Fig. 1A

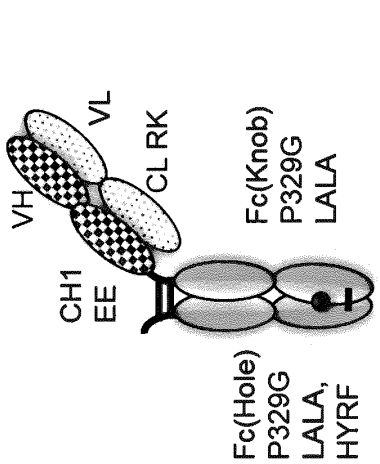


Fig. 1B

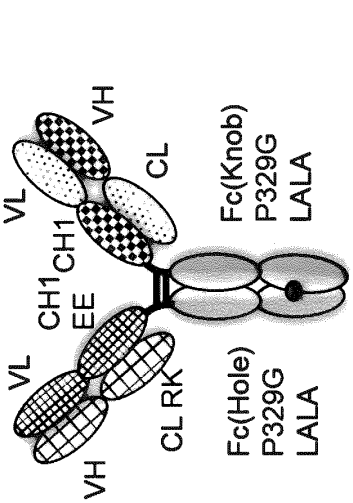


Fig. 1C

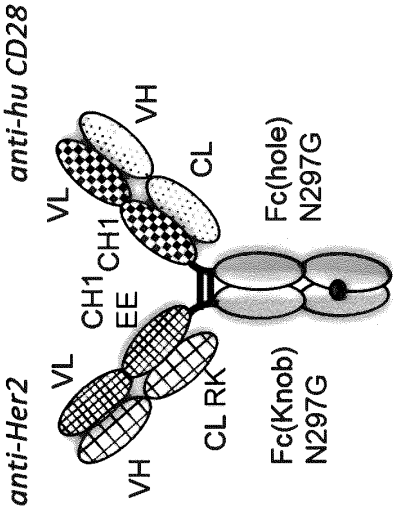


Fig. 1D

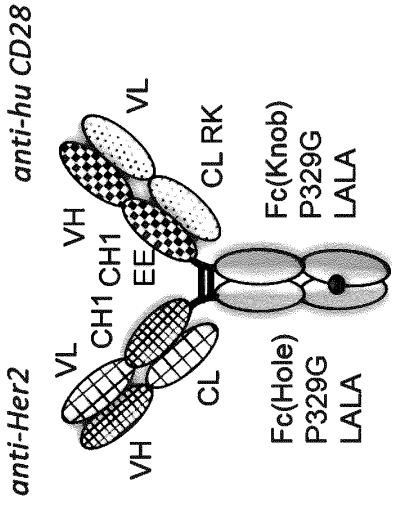


Fig. 2A

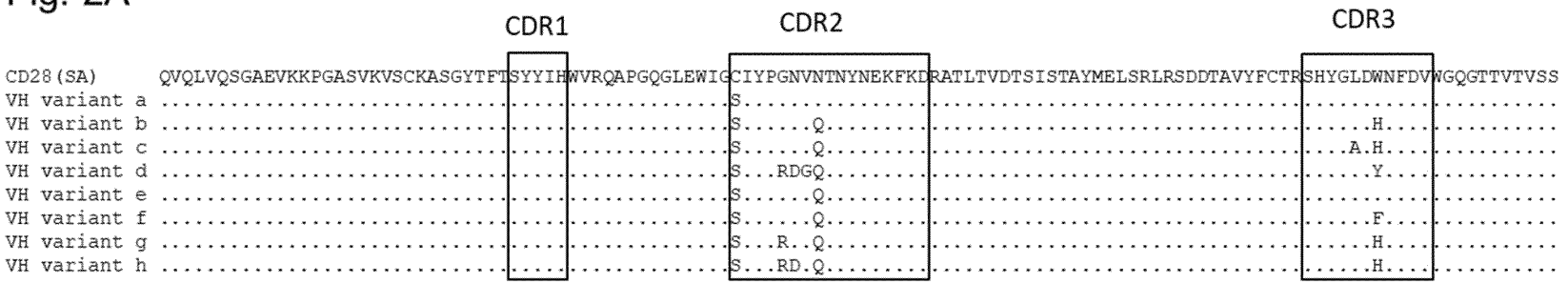


