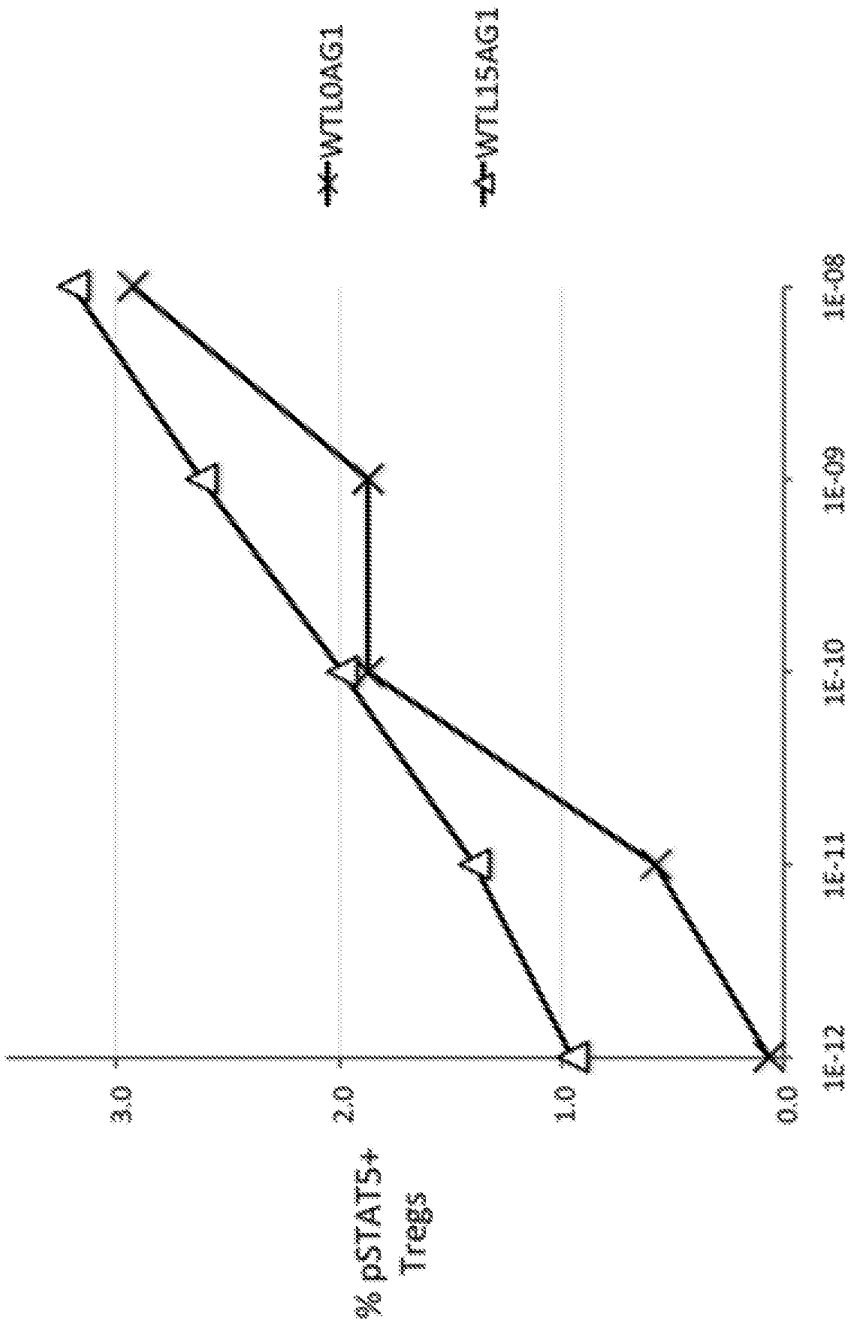
WTL0AG1
WTL15AG1
% pSTAT5+ Tregs
3.0
2.0
1.0
0.0
1E-12
1E-11
1E-10
1E-09
1E-08
Concentration (M)

