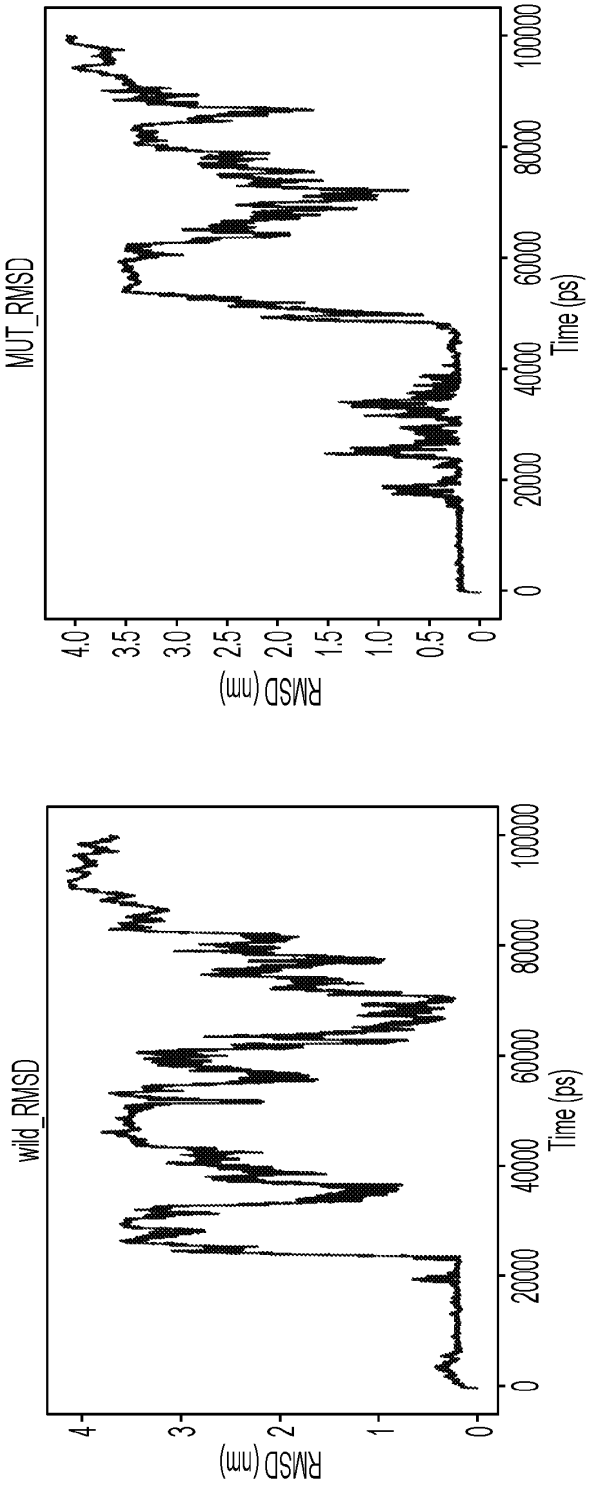


FIGURE 1

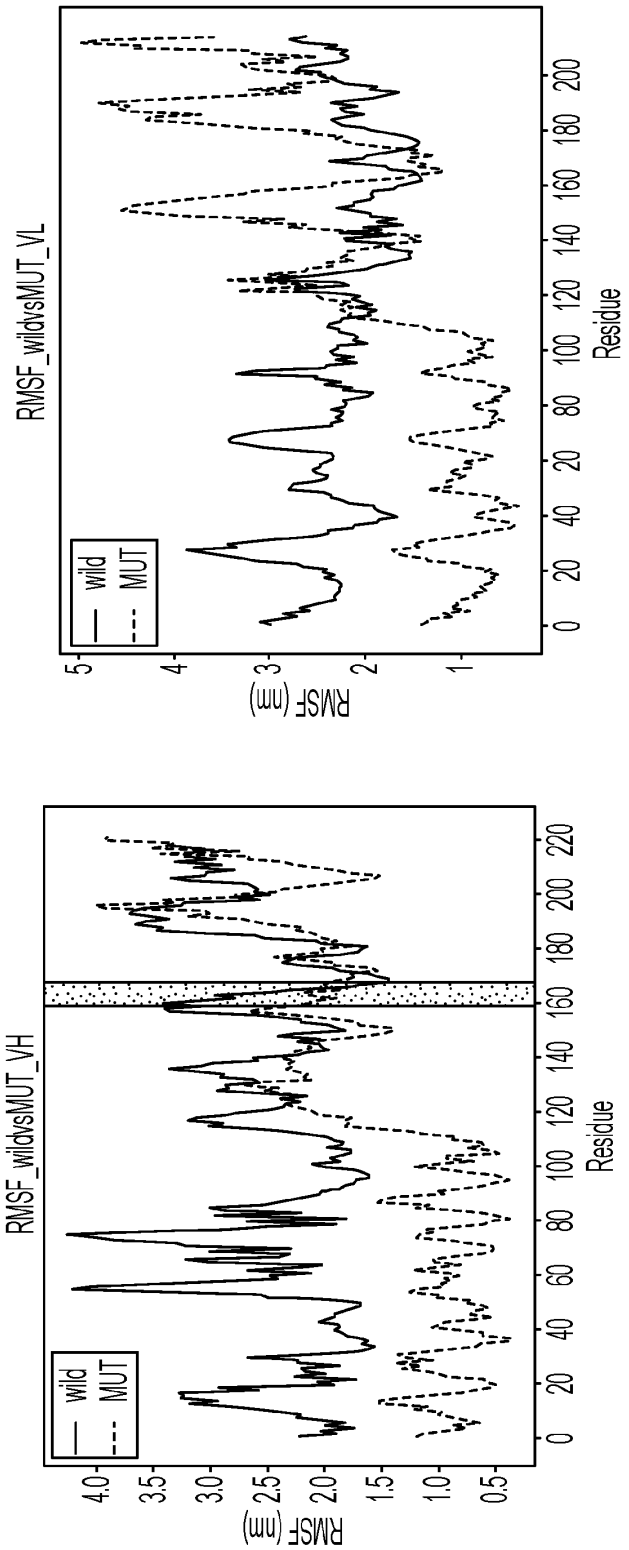

RMSF_wildvsMUT_VH
wild
MUT
RMSF (nm)
Residue
RMSF_wildvsMUT_VL
wild
MUT
RMSF (nm)
Residue

FIGURE 2

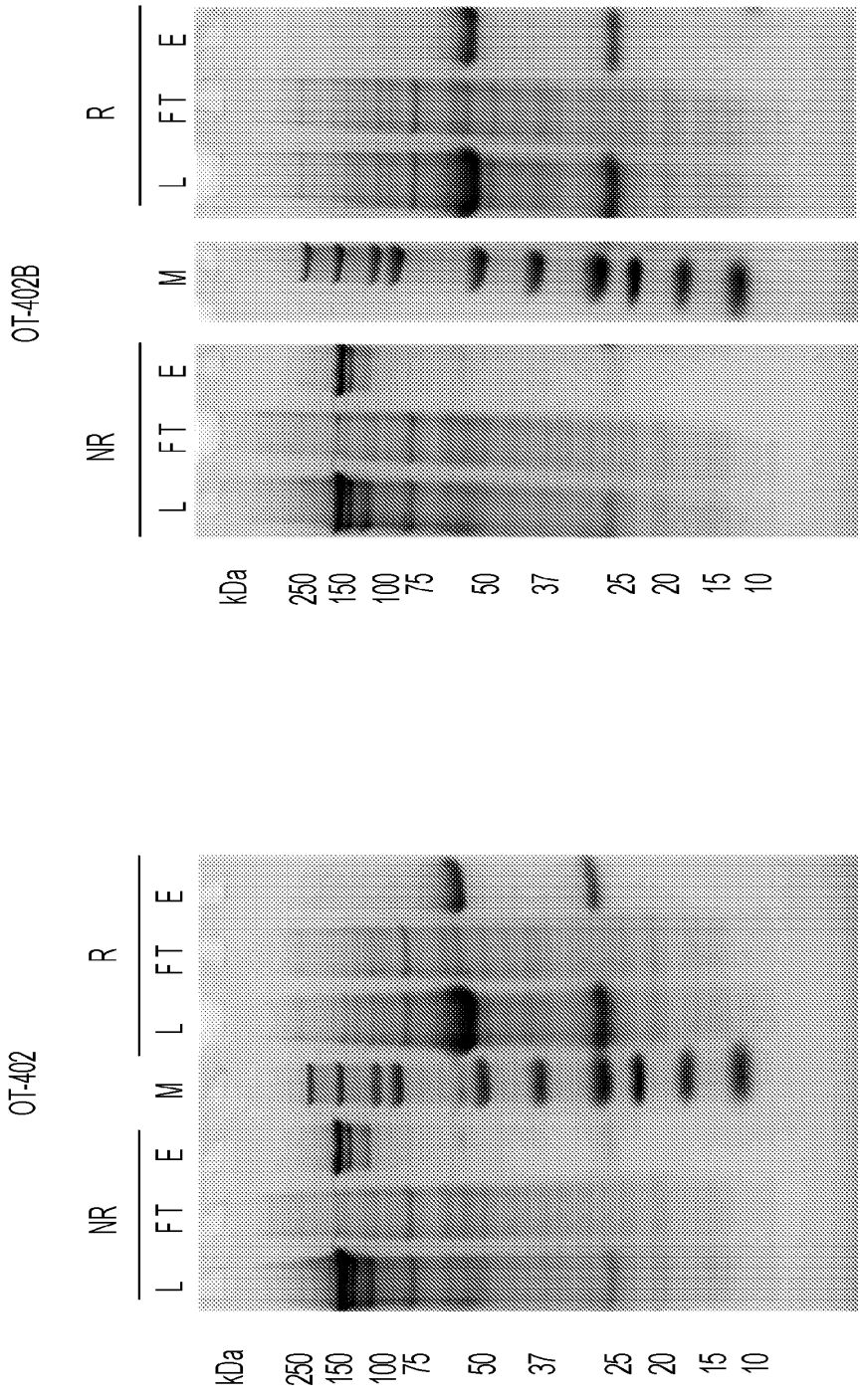

OT-402
NR
L
FT
E
M
R
L
FT
E
kDa
250
150
100
75
50
37
25
20
15
10
OT-402B
NR
L
FT
E
M
R
L
FT
E
kDa
250
150
100
75
50
37
25
20
15
10

