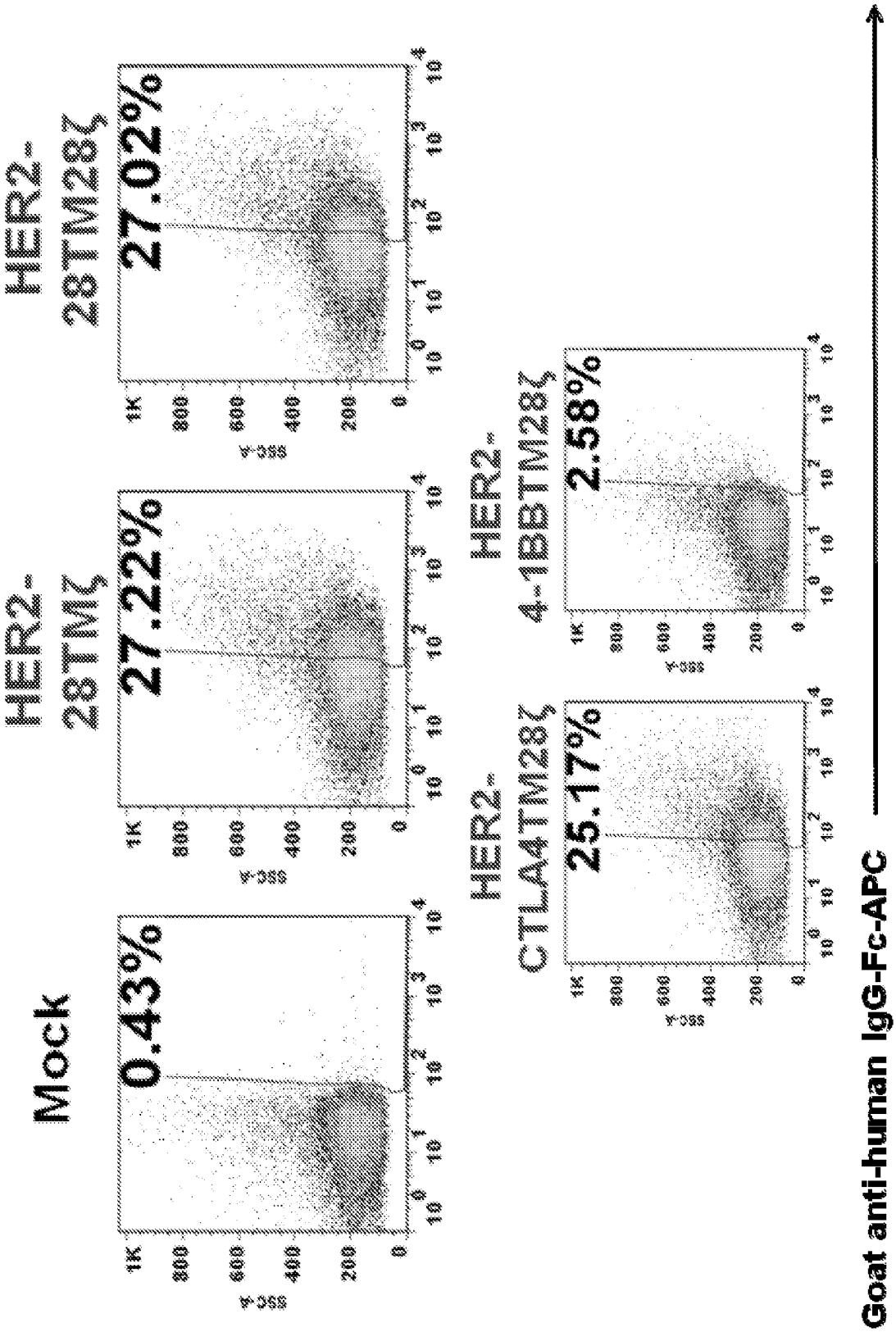

Mock
0.43%
HER2-
28TMζ
27.22%
HER2-
28TM28ζ
27.02%
HER2-
CTLA4TM28ζ
25.17%
HER2-
4-1BBTM28ζ
2.58%
SSC-A
1K
800
600
400
200
0
10^0
10^1
10^2
10^3
10^4
Goat anti-human IgG-Fc-APC

