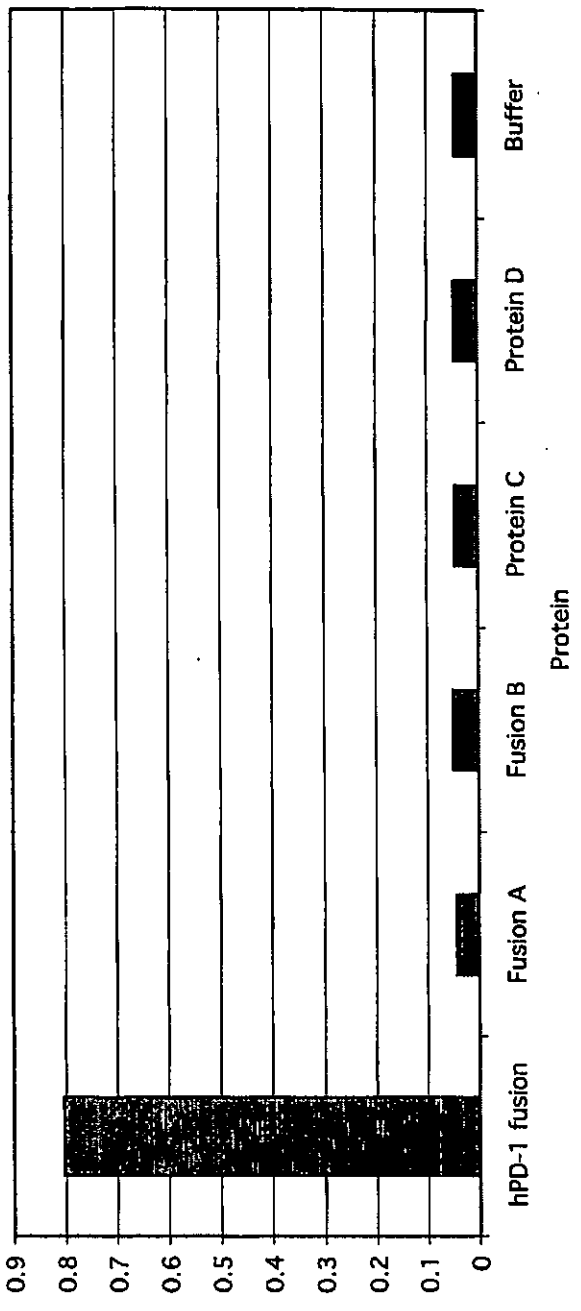

0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
hPD-1 fusion
Fusion A
Fusion B
Protein C
Protein D
Buffer
Protein