FIGURE 3

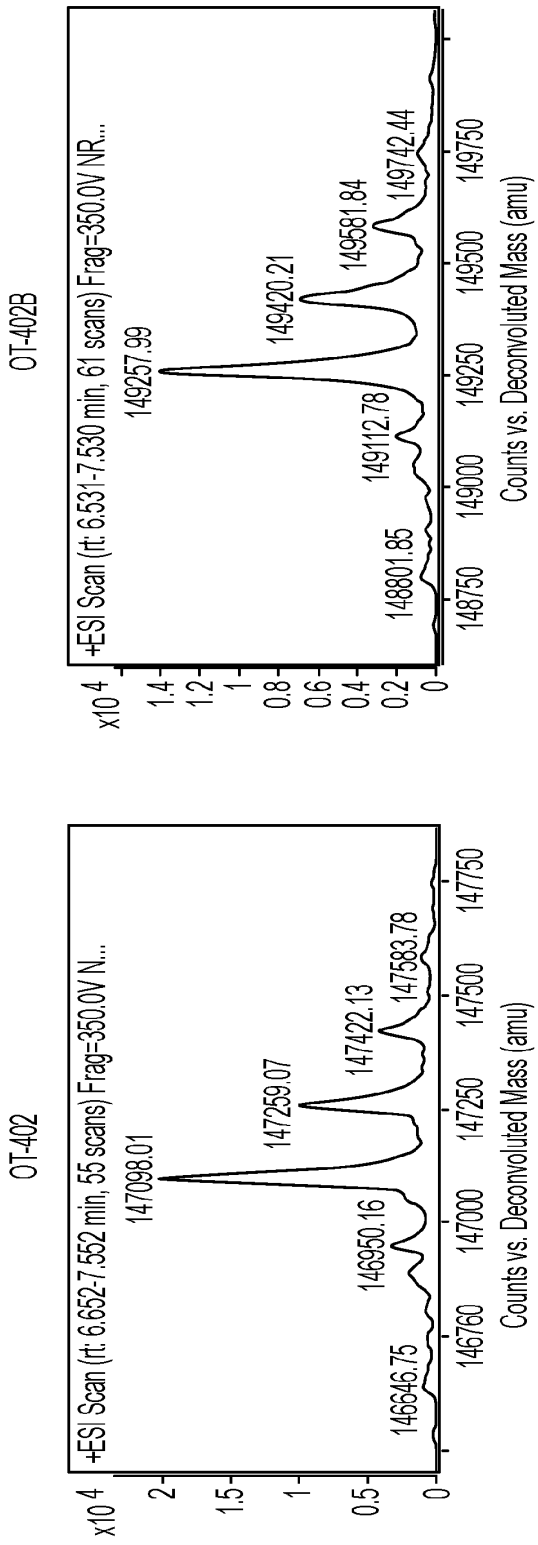

OT-402
+ESI Scan (rt: 6.652-7.552 min, 55 scans) Frag=350.0V N...
147098.01
147259.07
147422.13
147583.78
146950.16
146646.75
x10 4
2
1.5
1
0.5
0
146760
147000
147250
147500
147750
Counts vs. Deconvoluted Mass (amu)
OT-402B
+ESI Scan (rt: 6.531-7.530 min, 61 scans) Frag=350.0V NR...
149257.99
149420.21
149581.84
149742.44
149112.78
148801.85
x10 4
1.4
1.2
1
0.8
0.6
0.4
0.2
0
148750
149000
149250
149500
149750
Counts vs. Deconvoluted Mass (amu)

FIGURE 4

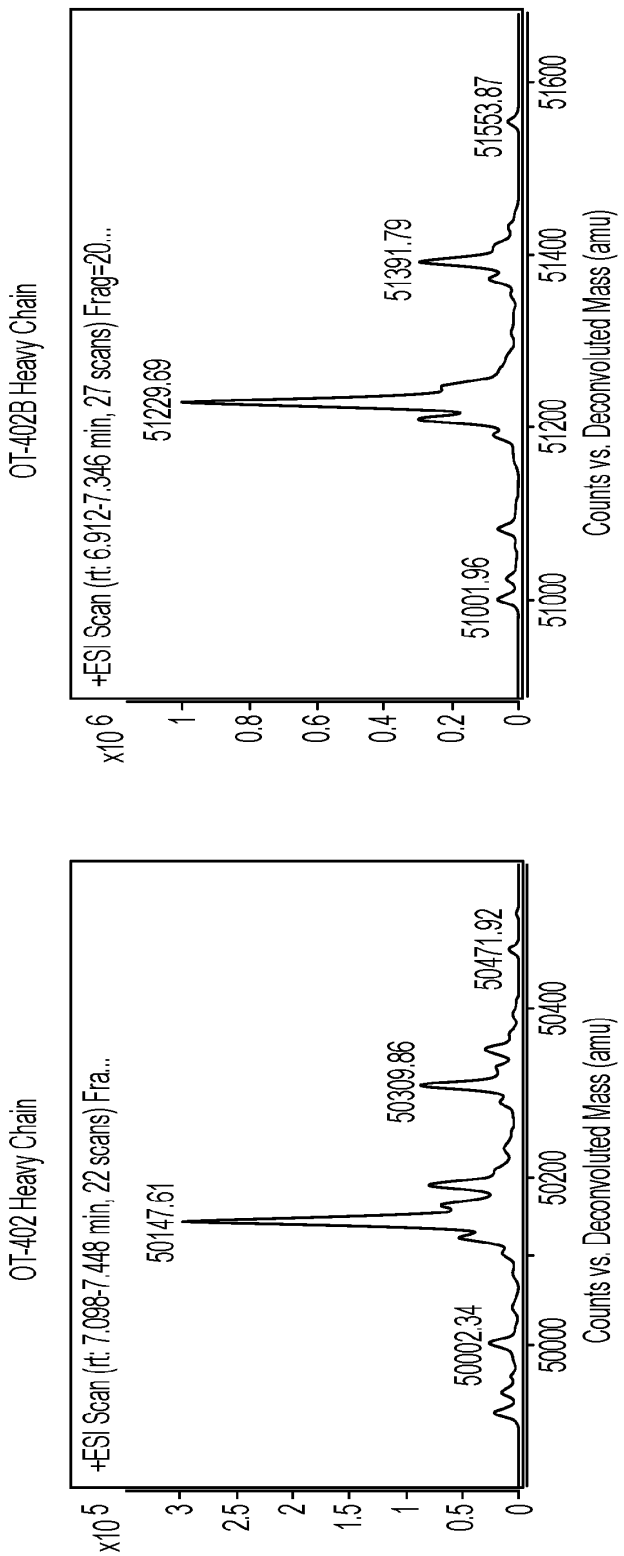

OT-402 Heavy Chain
+ESI Scan (rt: 7.098-7.448 min, 22 scans) Fra...
x10 5
3
2.5
2
1.5
1
0.5
0
50147.61
50002.34
50309.86
50471.92
50000
50200
50400
Counts vs. Deconvoluted Mass (amu)
OT-402B Heavy Chain
+ESI Scan (rt: 6.912-7.346 min, 27 scans) Frag=20...
x10 6
1
0.8
0.6
0.4
0.2
0
51229.69
51001.96
51391.79
51553.87
51000
51200
51400
51600
Counts vs. Deconvoluted Mass (amu)

FIGURE 5A

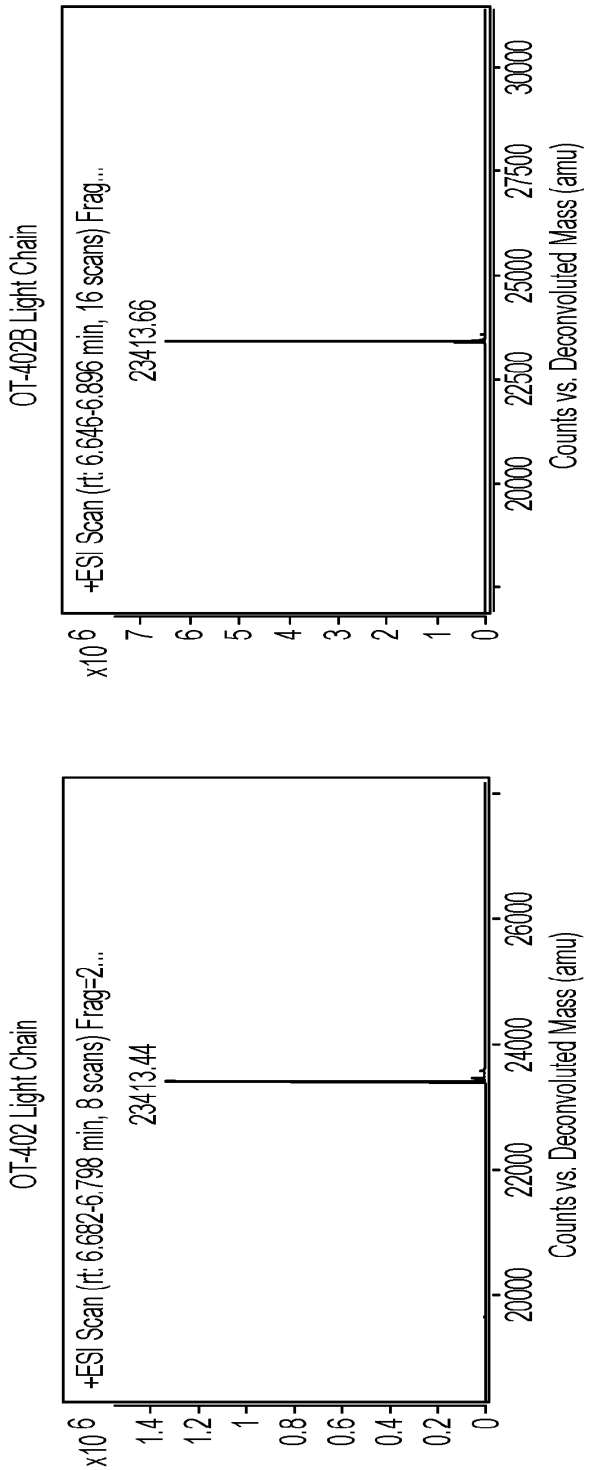

OT-402B Light Chain
+ESI Scan (rt: 6.646-6.896 min, 16 scans) Frag...
23413.66
x10 6
7
6
5
4
3
2
1
0
20000
22500
25000
27500
30000
Counts vs. Deconvoluted Mass (amu)
OT-402 Light Chain
+ESI Scan (rt: 6.682-6.798 min, 8 scans) Frag=2...
23413.44
x10 6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
20000
22000
24000
26000
Counts vs. Deconvoluted Mass (amu)