FIG. 1

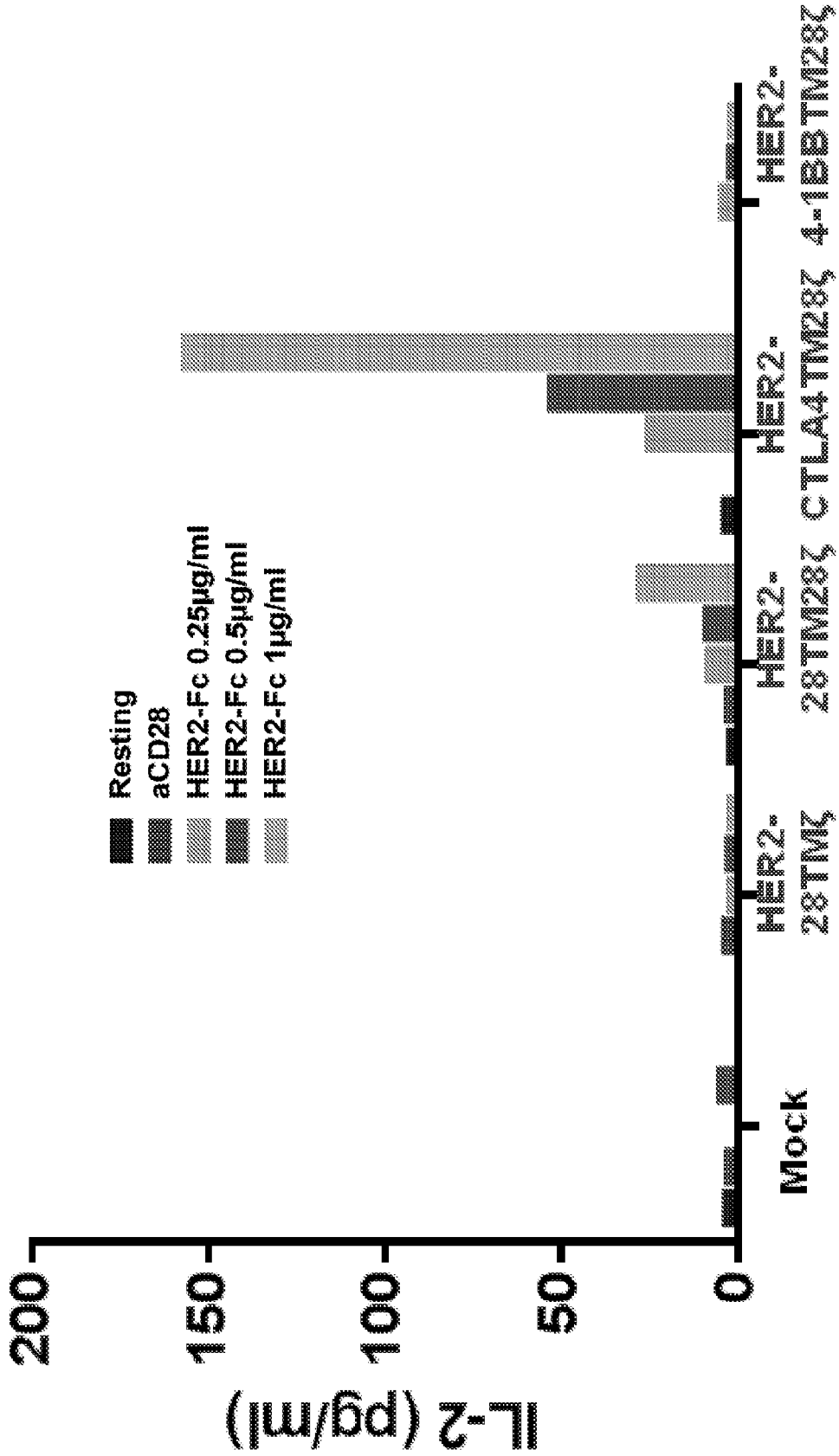

IL-2 (pg/ml)
200
150
100
50
0
Resting
aCD28
HER2-Fc 0.25µg/ml
HER2-Fc 0.5µg/ml
HER2-Fc 1µg/ml
Mock
HER2-28TMζ
HER2-28TM28ζ
HER2-CTLA4TM28ζ
HER2-4-1BBTM28ζ