Fig. 2B

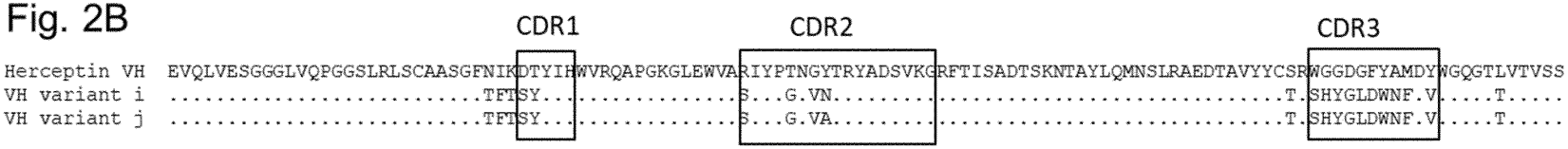


Fig. 2C

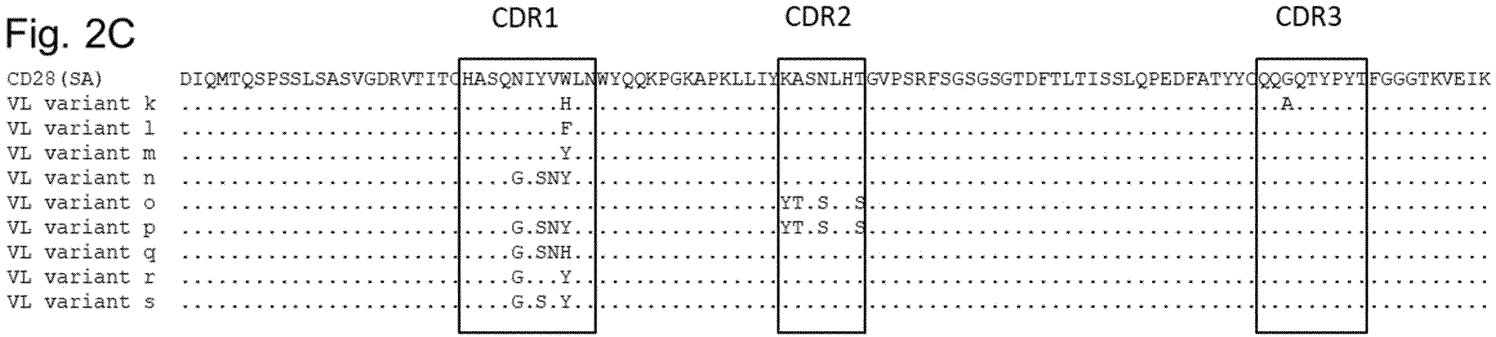


Fig. 2D

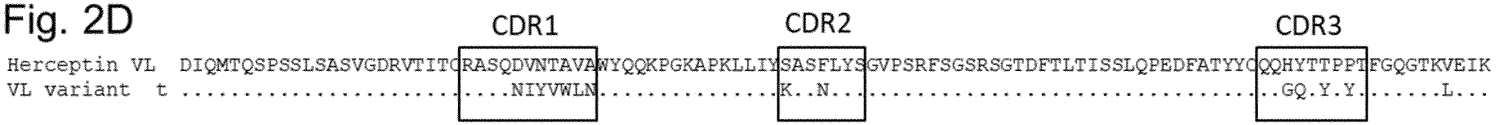


Fig. 3A

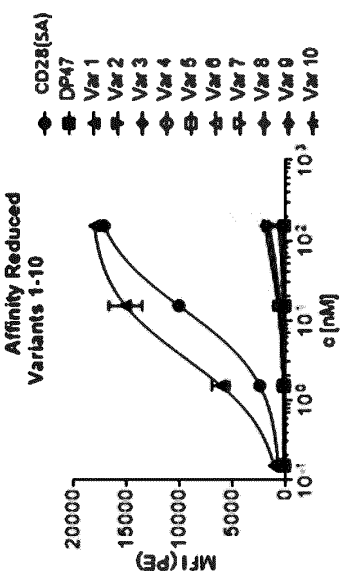


Fig. 3B

