Figure 1

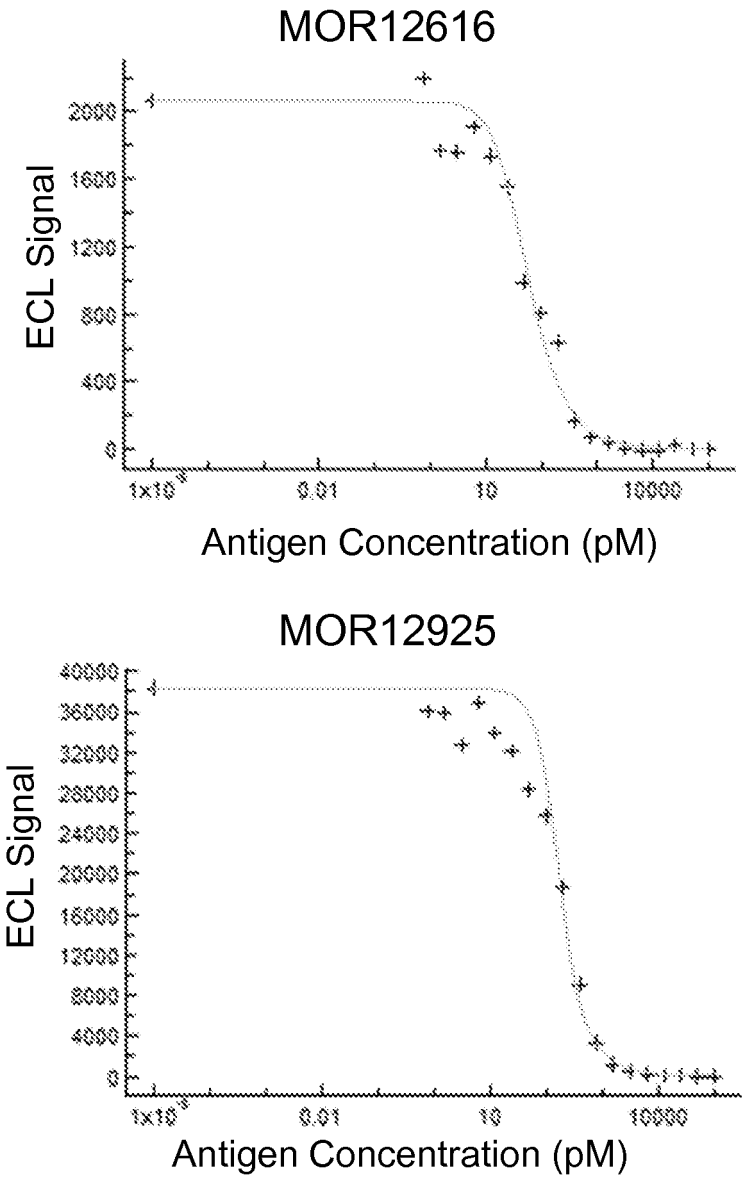

MOR12616
ECL Signal
2000
1600
1200
800
400
0
1x10
0.01
10
10000
Antigen Concentration (pM)
MOR12925
ECL Signal
40000
36000
32000
28000
24000
20000
16000
12000
8000
4000
0
1x10
0.01
10
10000
Antigen Concentration (pM)