FIG. 8A

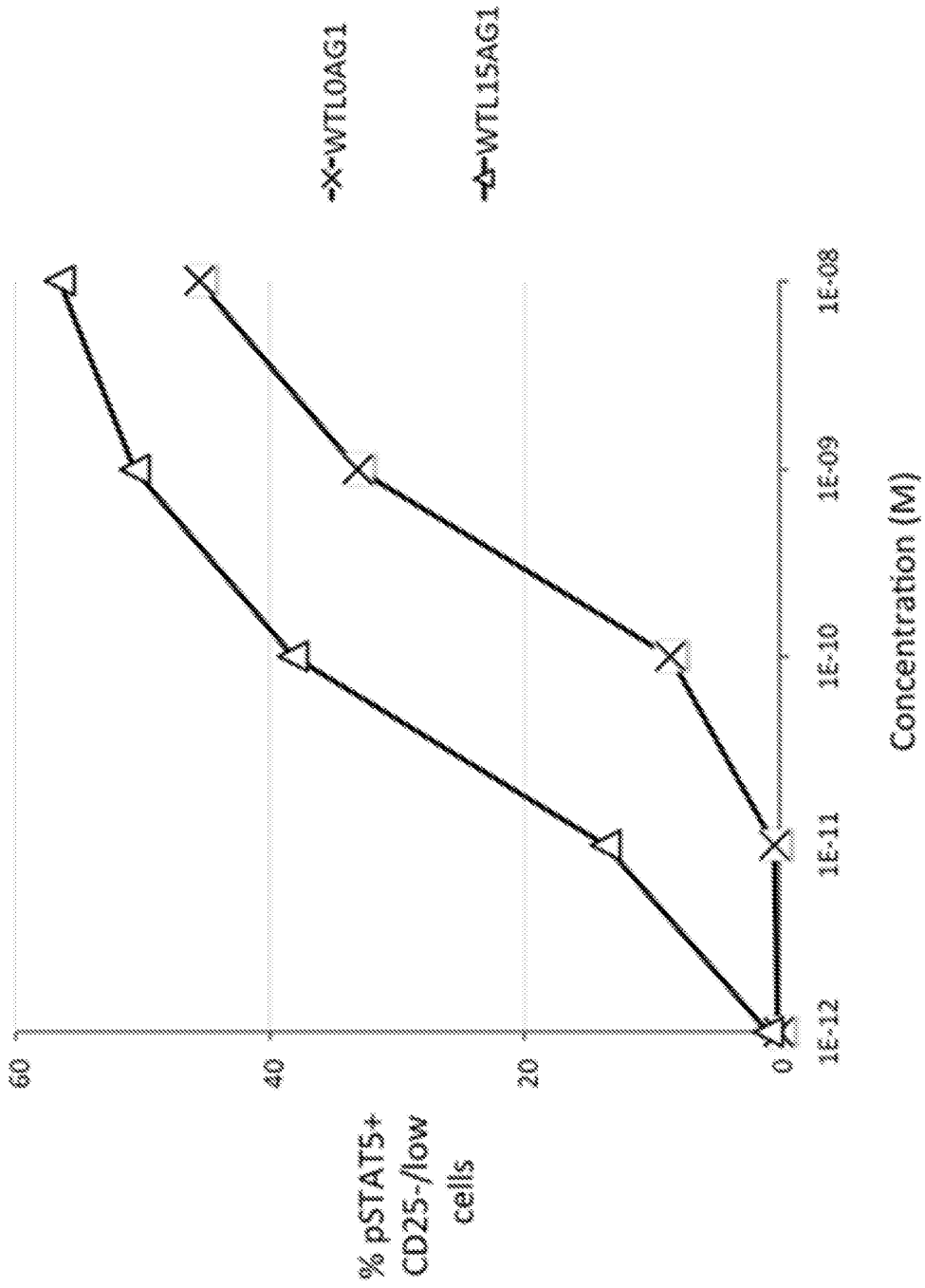
-X-WTL0AG1
-△-WTL1SAG1
% pSTAT5+ CD25-/low cells
60
40
20
0
1E-12
1E-11
1E-10
1E-09
1E-08
Concentration (M)