Fig. 1A

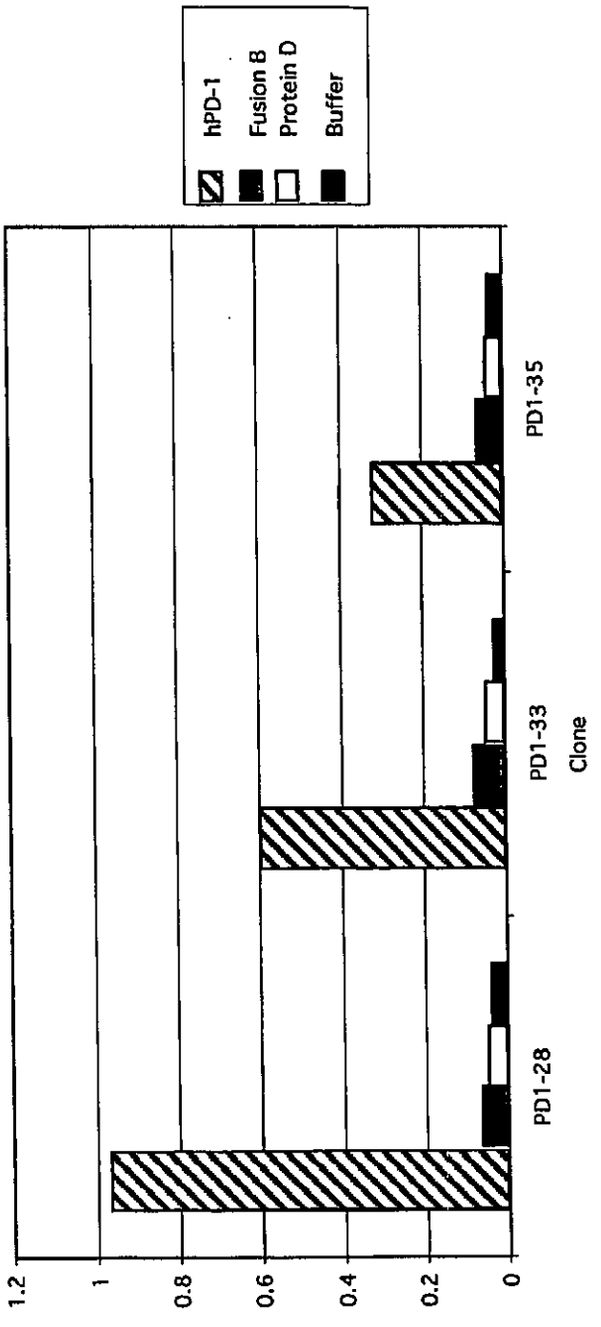

hPD-1
Fusion & Protein D
Buffer
PD1-35
PD1-33
PD1-28
Clone
1.2
1
0.8
0.6
0.4
0.2
0

Fig. 1B

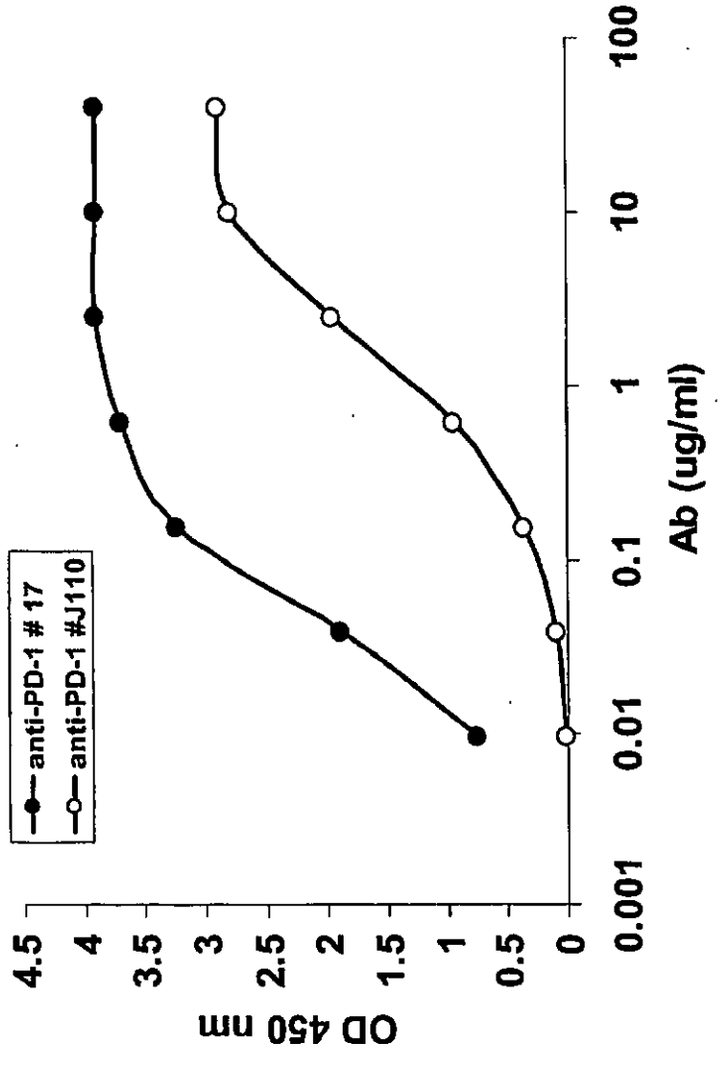

OD 450 nm
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0.001
0.01
0.1
1
10
100
Ab (ug/ml)
anti-PD-1 # 17
anti-PD-1 #J110