FIGURE 5B

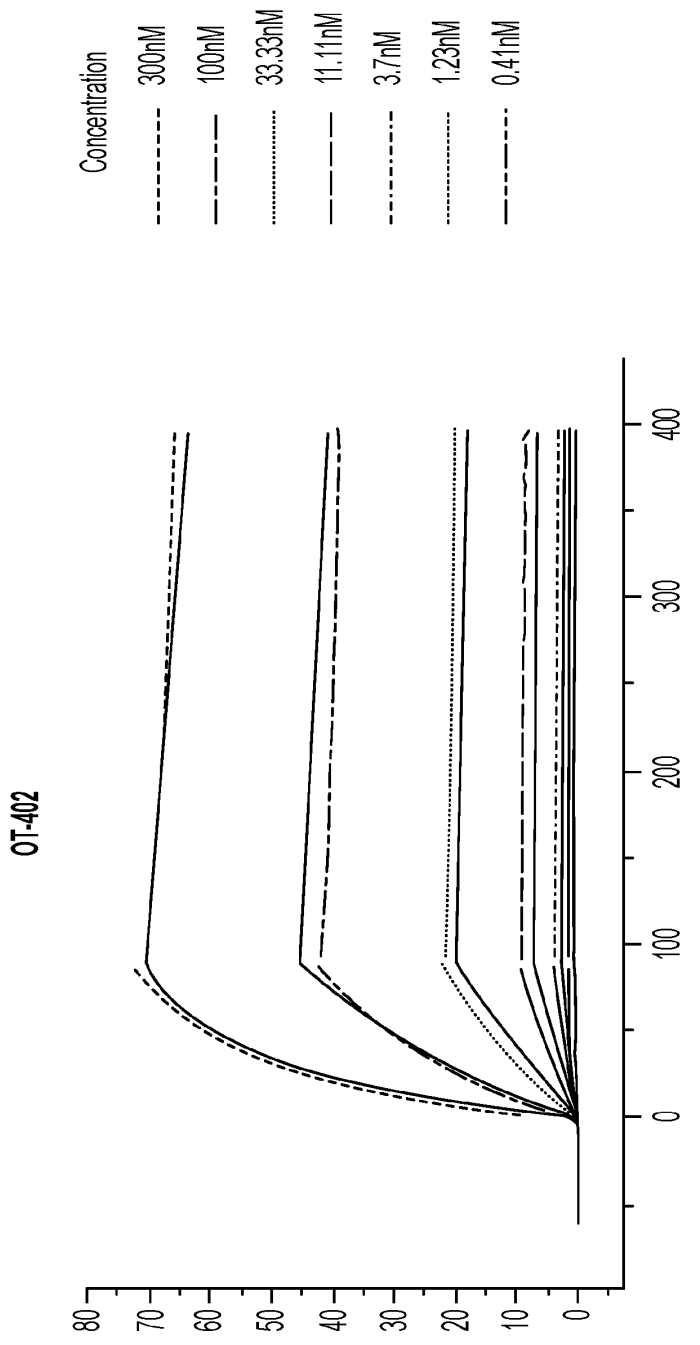

Concentration
300nM
100nM
33.33nM
11.11nM
3.7nM
1.23nM
0.41nM
OT-402
80
70
60
50
40
30
20
10
0
0
100
200
300
400

FIGURE 6A

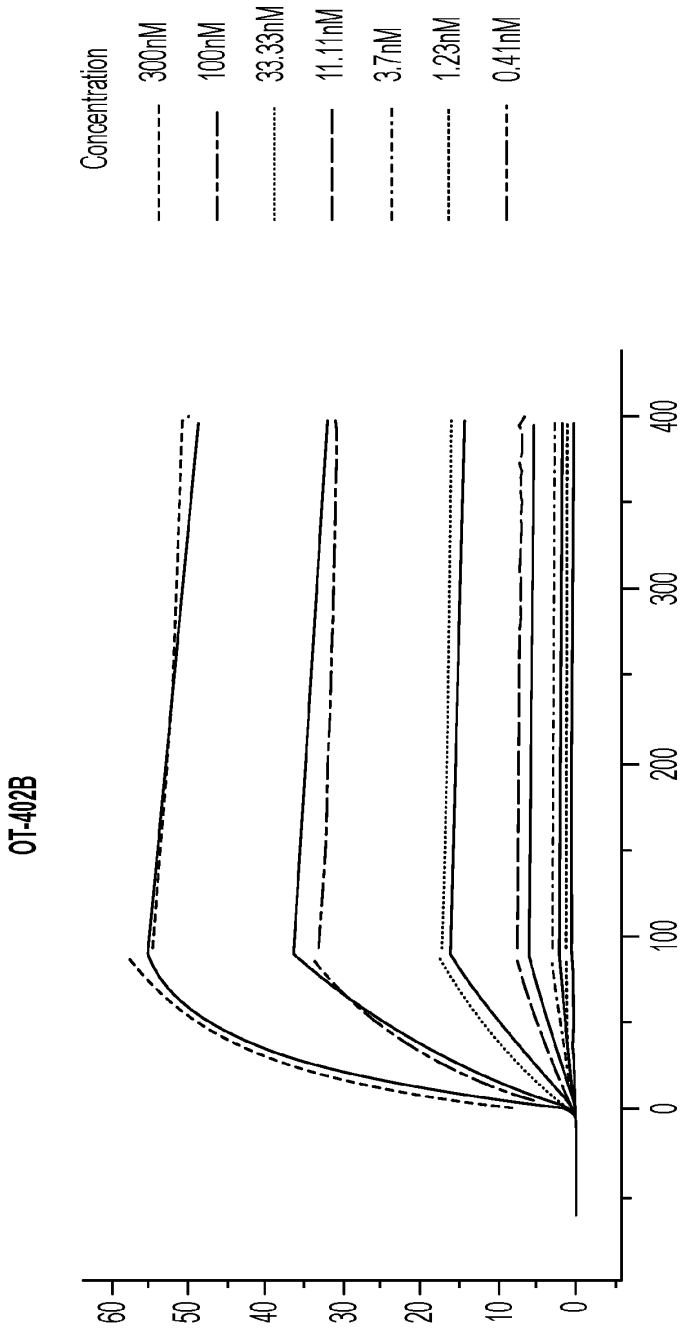

Concentration
300nM
100nM
33.33nM
11.11nM
3.7nM
1.23nM
0.41nM
OT-402B
60
50
40
30
20
10
0
0
100
200
300
400