Figure 2

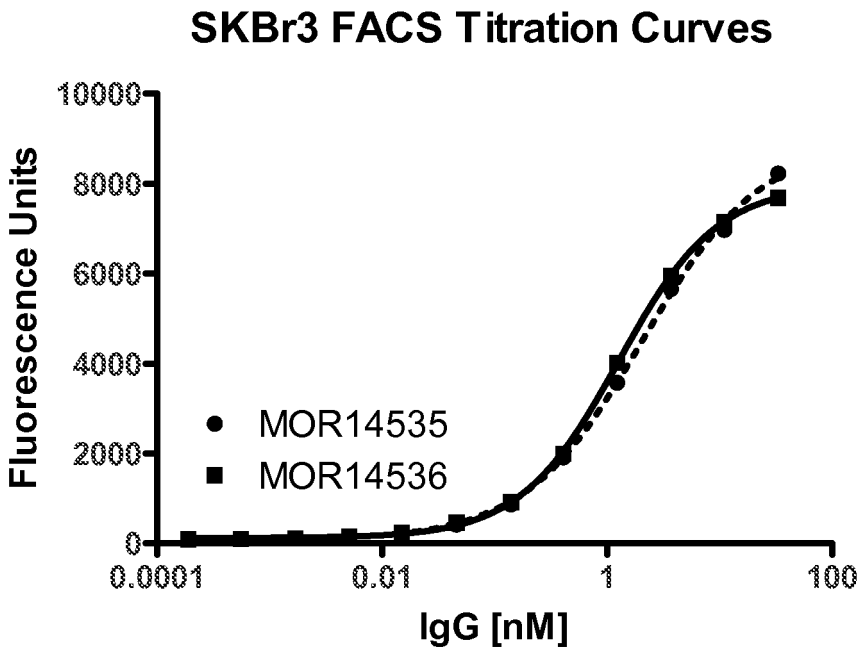

SKBr3 FACS Titration Curves
Fluorescence Units
10000
8000
6000
4000
2000
0
0.0001