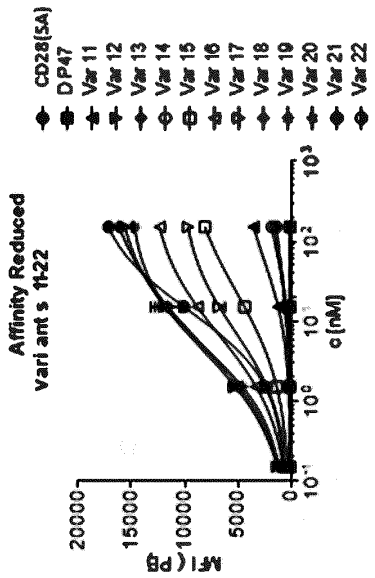


Fig. 3C

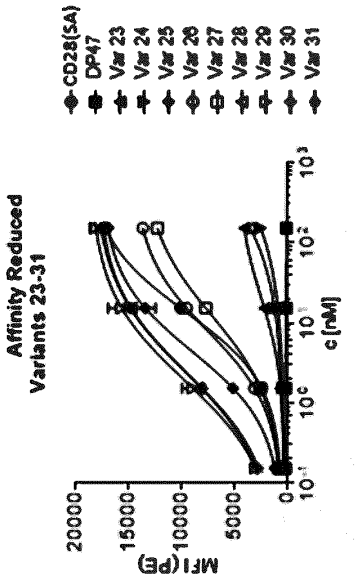


Fig. 4A

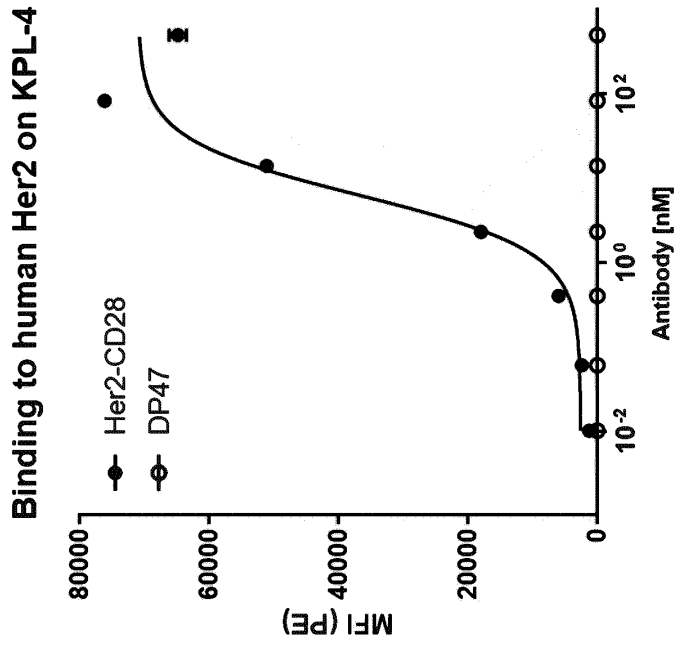

Binding to human Her2 on KPL-4
Her2-CD28
DP47
MFI (PE)
80000
60000
40000
20000
0
10^{-2}
10^{0}
10^{2}
Antibody [nM]