FIGURE 6B

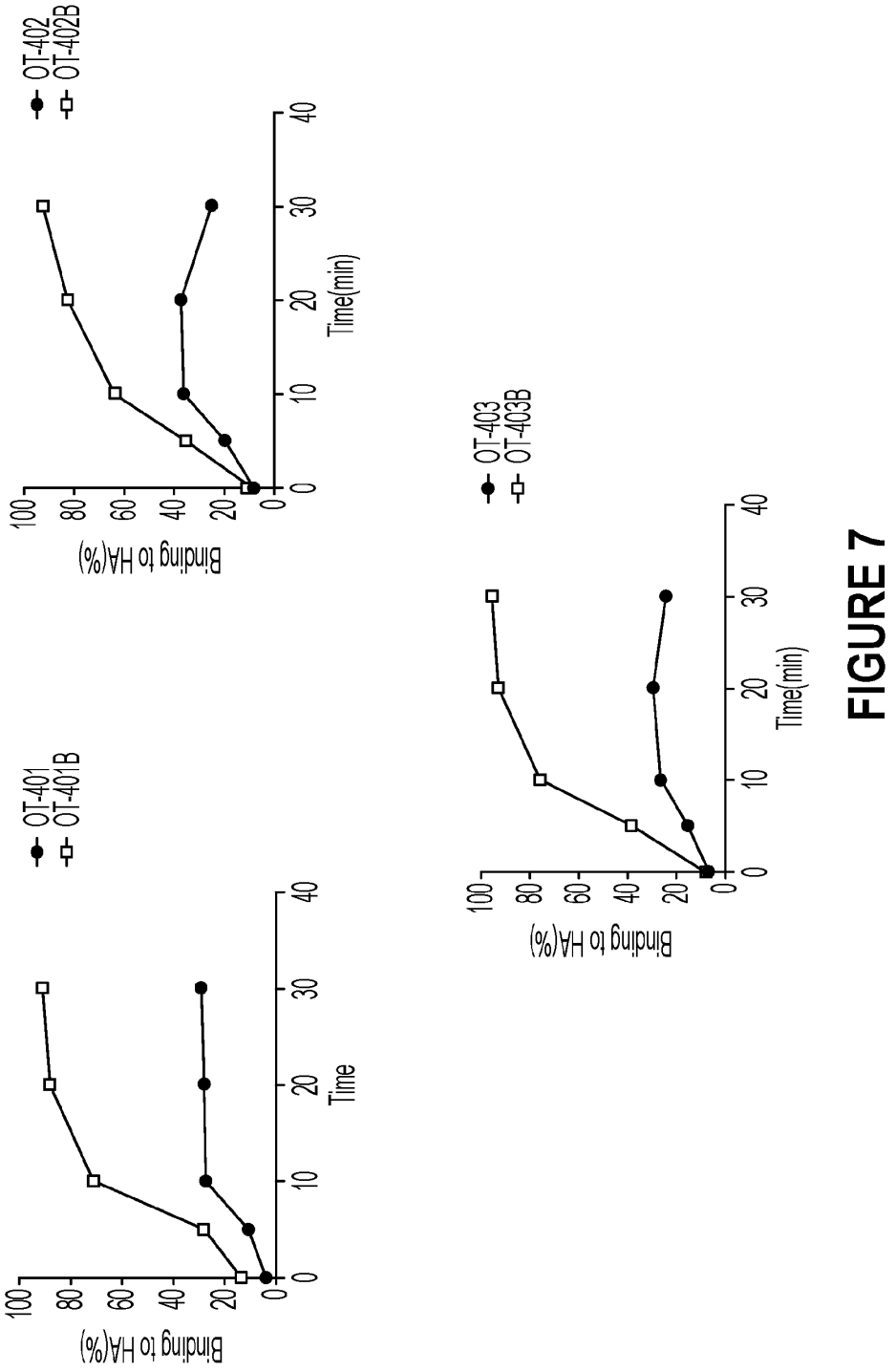

OT-401
OT-401B
Binding to HA(%)
Time
OT-402
OT-402B
Time(min)
OT-403
OT-403B

FIGURE 7

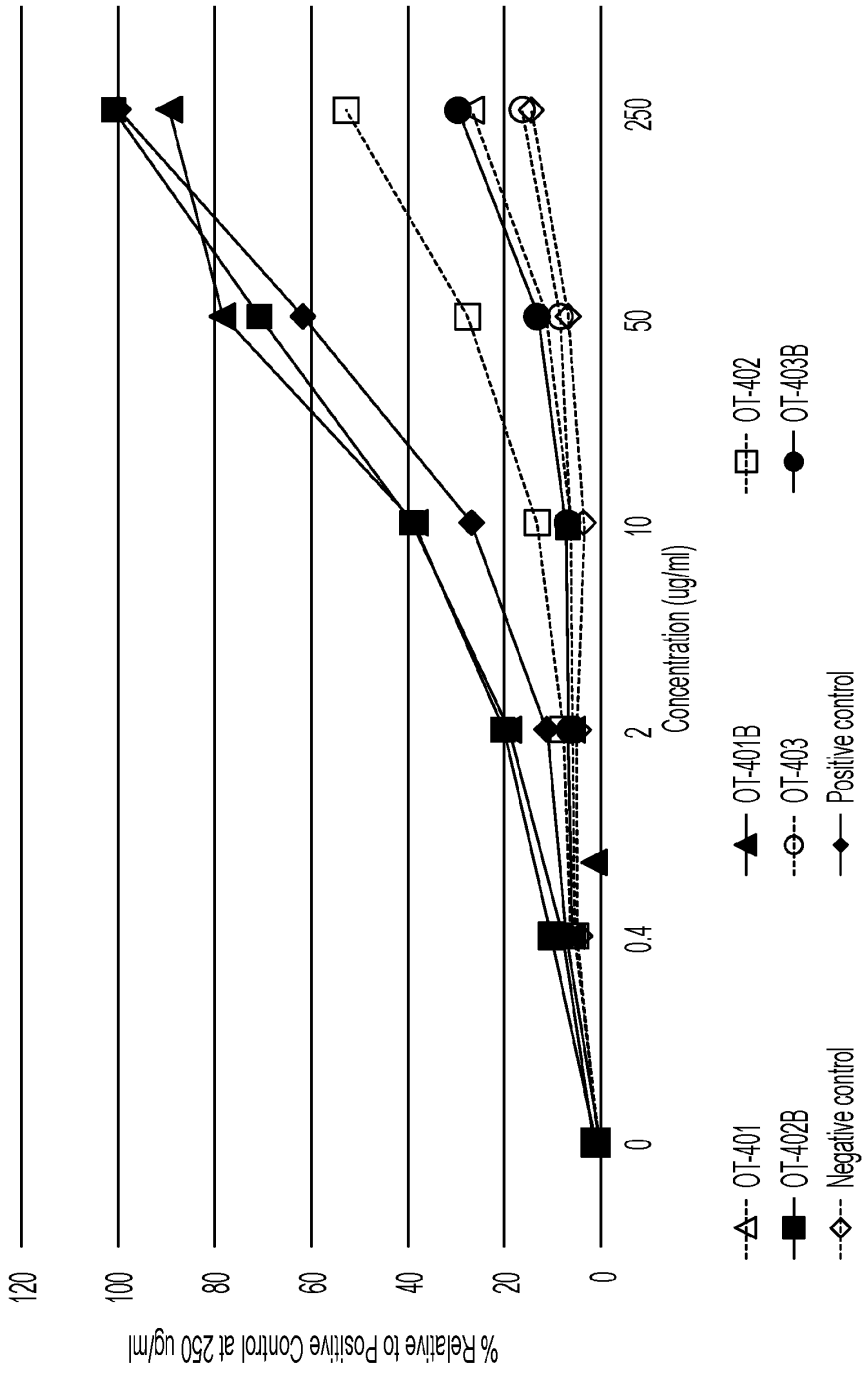

% Relative to Positive Control at 250 ug/ml
120
100
80
60
40
20
0
0
0.4
2
10
50
250
Concentration (ug/ml)
OT-401
OT-402B
Negative control
OT-401B
OT-403
Positive control
OT-402
OT-403B

FIGURE 8A

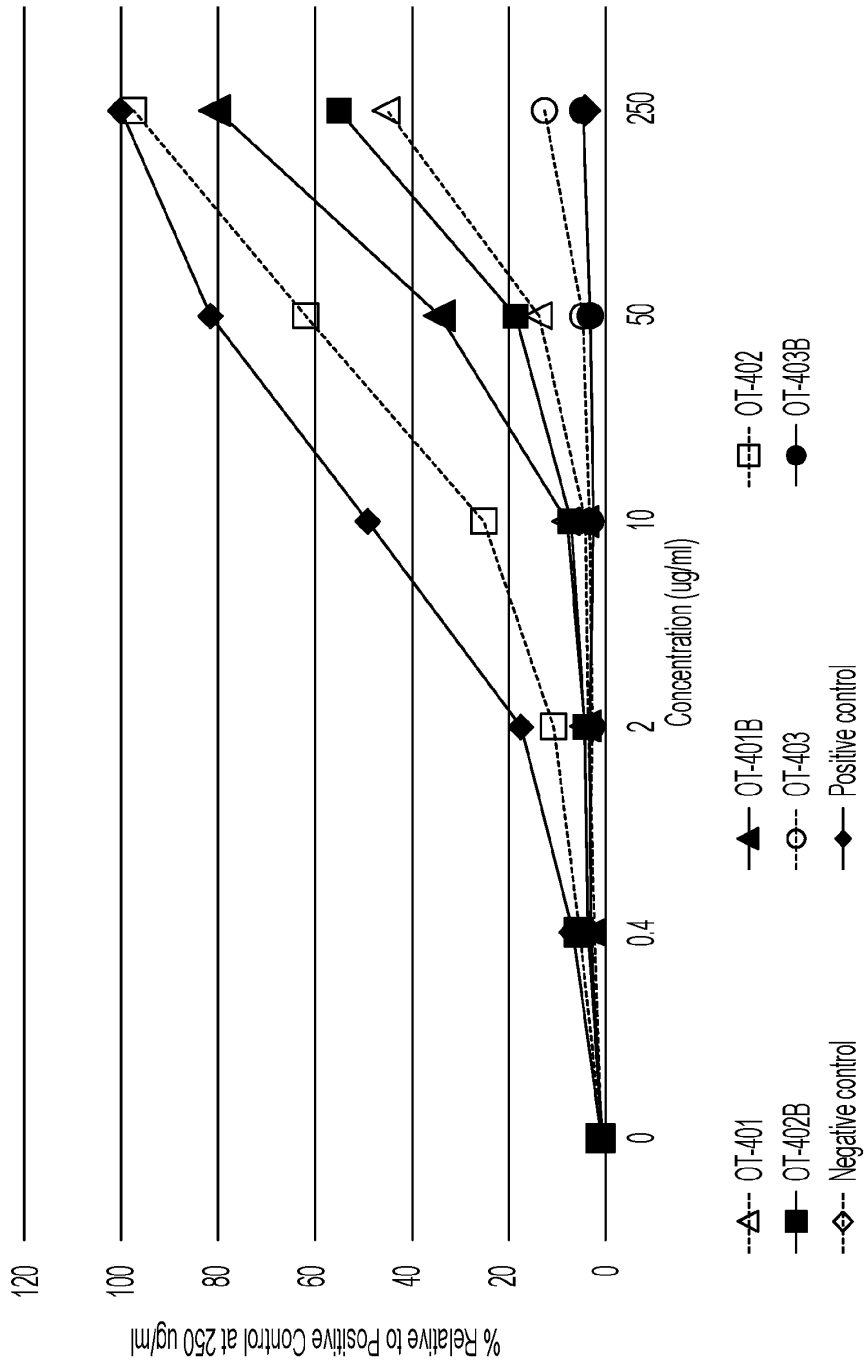

% Relative to Positive Control at 250 ug/ml
120
100
80
60
40
20
0
0
0.4
2
10
50
250
Concentration (ug/ml)
OT-401
OT-402B
Negative control
OT-401B
OT-403
Positive control
OT-402
OT-403B