0.01
1
100
IgG [nM]
MOR14535
MOR14536

Figure 3

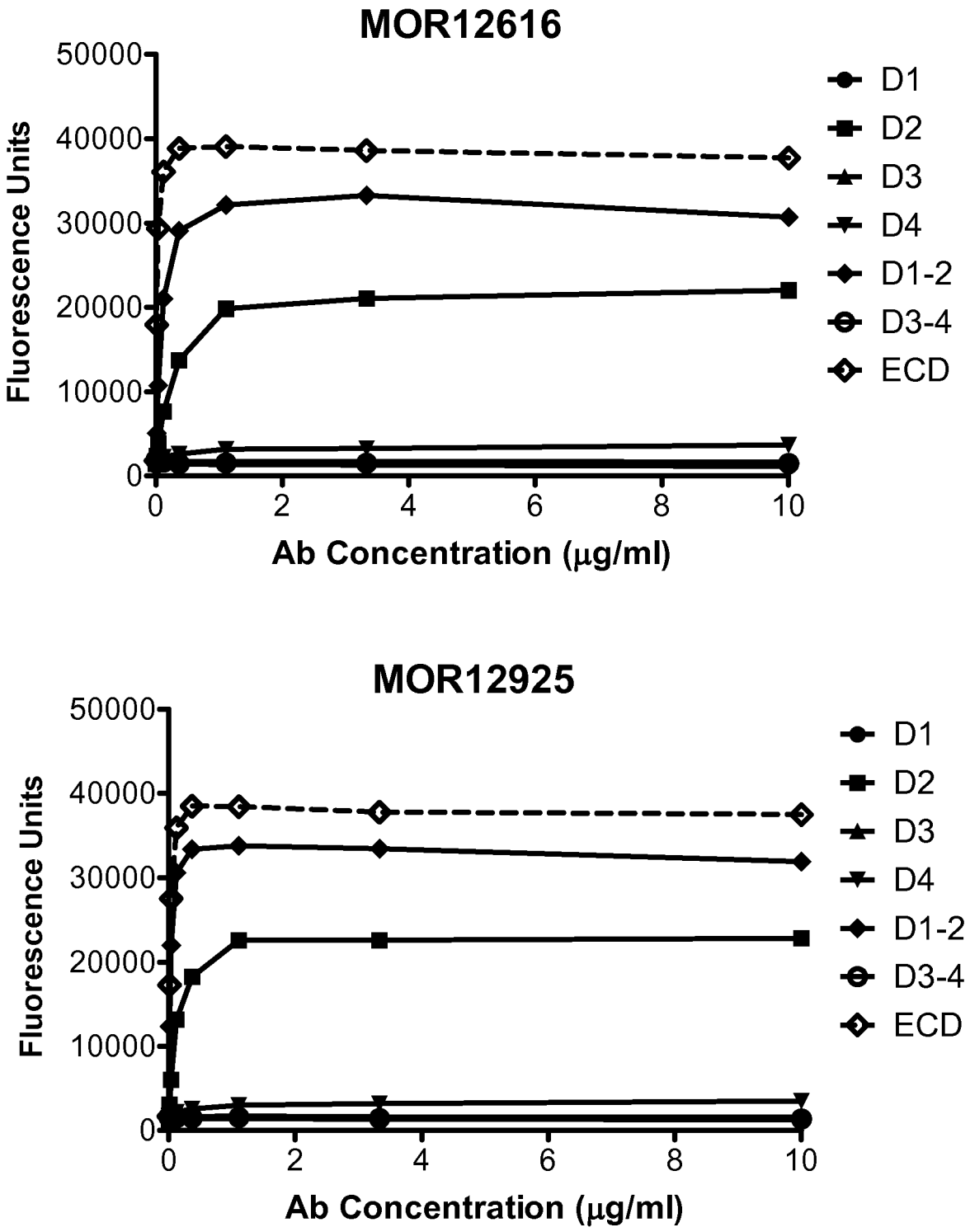
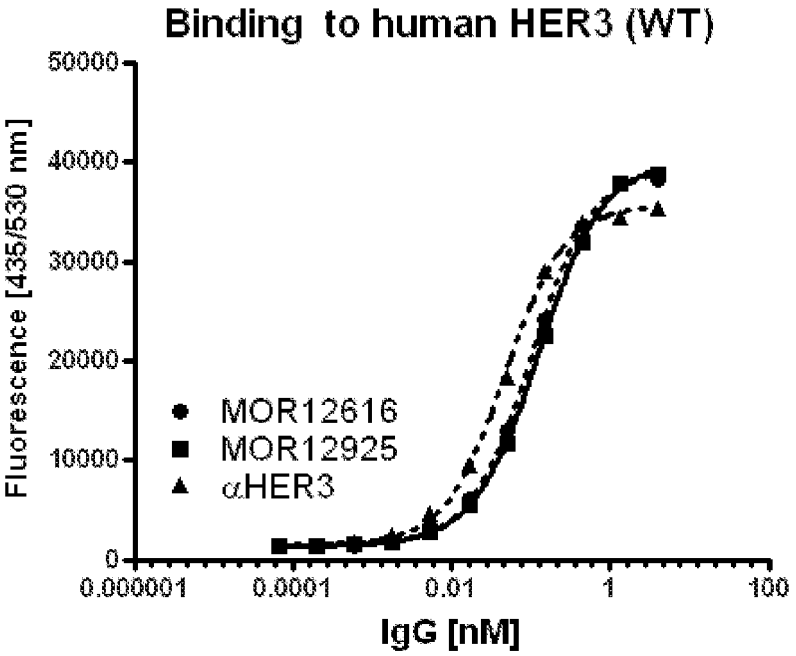