FIG. 2

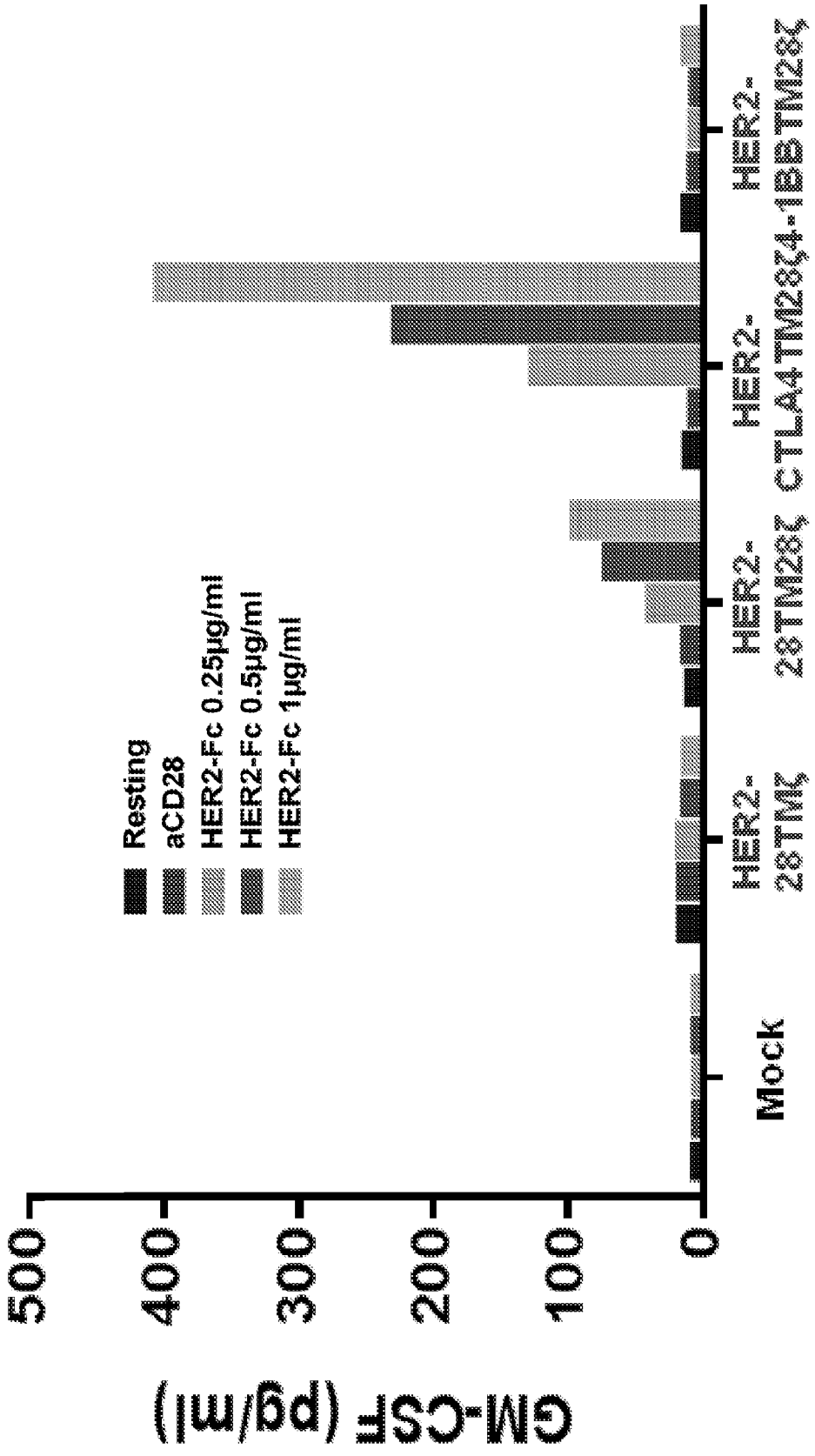

GM-CSF (pg/ml)
500
400
300
200
100
0
Resting
aCD28
HER2-Fc 0.25µg/ml
HER2-Fc 0.5µg/ml
HER2-Fc 1µg/ml
Mock
HER2-28TMζ
HER2-28TM28ζ
HER2-CTLA4TM28ζ4-1BBTM28ζ