FIGURE 8B

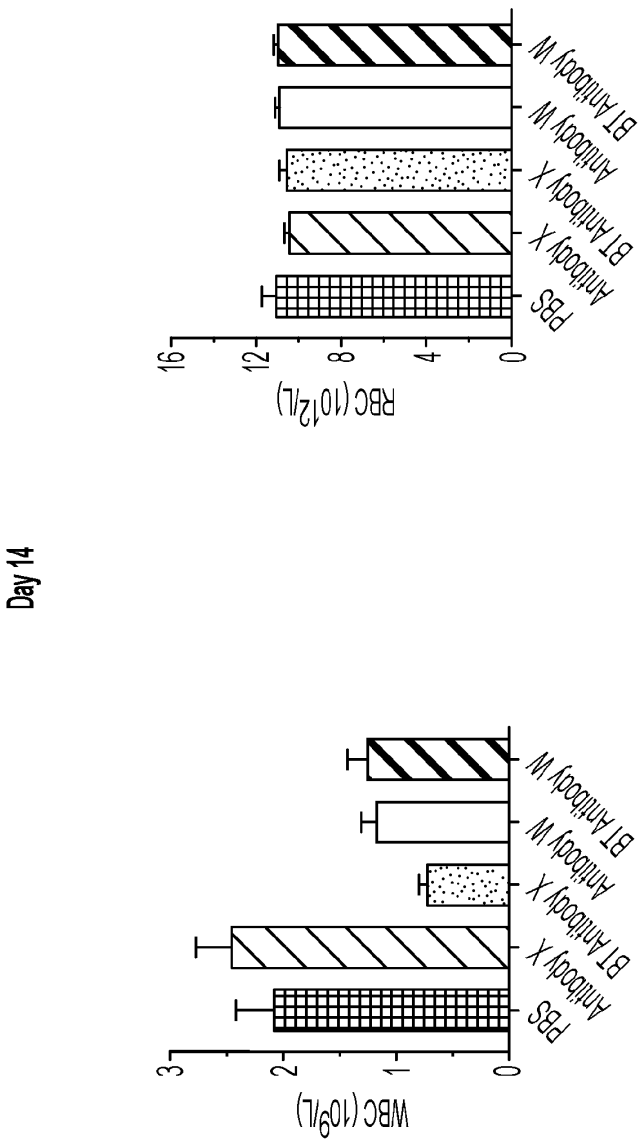

Day 14
RBC (10^{12}/L)
0
4
8
12
16
WBC (10^9/L)
0
1
2
3
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W

FIGURE 9A

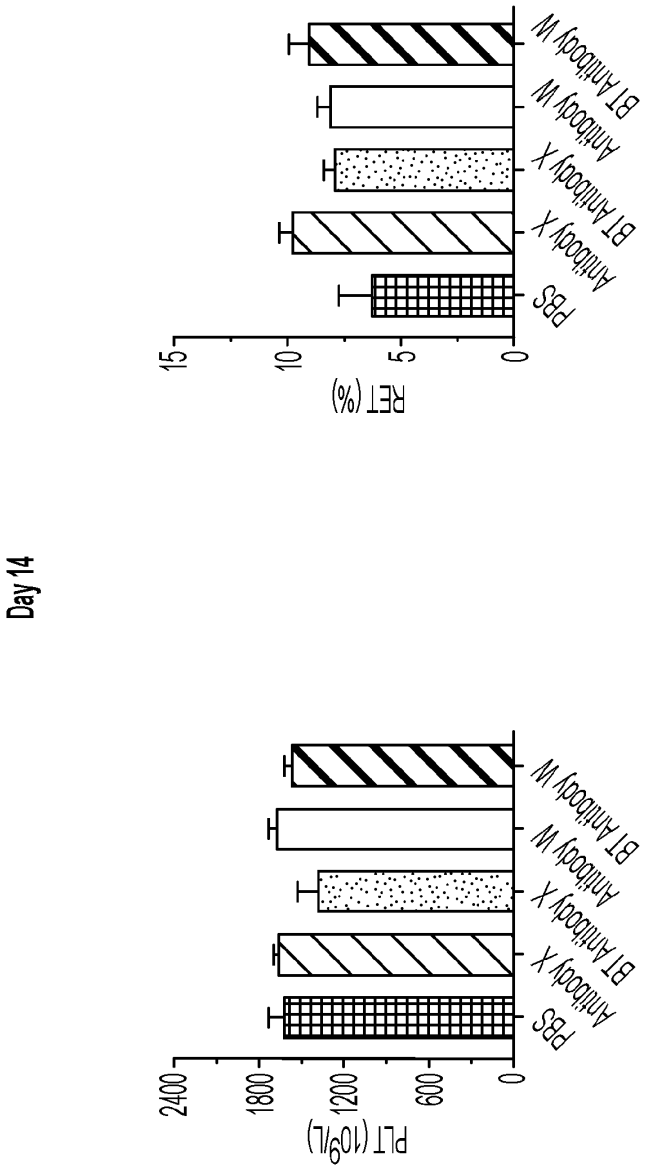

Day 14
RET (%)
0
5
10
15
PLT (10^9/L)
0
600
1200
1800
2400
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W

FIGURE 9B

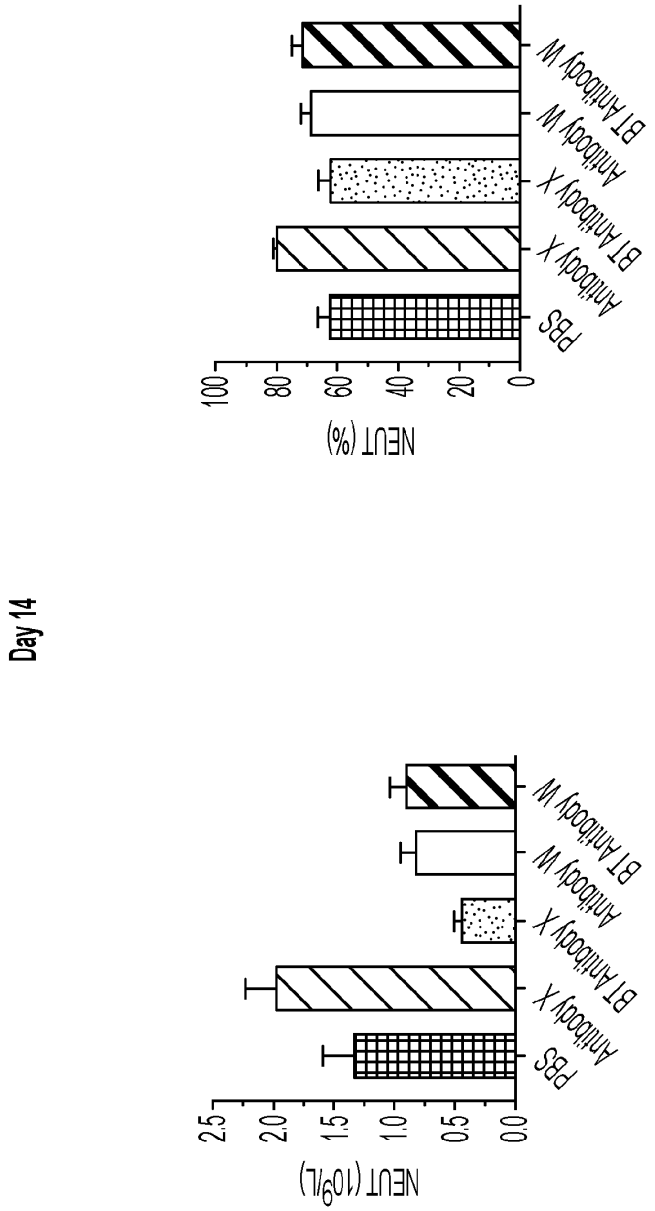

Day 14
NEUT (%)
100
80
60
40
20
0
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W
NEUT (10^9/L)
2.5
2.0
1.5
1.0
0.5
0.0
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W

FIGURE 9C

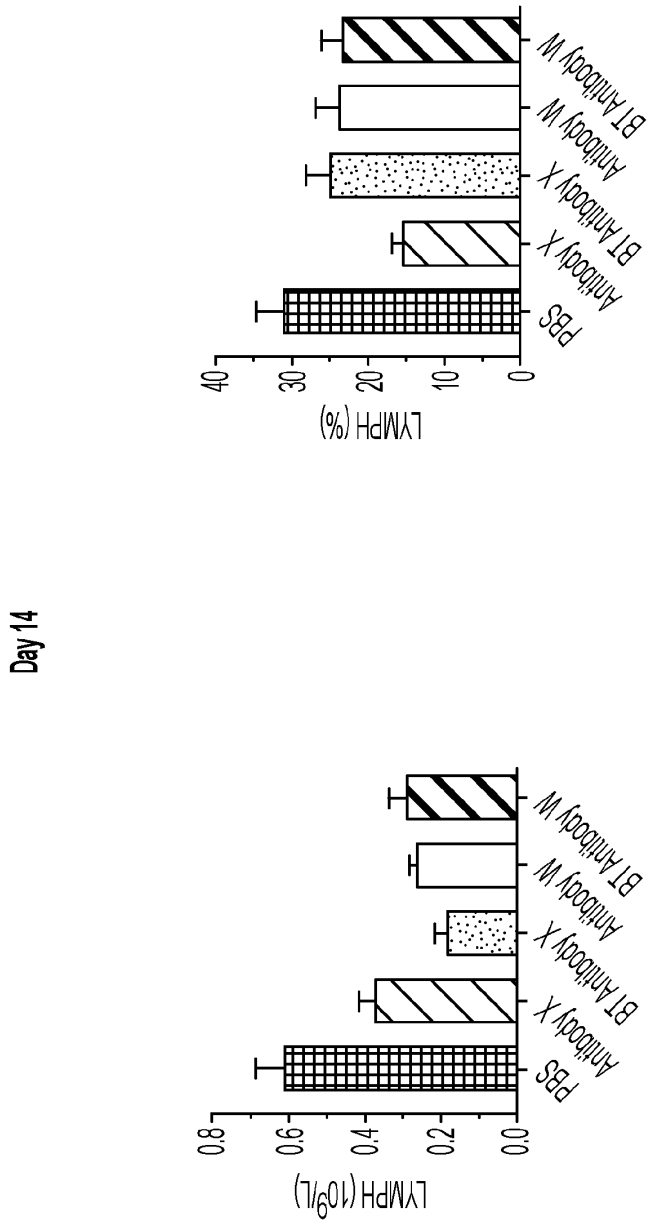

Day 14
LYMPH (%)
0
10
20
30
40
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W
LYMPH (10⁹/L)
0.0
0.2
0.4
0.6
0.8
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W