Fig. 2A

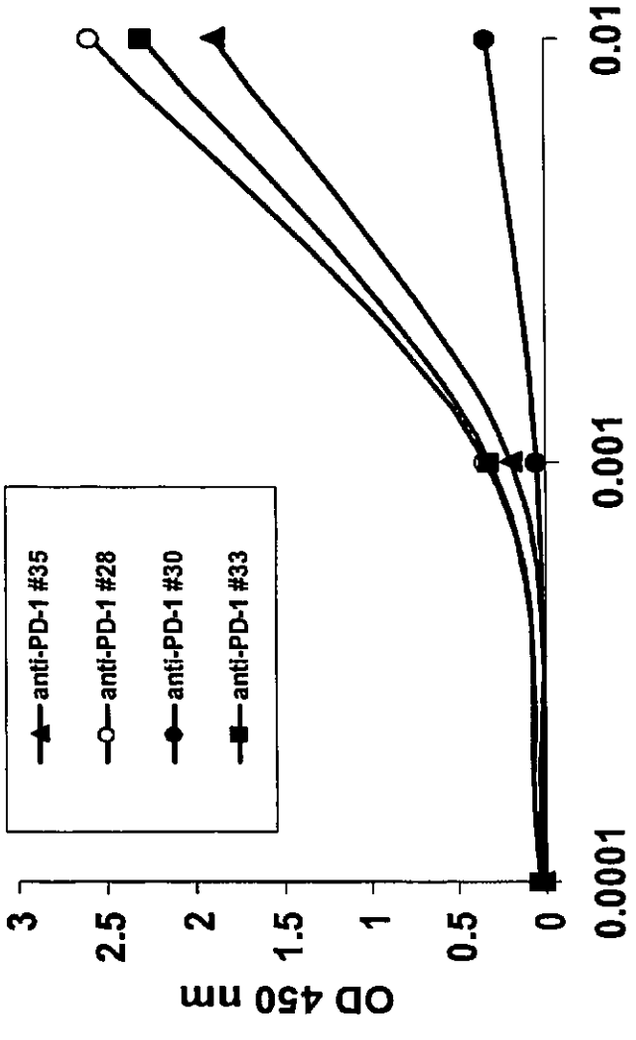

anti-PD-1 #35
anti-PD-1 #28
anti-PD-1 #30
anti-PD-1 #33
OD 450 nm
3
2.5
2
1.5
1
0.5
0
0.0001
0.001
0.01
Ab (ug/ml)