MOR12616
Fluorescence Units
50000
40000
30000
20000
10000
0
0
2
4
6
8
10
Ab Concentration (µg/ml)
D1
D2
D3
D4
D1-2
D3-4
ECD
MOR12925
Fluorescence Units
50000
40000
30000
20000
10000
0
0
2
4
6
8
10
Ab Concentration (µg/ml)
D1
D2
D3
D4
D1-2
D3-4
ECD

Figure 4


Binding to human HER3 (WT)
Fluorescence [435/530 nm]
50000
40000
30000
20000
10000
0
0.000001
0.0001
0.01
1
100
IgG [nM]
MOR12616
MOR12925
αHER3

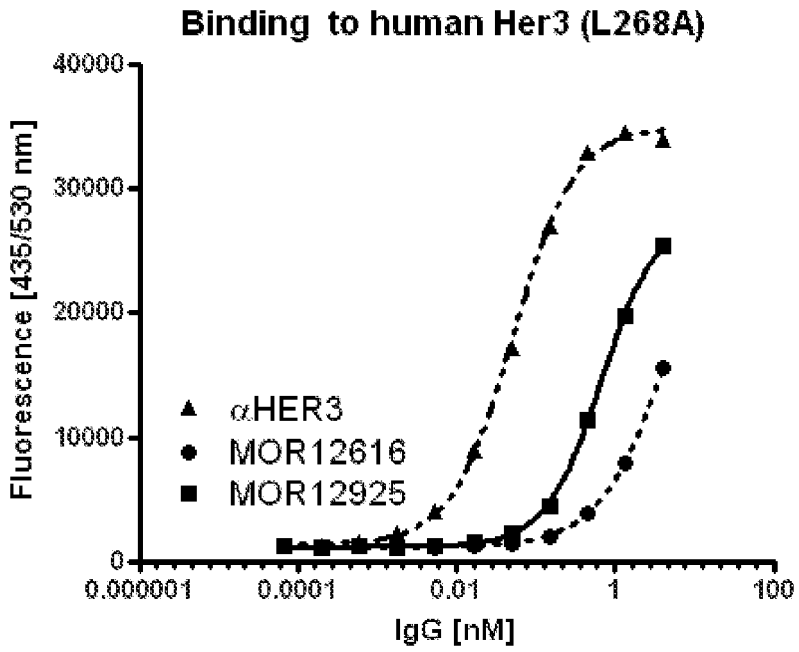

Binding to human Her3 (L268A)
Fluorescence [435/530 nm]
40000
30000
20000
10000
0
0.000001
0.0001
0.01
1
100
IgG [nM]
αHER3
MOR12616
MOR12925