Fig. 4B

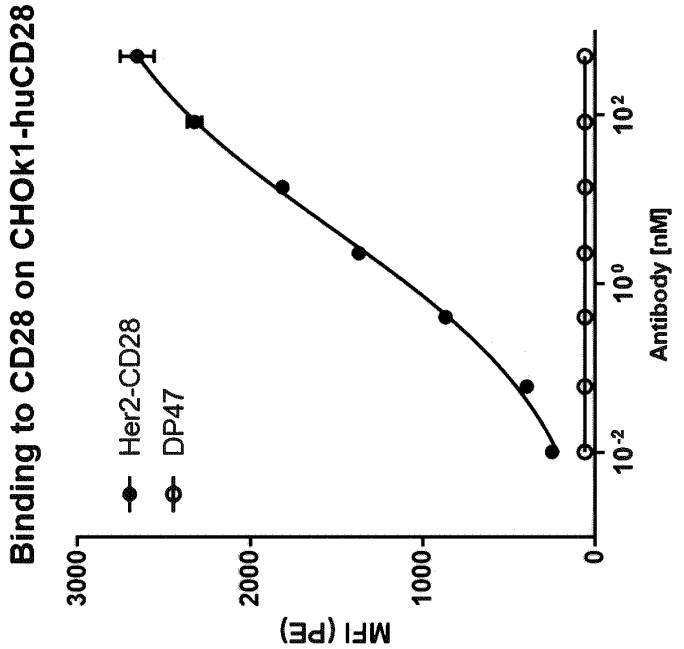
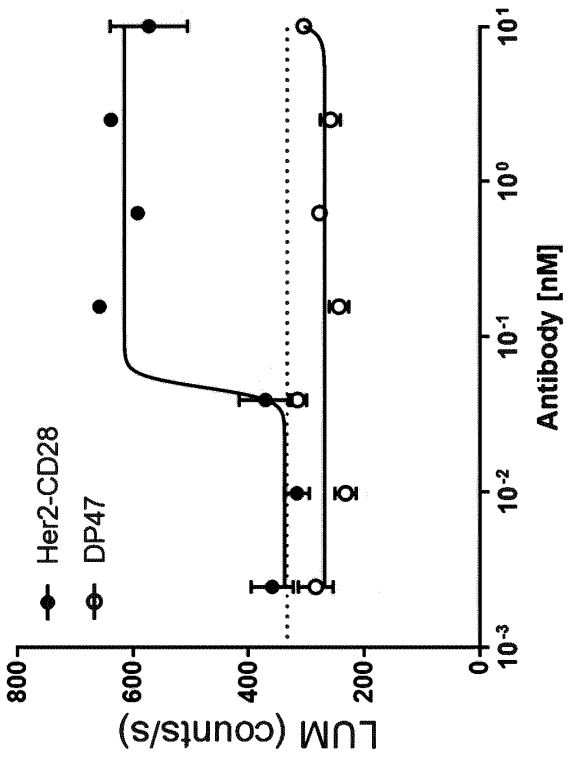

Binding to CD28 on CHOk1-huCD28
Her2-CD28
DP47
MFI (PE)
3000
2000
1000
0
10^{-2}
10^{0}
10^{2}
Antibody [nM]

Fig. 5


IL-2 reporter assay
Her2-CD28
DP47
LUM (counts/s)
800
600
400
200
0
10-3
10-2
10-1
100
101
Antibody [nM]

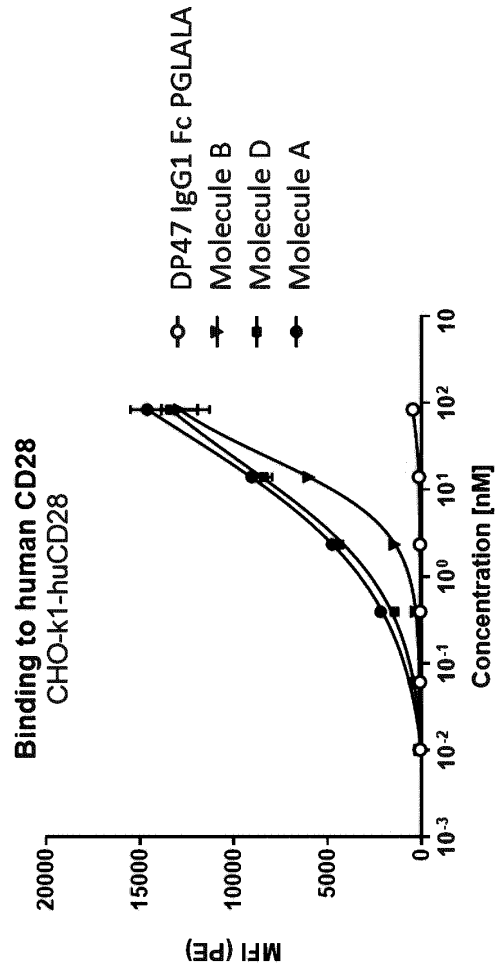

Binding to human CD28
CHO-k1-huCD28
DP47 IgG1 Fc PGLALA
Molecule B
Molecule D
Molecule A
MFI (PE)
Concentration [nM]