Fig. 2B

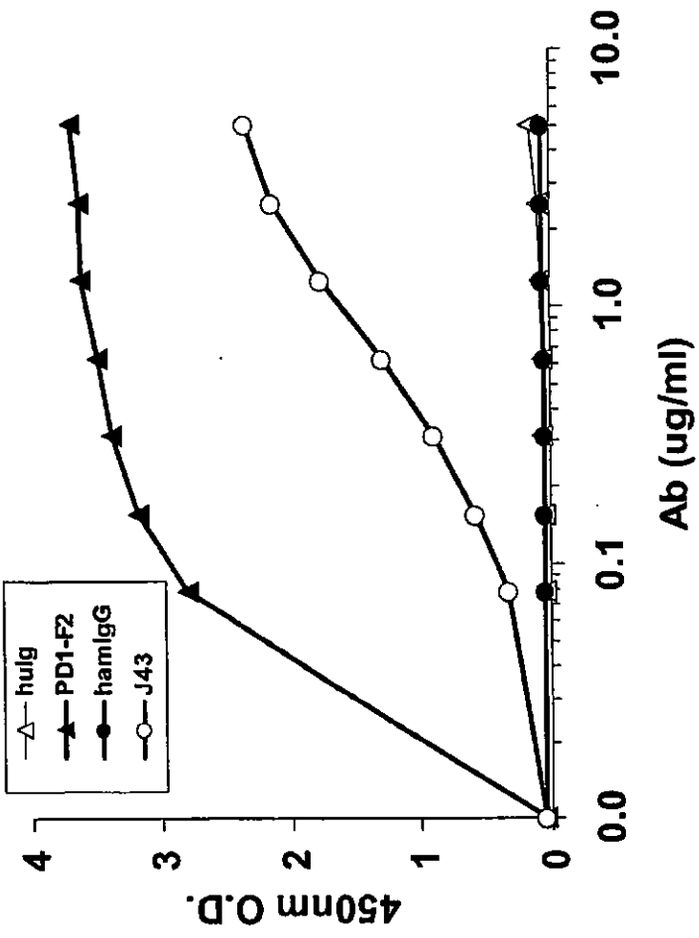


Fig. 2C

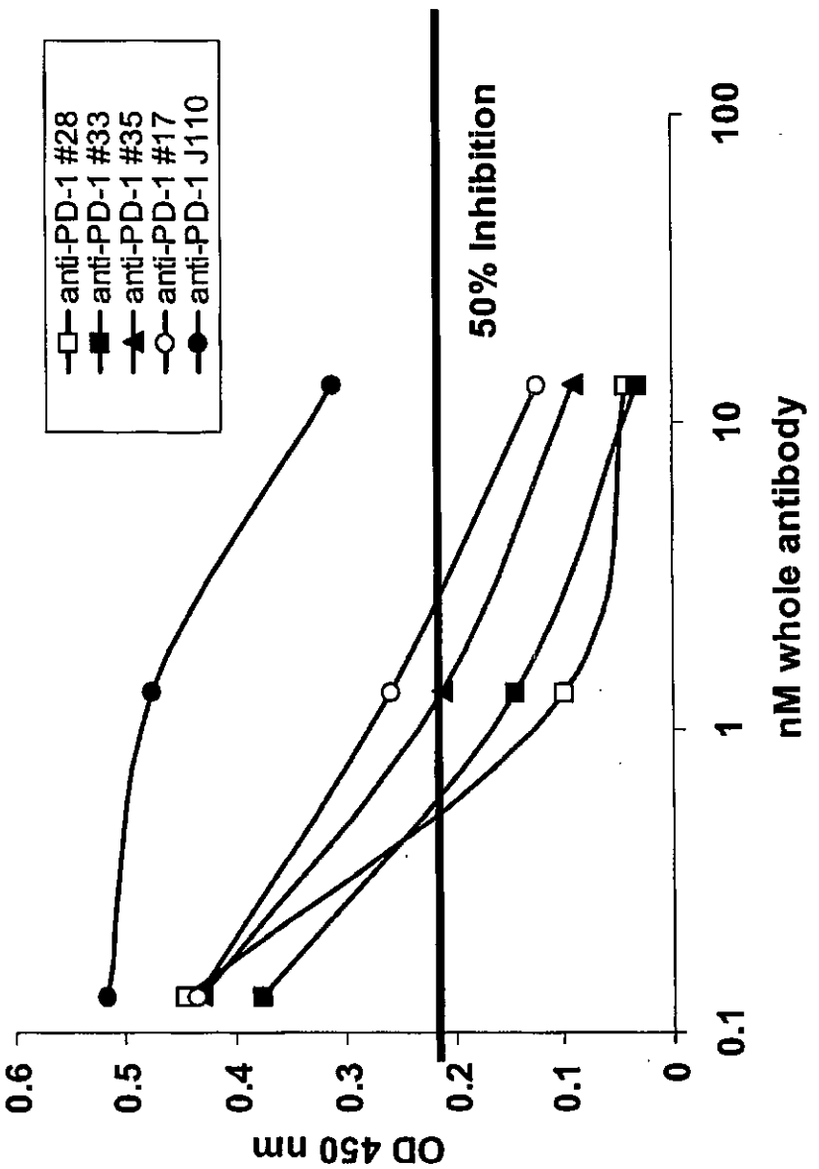

anti-PD-1 #28
anti-PD-1 #33
anti-PD-1 #35
anti-PD-1 #17
anti-PD-1 J110
50% Inhibition
OD 450 nm
0.6
0.5
0.4
0.3
0.2
0.1
0
0.1
1
10
100
nM whole antibody