Figure 5

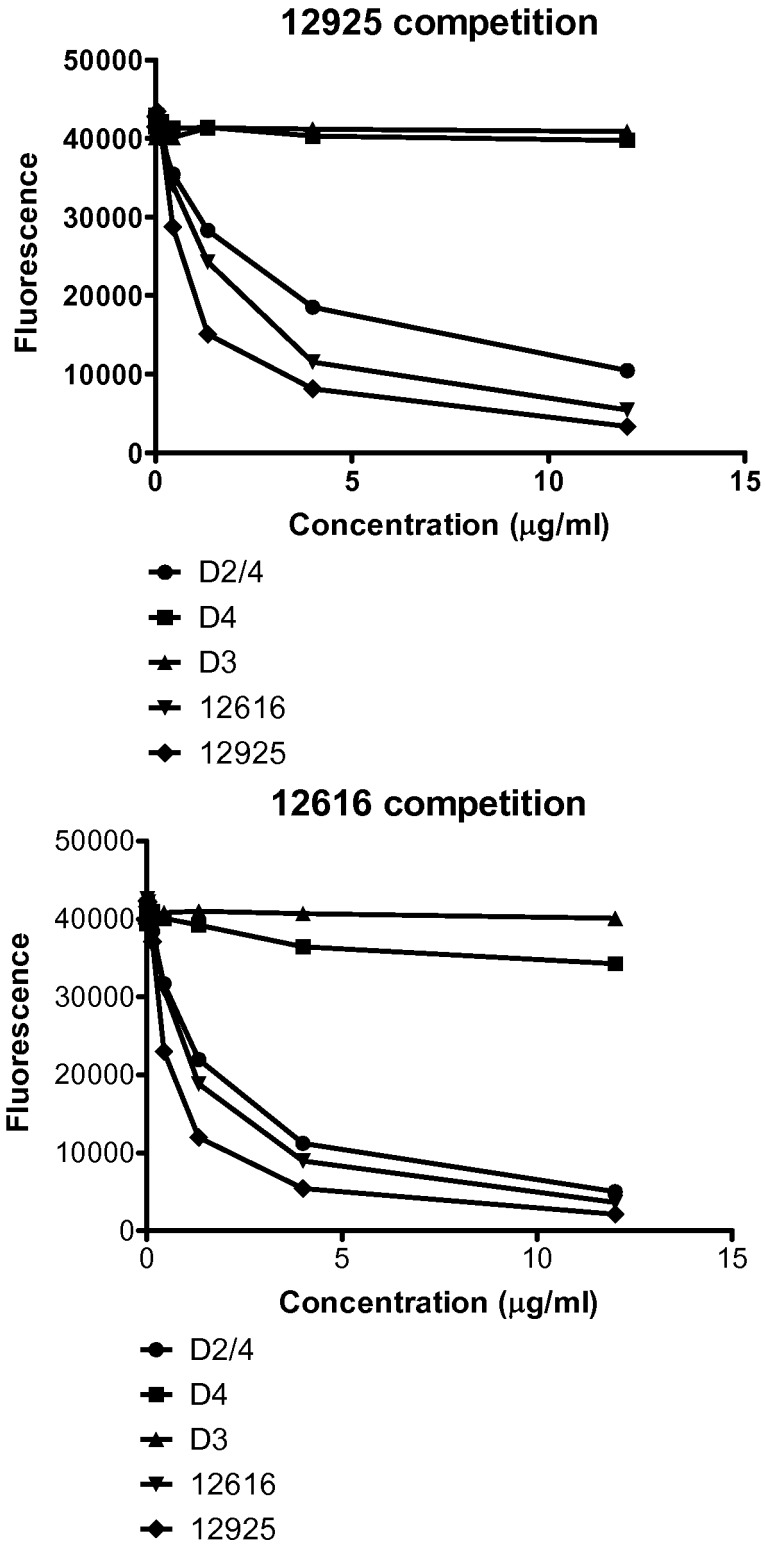

12925 competition
Fluorescence
50000
40000
30000
20000
10000
0
0
5
10
15
Concentration (µg/ml)
D2/4
D4
D3
12616
12925
12616 competition
Fluorescence
50000
40000
30000
20000
10000
0
0
5
10
15
Concentration (µg/ml)
D2/4
D4
D3