FIG. 3

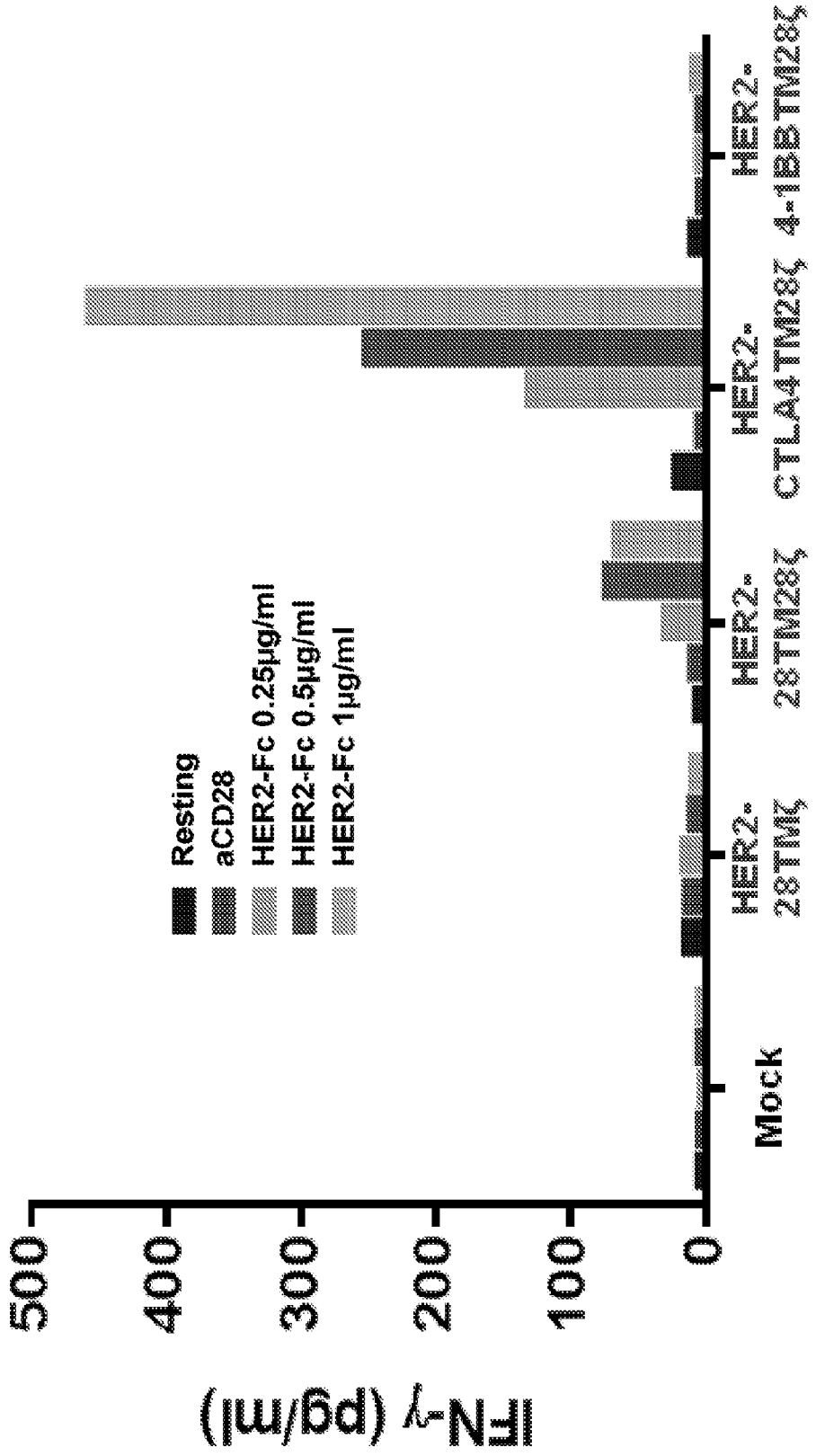

IFN-γ (pg/ml)
500
400
300
200
100
0
Resting
aCD28
HER2-Fc 0.25µg/ml
HER2-Fc 0.5µg/ml
HER2-Fc 1µg/ml
Mock
HER2-28TMζ
HER2-28TM28ζ
HER2-CTLA4TM28ζ
HER2-4-1BBTM28ζ