Fig. 3

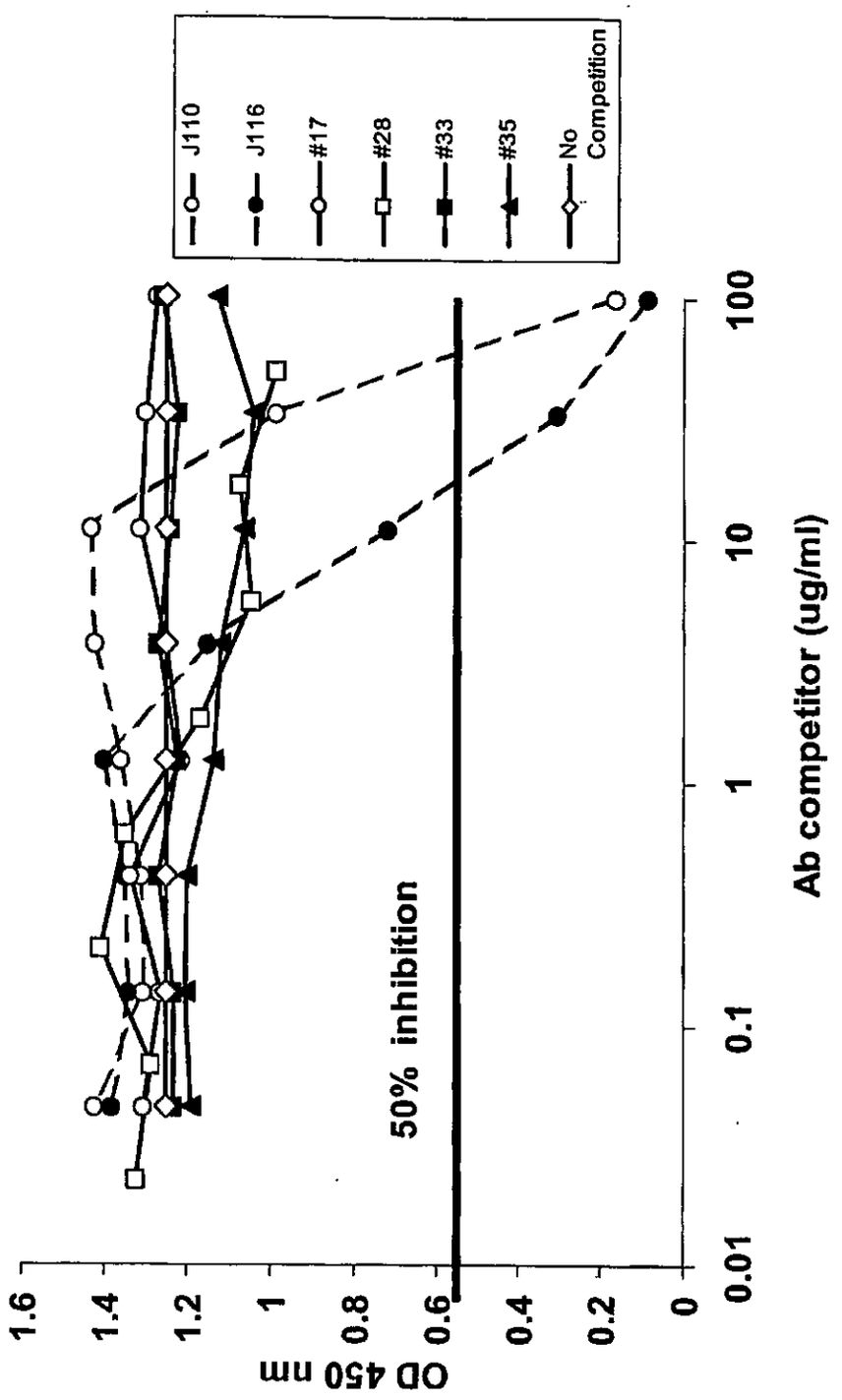

J110
J116
#17
#28
#33
#35
No Competition
50% inhibition
OD 450 nm
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0.01
0.1
1
10
100
Ab competitor (ug/ml)