12616
12925

Figure 6

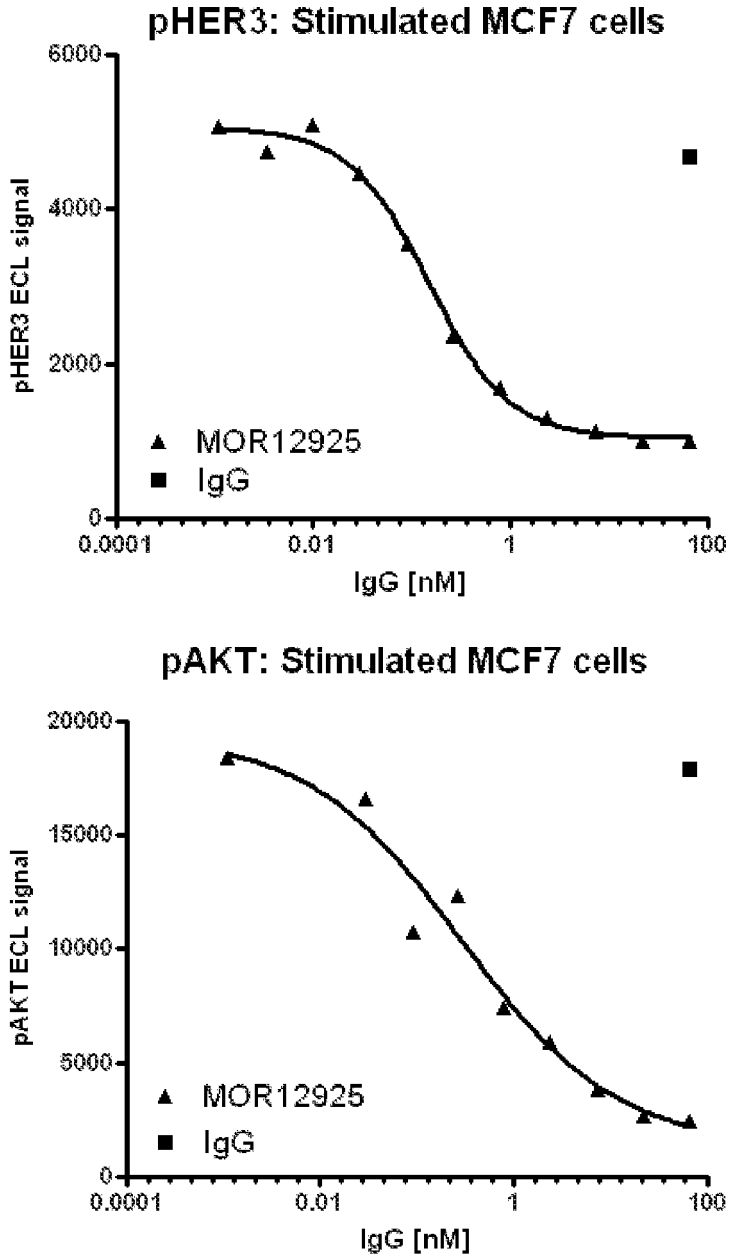

pHER3: Stimulated MCF7 cells
pHER3 ECL signal
6000
4000
2000
0
MOR12925
IgG
0.0001
0.01
1
100
IgG [nM]
pAKT: Stimulated MCF7 cells
pAKT ECL signal
20000
15000
10000
5000
0
MOR12925
IgG
0.0001
0.01
1
100
IgG [nM]