Fig. 6A

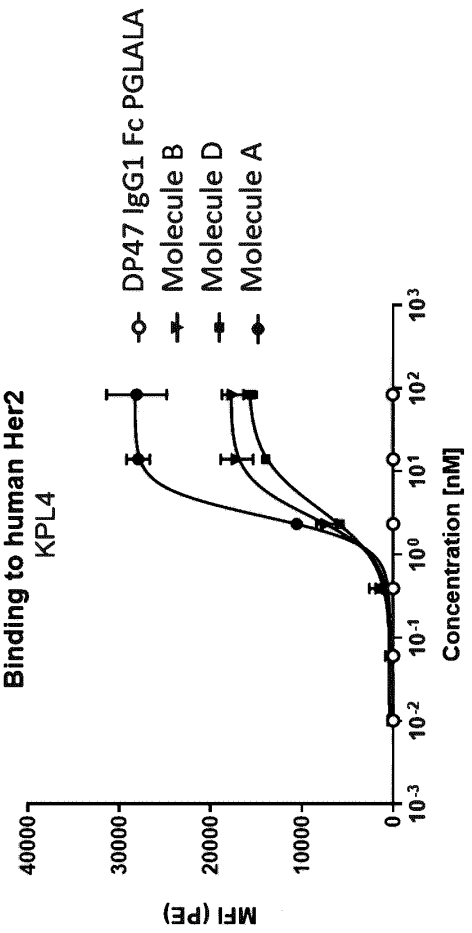

Binding to human Her2
KPL4
DP47 IgG1 Fc PGLALA
Molecule B
Molecule D
Molecule A
MFI (PE)
Concentration [nM]

Fig. 6B

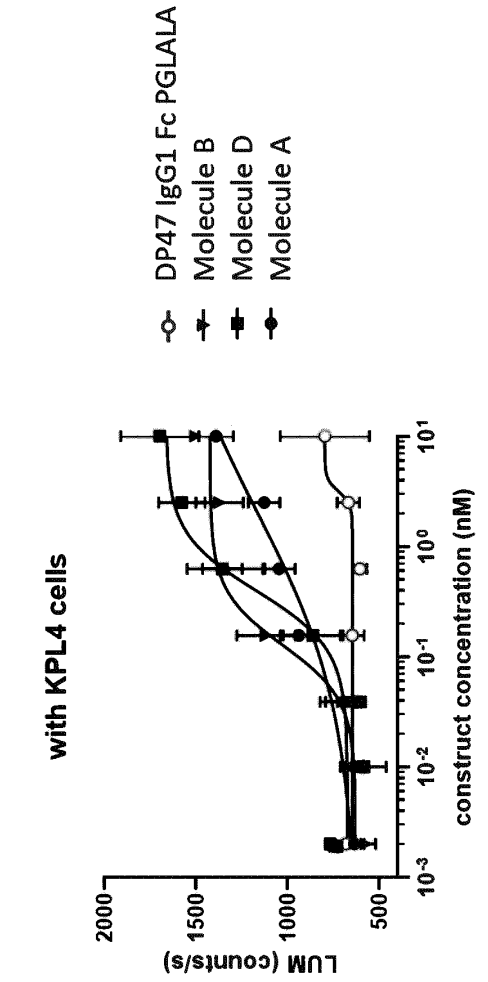

with KPL4 cells
DP47 IgG1 Fc PGLALA
Molecule B
Molecule D
Molecule A
LUM (counts/s)
2000
1500
1000
500
10^{-3}
10^{-2}
10^{-1}
10^{0}
10^{1}
construct concentration (nM)

Fig. 7A

without KPL4 cells
DP47 IgG1 Fc PGLALA
Molecule B
Molecule D
Molecule A
LUM (counts/s)
2000
1500
1000
500
10^{-3}
10^{-2}
10^{-1}
10^{0}
10^{1}
construct concentration (nM)