FIG. 8B

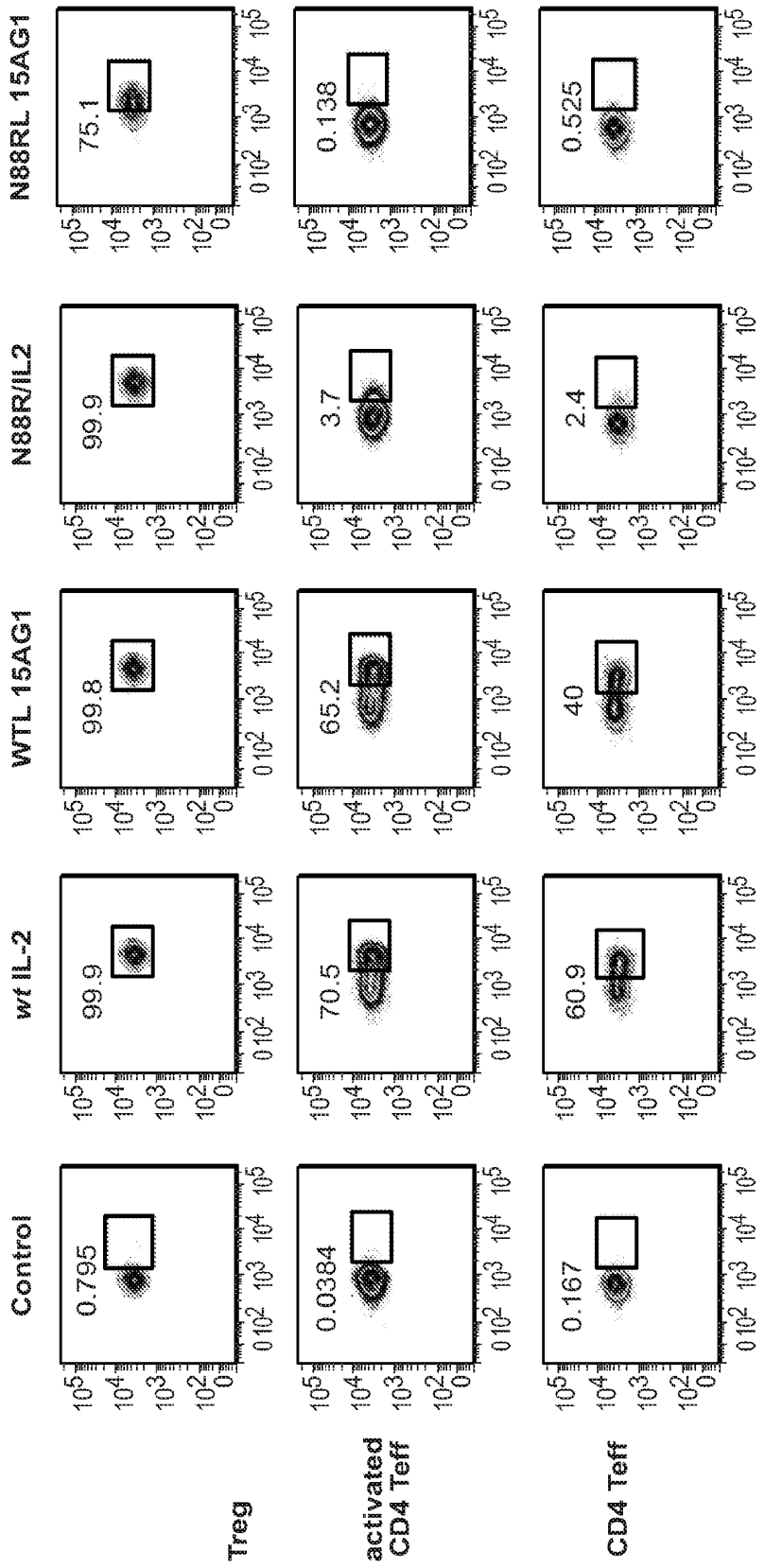
Control
wt IL-2
WTL 15AG1
N88R/IL2
N88RL 15AG1
Treg
activated CD4 Teff
CD4 Teff
0.795
99.9
99.8
99.9
75.1
0.0384
70.5
65.2
3.7
0.138
0.167
60.9
40
2.4
0.525