FIGURE 9D

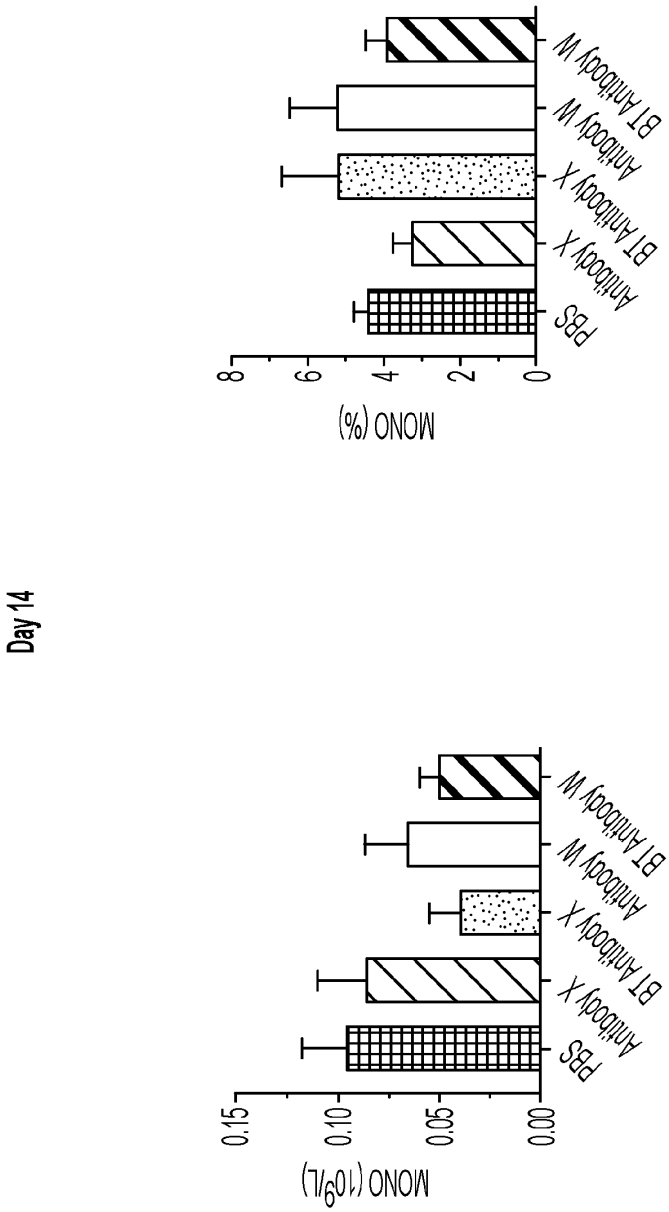

Day 14
MONO (%)
0
2
4
6
8
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W
MONO (10^9/L)
0.00
0.05
0.10
0.15
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W

FIGURE 9E

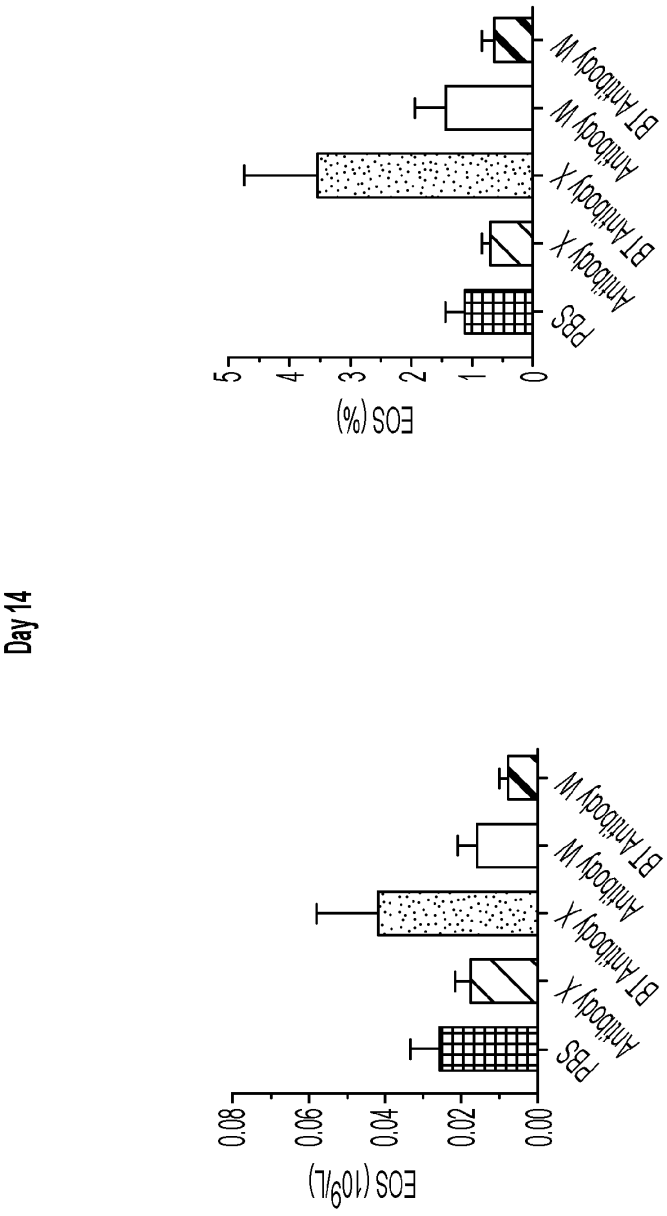

Day 14
EOS (%)
0
1
2
3
4
5
EOS (10^9/L)
0.00
0.02
0.04
0.06
0.08
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W

FIGURE 9F

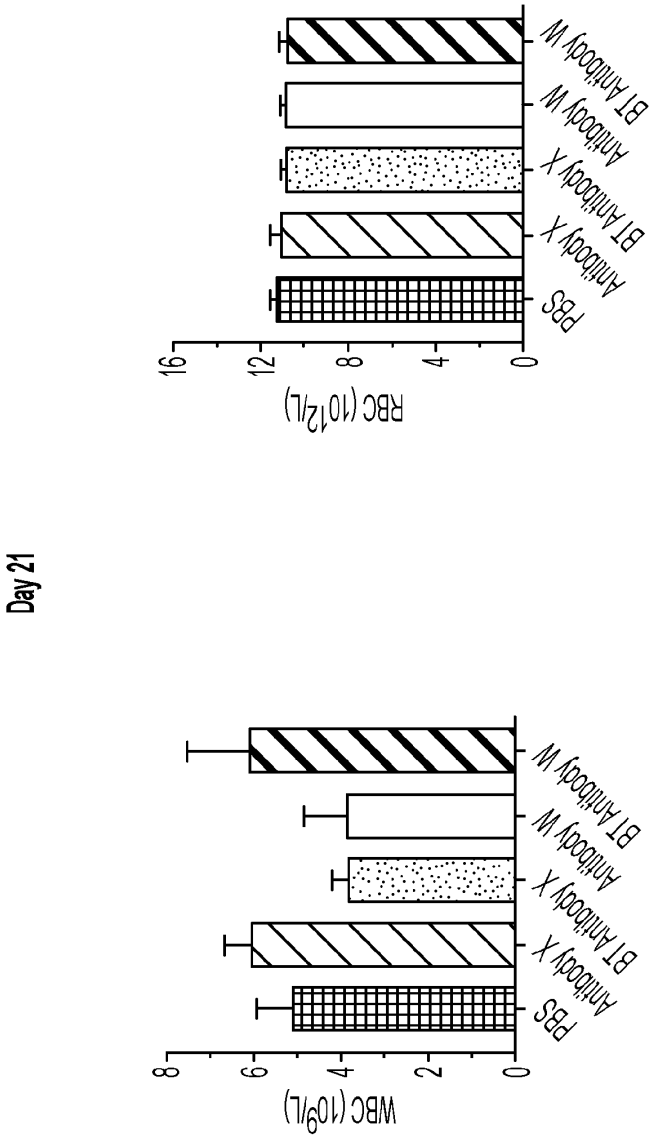

Day 21
RBC (10^{12}/L)
0
4
8
12
16
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W
WBC (10^9/L)
0
2
4
6
8
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W