Fig. 7B

Fig. 8A

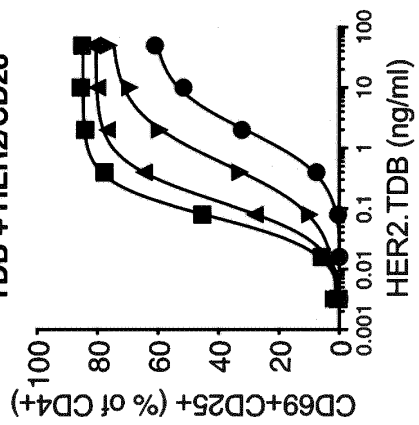


Fig. 8B

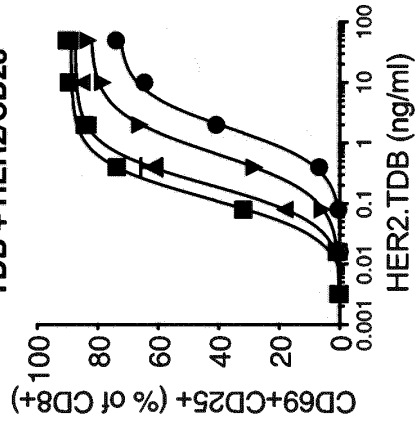


Fig. 8C

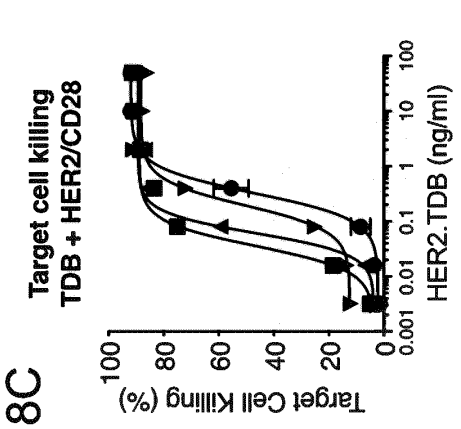


Fig. 9A

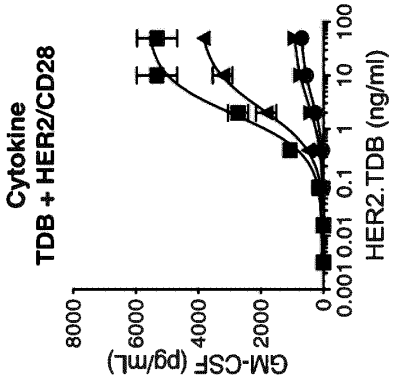


Fig. 9B

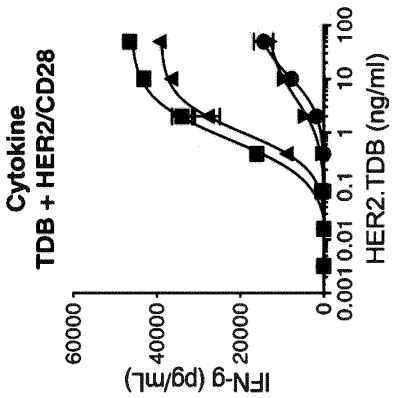


Fig. 9C

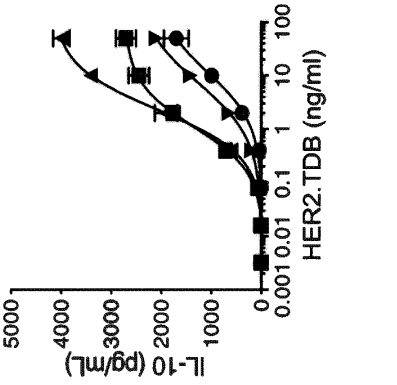


Fig. 9D

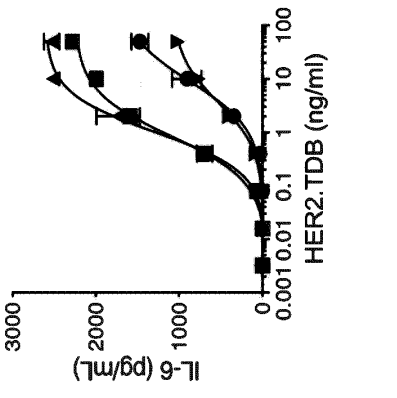