FIG. 9

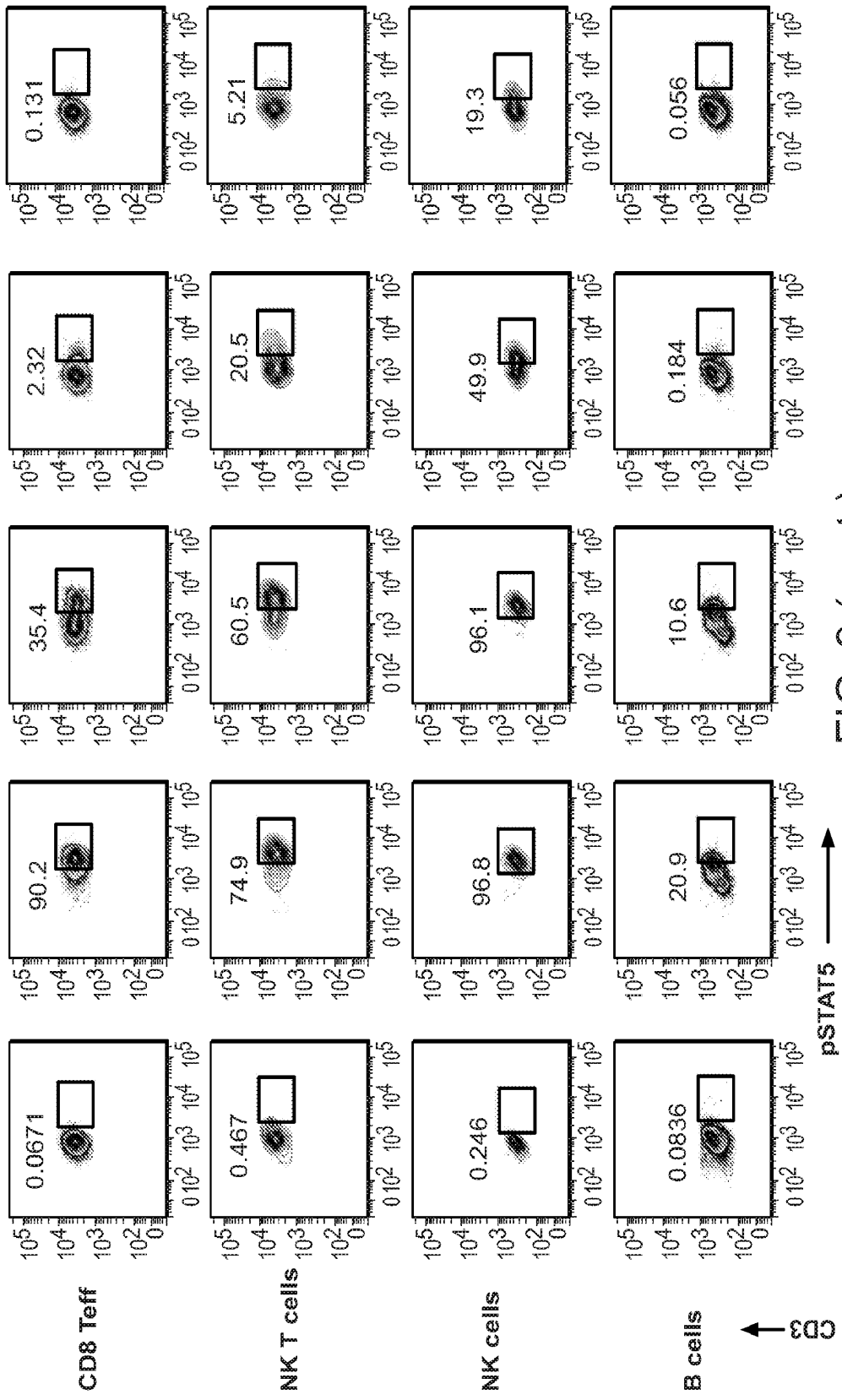
CD8 Teff
NK T cells
NK cells
B cells
CD3
pSTAT5
0.0671
90.2
35.4
2.32
0.131
0.467
74.9
60.5
20.5
5.21
0.246
96.8
96.1
49.9
19.3
0.0836
20.9
10.6
0.184
0.056

FIG. 9 (cont.)