Figure 7

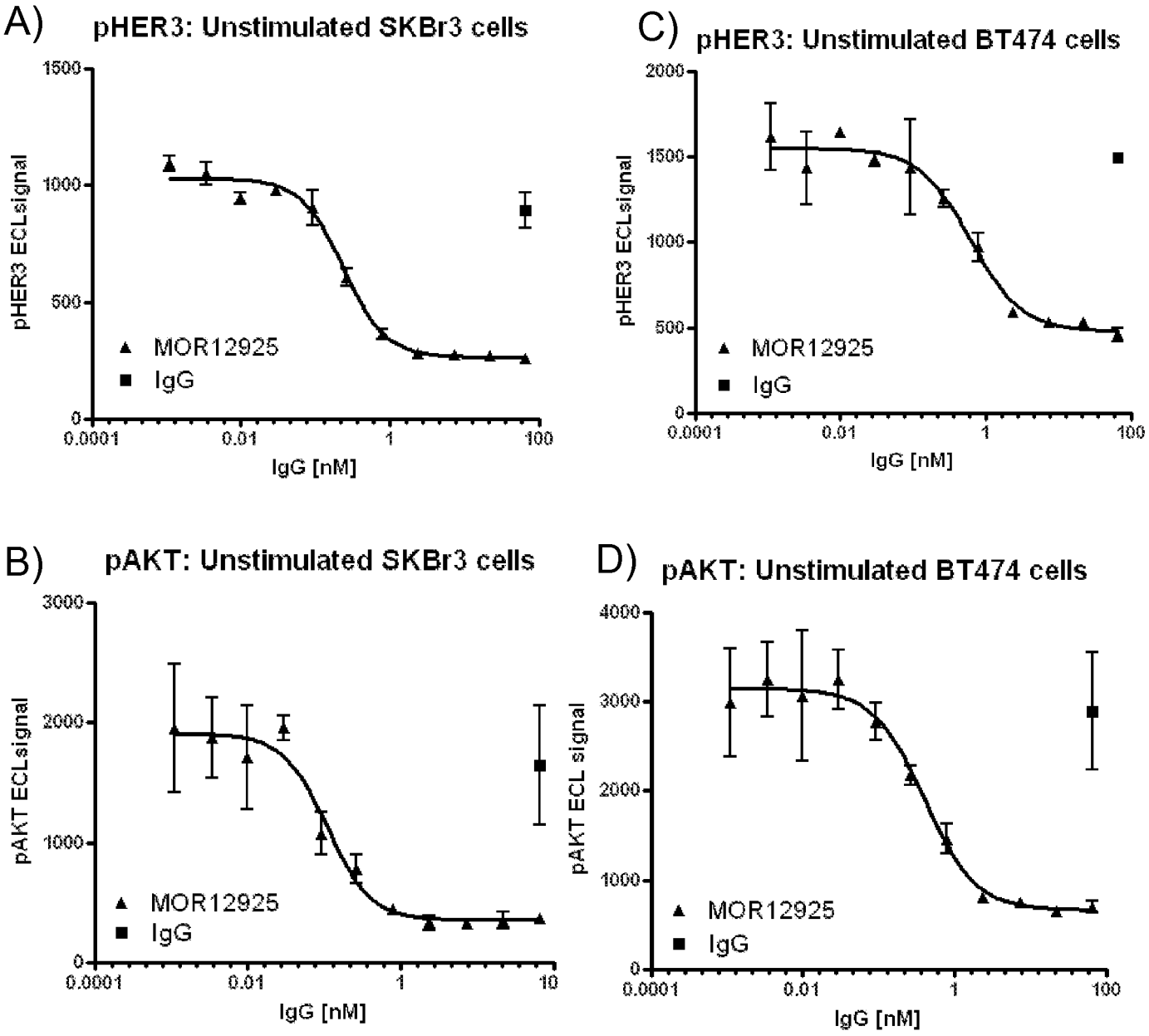
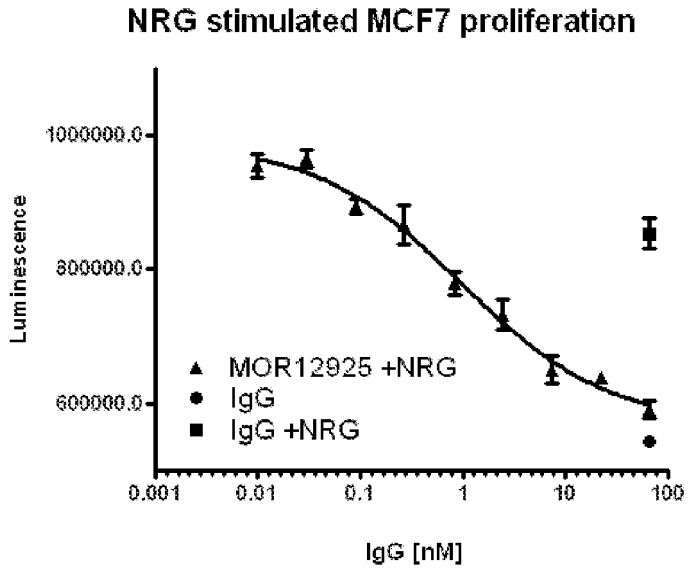
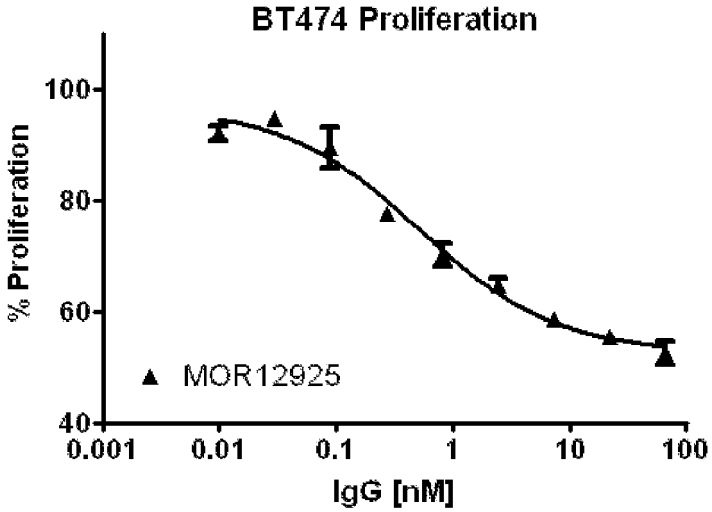