Fig. 9E

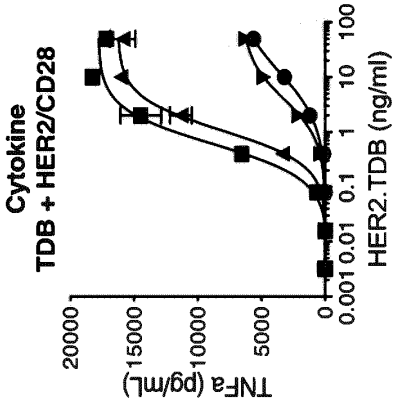


Fig. 9F

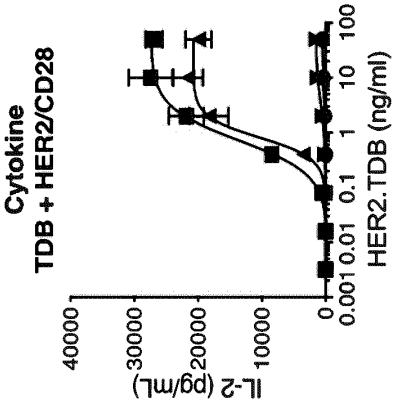


Fig. 9G

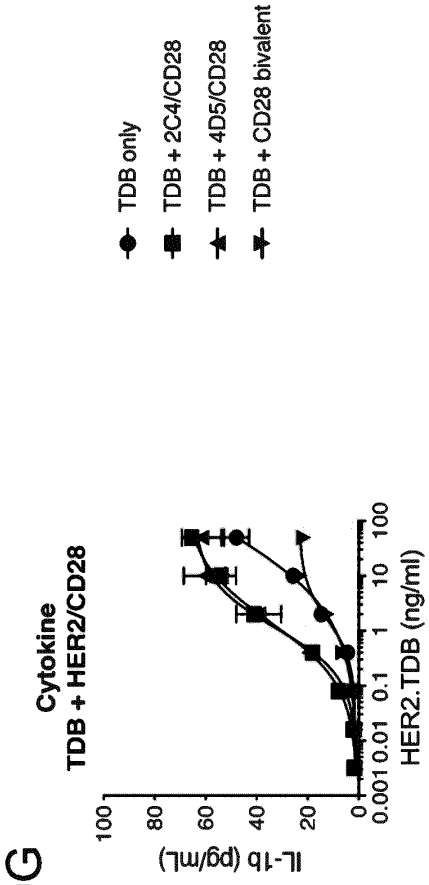


Fig. 10A

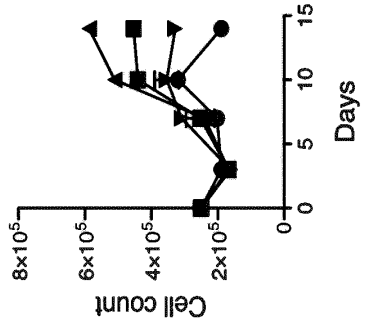


Fig. 10B

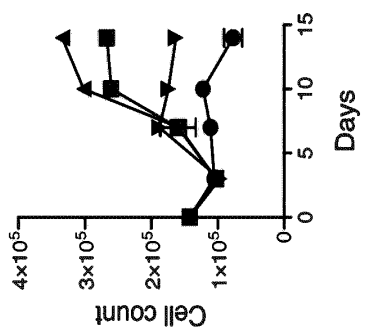


Fig. 10C

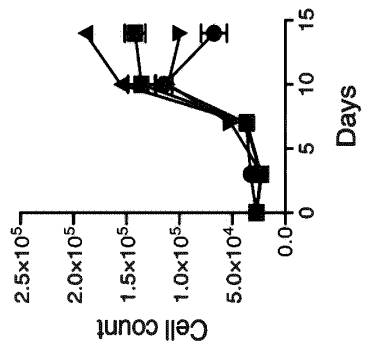
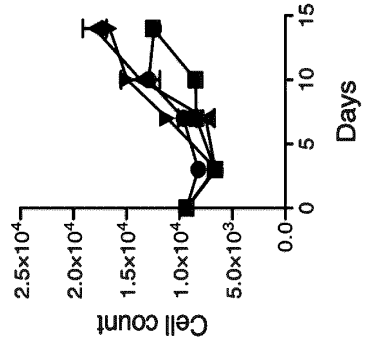



Fig. 10D