Fig. 4

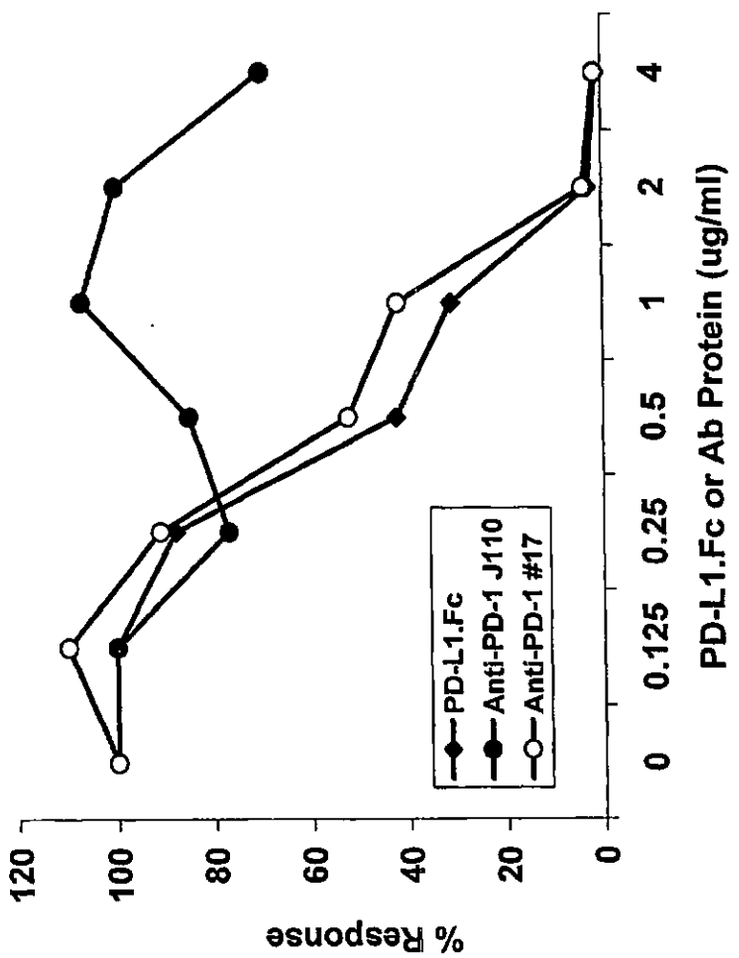

% Response
120
100
80
60
40
20
0
0
0.125
0.25
0.5
1
2
4
PD-L1.Fc or Ab Protein (ug/ml)
PD-L1.Fc
Anti-PD-1 J110
Anti-PD-1 #17

Fig. 5

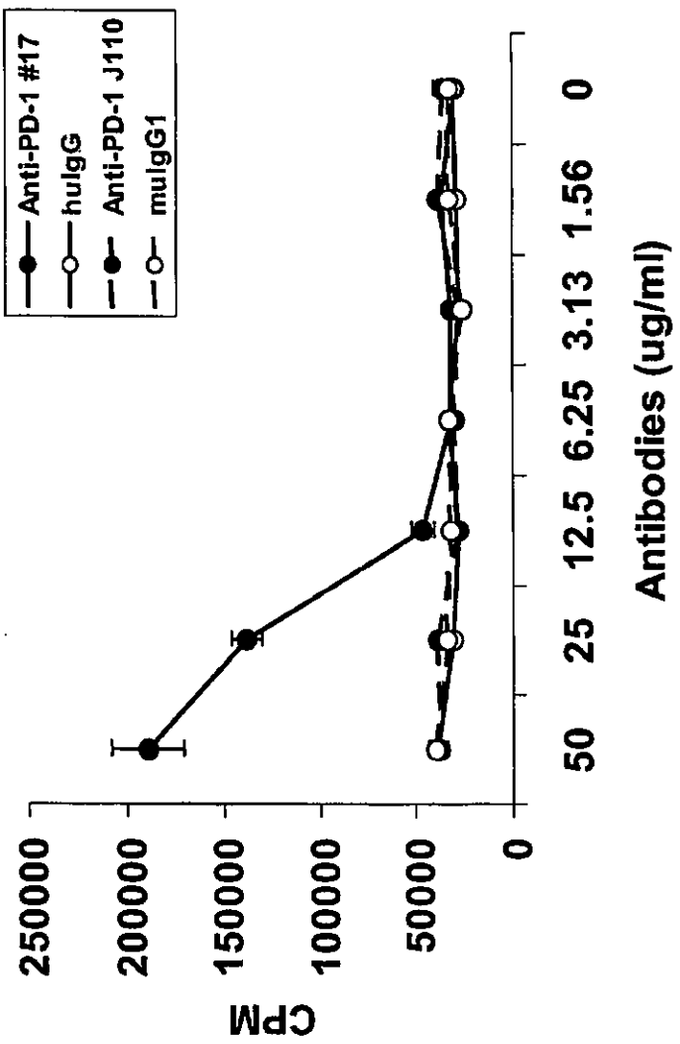

Anti-PD-1 #17
huIgG
Anti-PD-1 J110
muIgG1
CPM
250000
200000
150000
100000
50000
0
50
25
12.5
6.25
3.13
1.56
0
Antibodies (ug/ml)

Fig. 6