A)
pHER3: Unstimulated SKBr3 cells
pHER3 ECLsignal
1500
1000
500
0
0.0001
0.01
1
100
IgG [nM]
MOR12925
IgG
C)
pHER3: Unstimulated BT474 cells
pHER3 ECLsignal
2000
1500
1000
500
0
0.0001
0.01
1
100
IgG [nM]
MOR12925
IgG
B)
pAKT: Unstimulated SKBr3 cells
pAKT ECLsignal
3000
2000
1000
0
0.0001
0.01
1
10
IgG [nM]
MOR12925
IgG
D)
pAKT: Unstimulated BT474 cells
pAKT ECL signal
4000
3000
2000
1000
0
0.0001
0.01
1
100
IgG [nM]
MOR12925
IgG

Figure 8

A)


NRG stimulated MCF7 proliferation
Luminescence
1000000.0
800000.0
600000.0
MOR12925 +NRG
IgG
IgG +NRG
0.001
0.01
0.1
1
10
100
IgG [nM]

B)


BT474 Proliferation
% Proliferation
100
80
60
40
MOR12925
0.001
0.01
0.1
1
10
100
IgG [nM]

C)

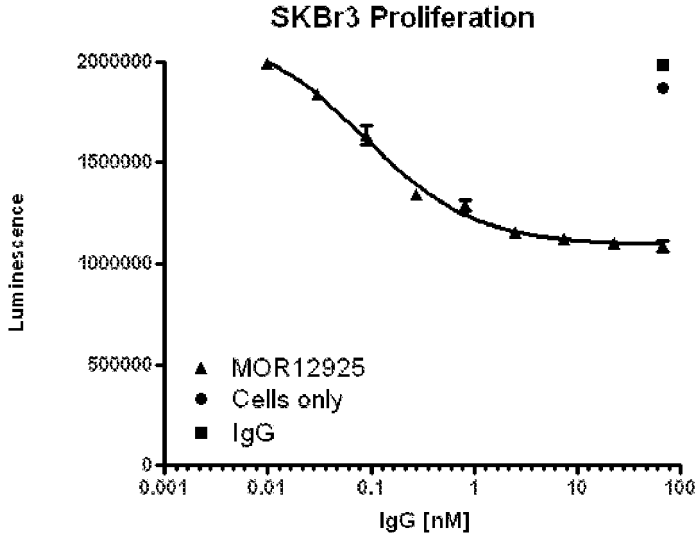
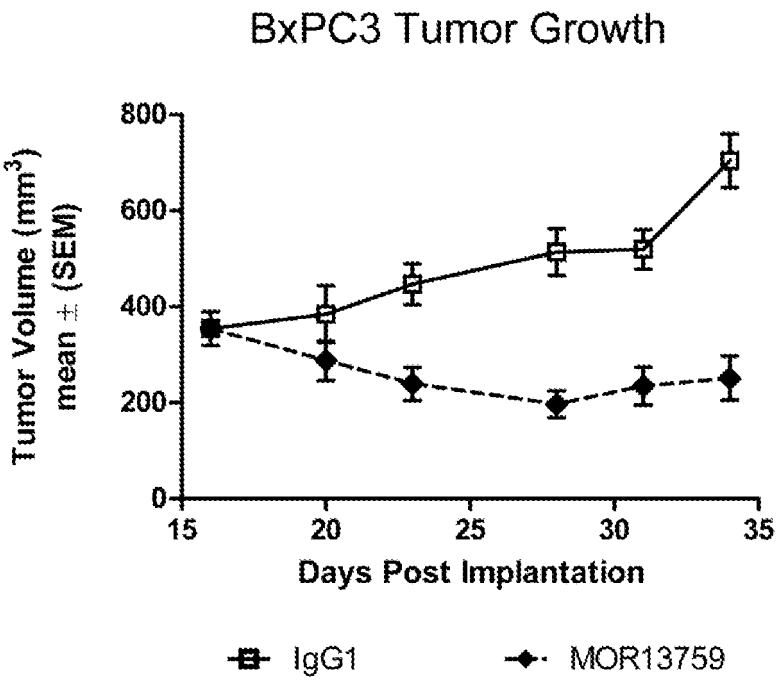
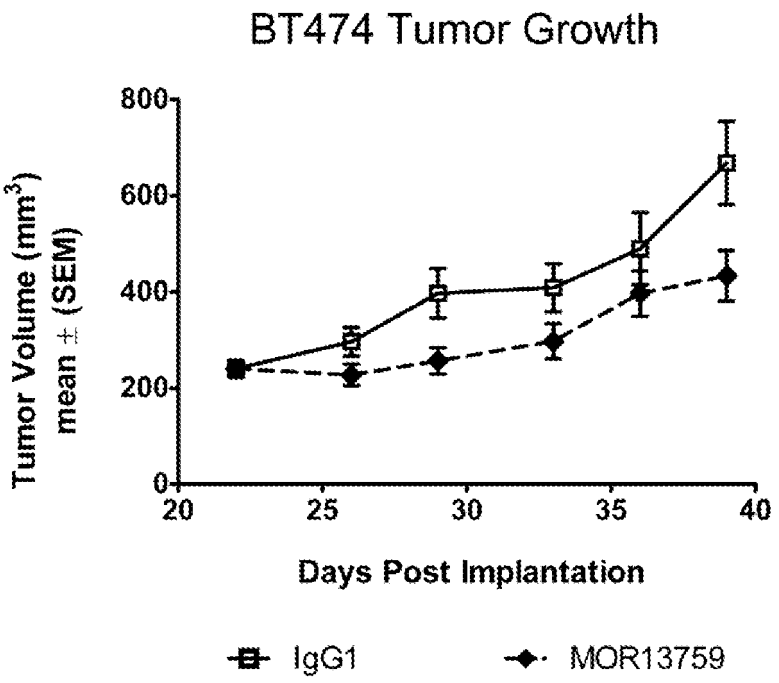

SKBr3 Proliferation
Luminescence
2000000
1500000
1000000
500000
0
MOR12925
Cells only
IgG
0.001
0.01
0.1
1
10
100
IgG [nM]

Figure 9

A)


BxPC3 Tumor Growth
Tumor Volume (mm3) mean ± (SEM)
800
600
400
200
0
15
20
25
30
35
Days Post Implantation
IgG1
MOR13759

B)


BT474 Tumor Growth
Tumor Volume (mm3) mean ± (SEM)
800
600
400
200
0
20
25
30
35
40
Days Post Implantation
IgG1
MOR13759