FIGURE 10A

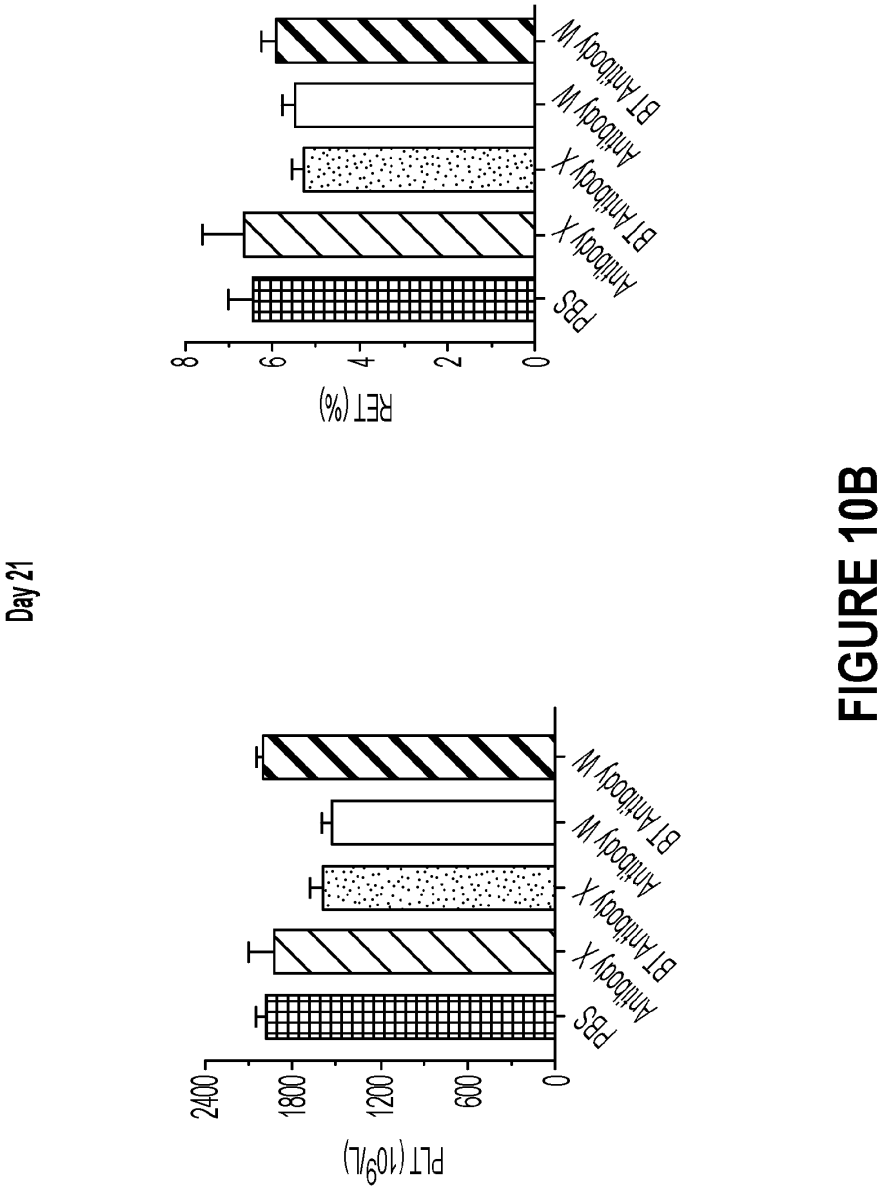

Day 21
RET (%)
0
2
4
6
8
PLT (10^9/L)
0
600
1200
1800
2400
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W

FIGURE 10B

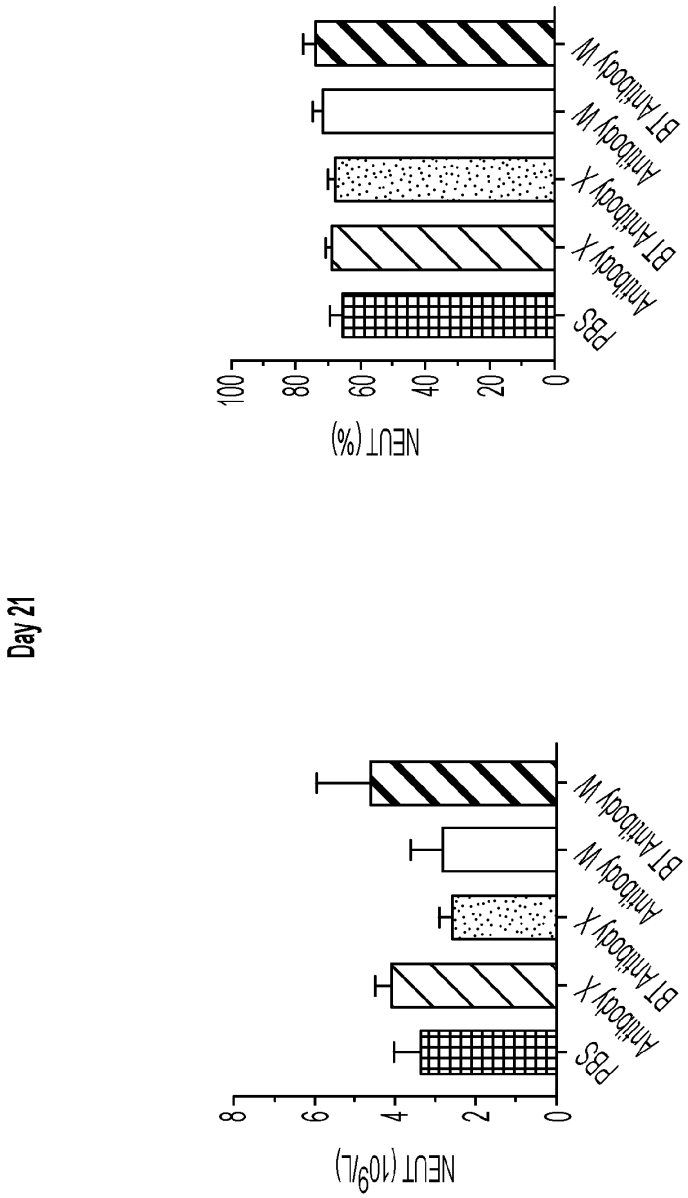

Day 21
NEUT (%)
100
80
60
40
20
0
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W
NEUT (10^9/L)
8
6
4
2
0
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W

FIGURE 10C

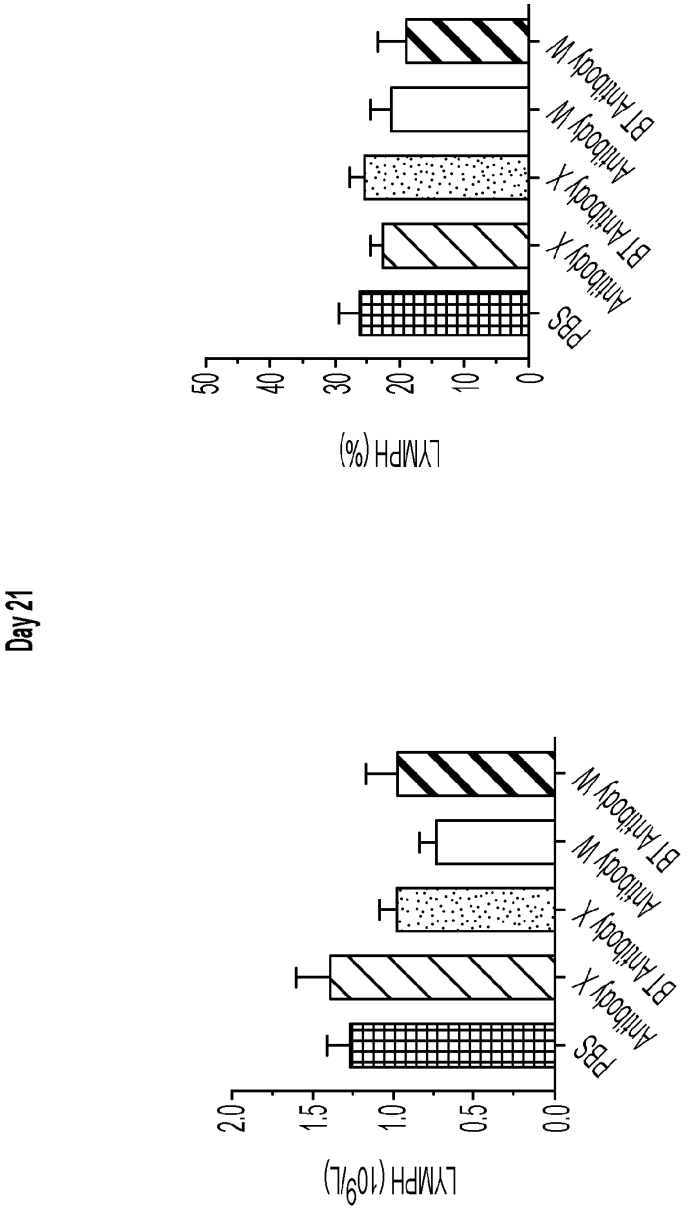

Day 21
LYMPH (%)
0
10
20
30
40
50
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W
LYMPH (10^9/L)
0.0
0.5
1.0
1.5
2.0
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W

FIGURE 10D

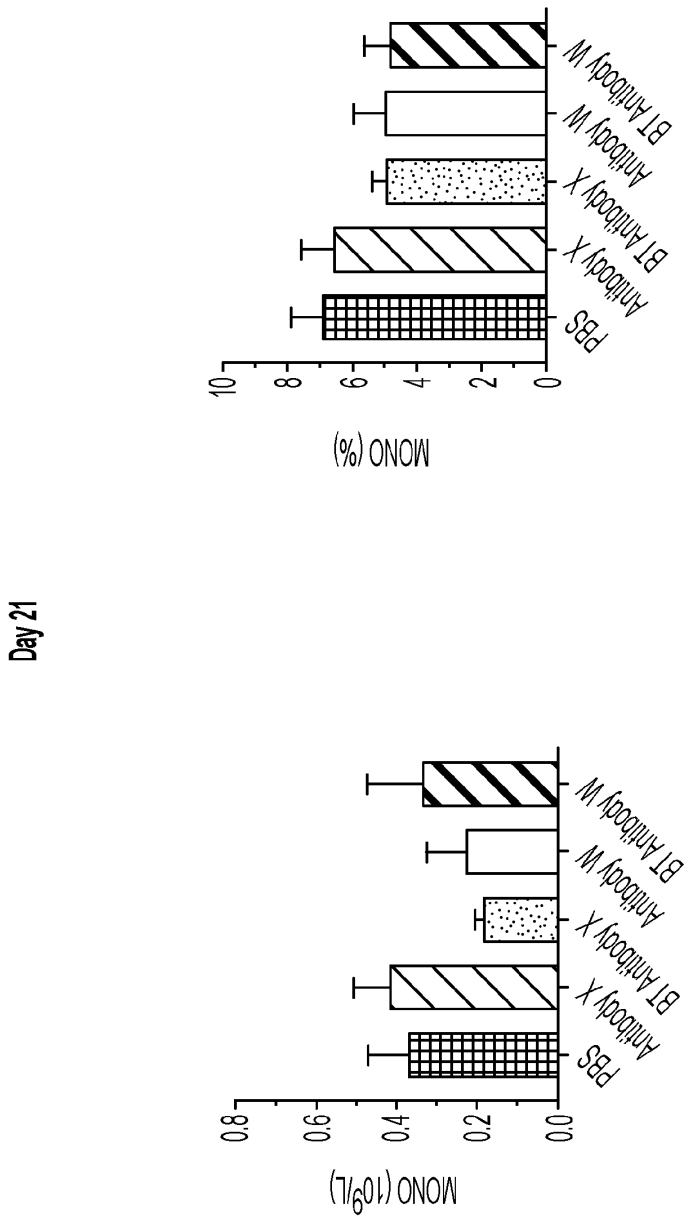

Day 21
MONO (%)
0
2
4
6
8
10
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W
MONO (10^9/L)
0.0
0.2
0.4
0.6
0.8
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W

FIGURE 10E

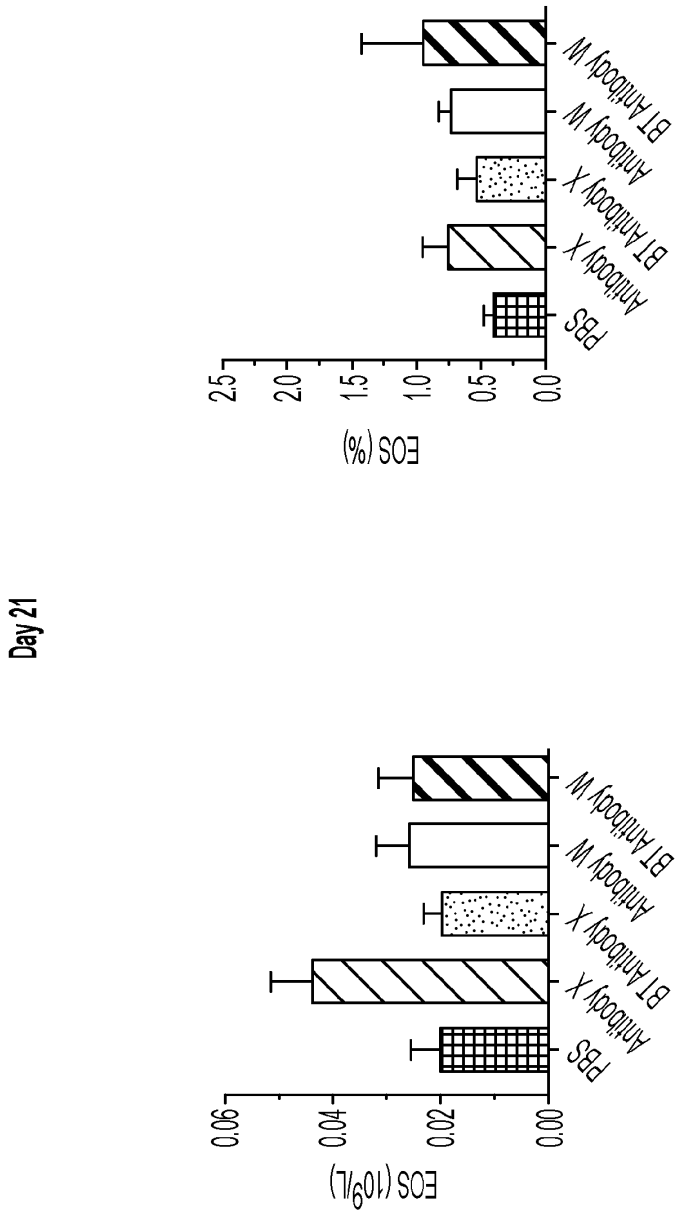

Day 21
EOS (%)
2.5
2.0
1.5
1.0
0.5
0.0
EOS (10^9/L)
0.06
0.04
0.02
0.00
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W

FIGURE 10F

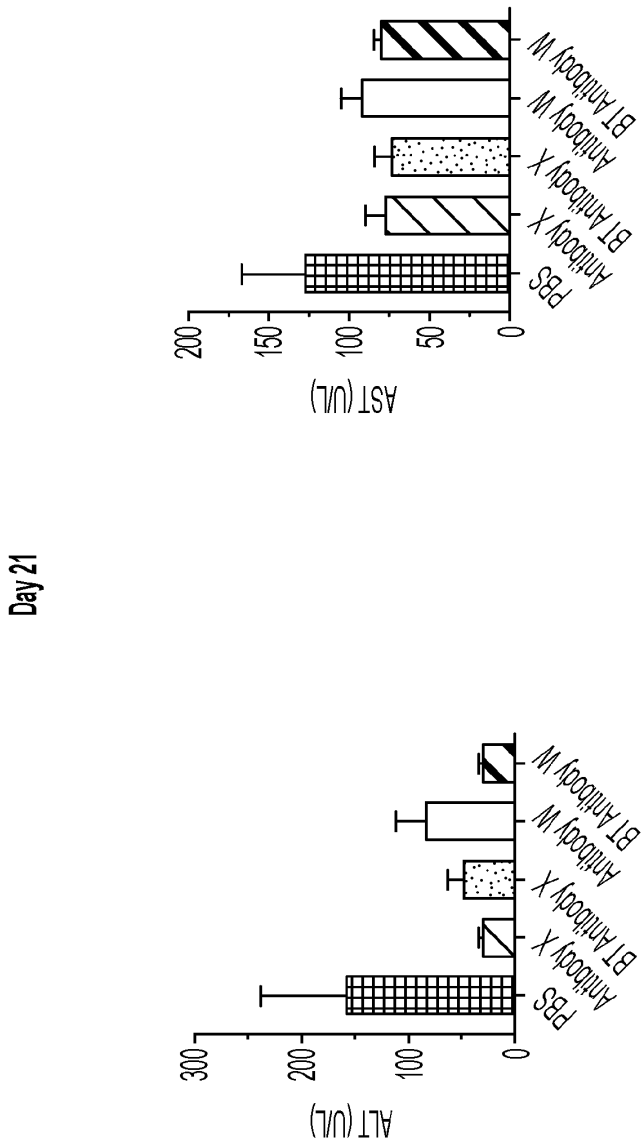

Day 21
AST (U/L)
200
150
100
50
0
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W
ALT (U/L)
300
200
100
0
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W

FIGURE 11A

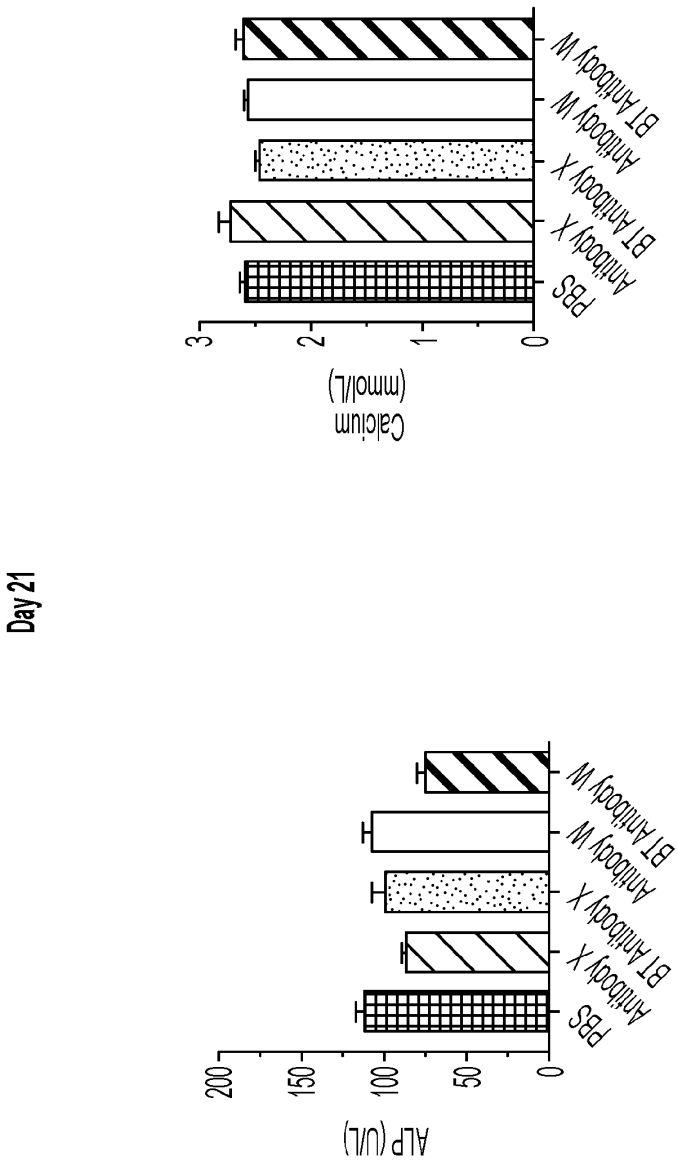

Day 21
Calcium (mmol/L)
0
1
2
3
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W
ALP (U/L)
0
50
100
150
200
PBS
Antibody X
BT Antibody X
Antibody W
BT Antibody W

FIGURE 11B