FIG. 4

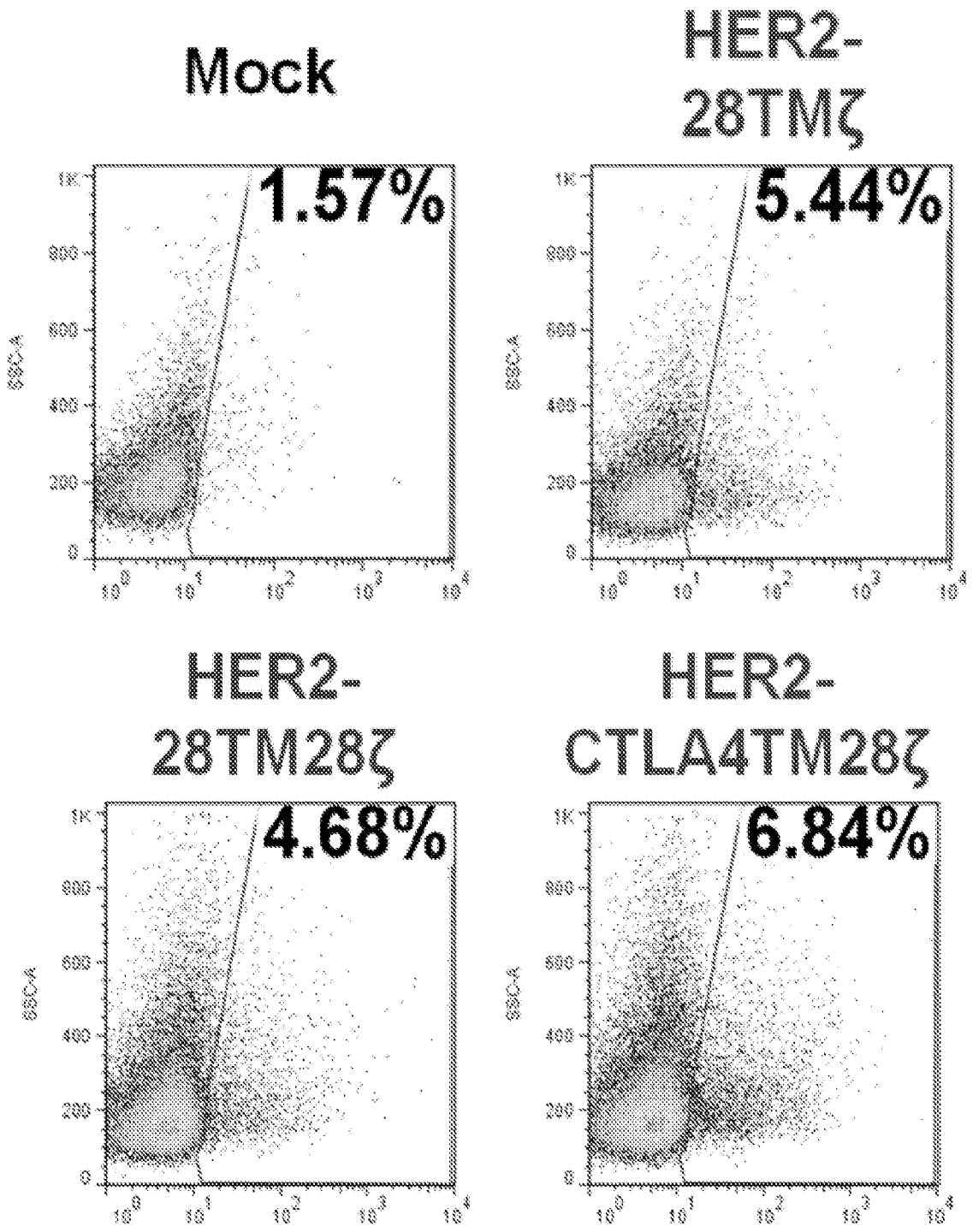

Mock
1.57%
HER2-28TMζ
5.44%
HER2-28TM28ζ
4.68%
HER2-CTLA4TM28ζ
6.84%
SSC-A

FIG. 5

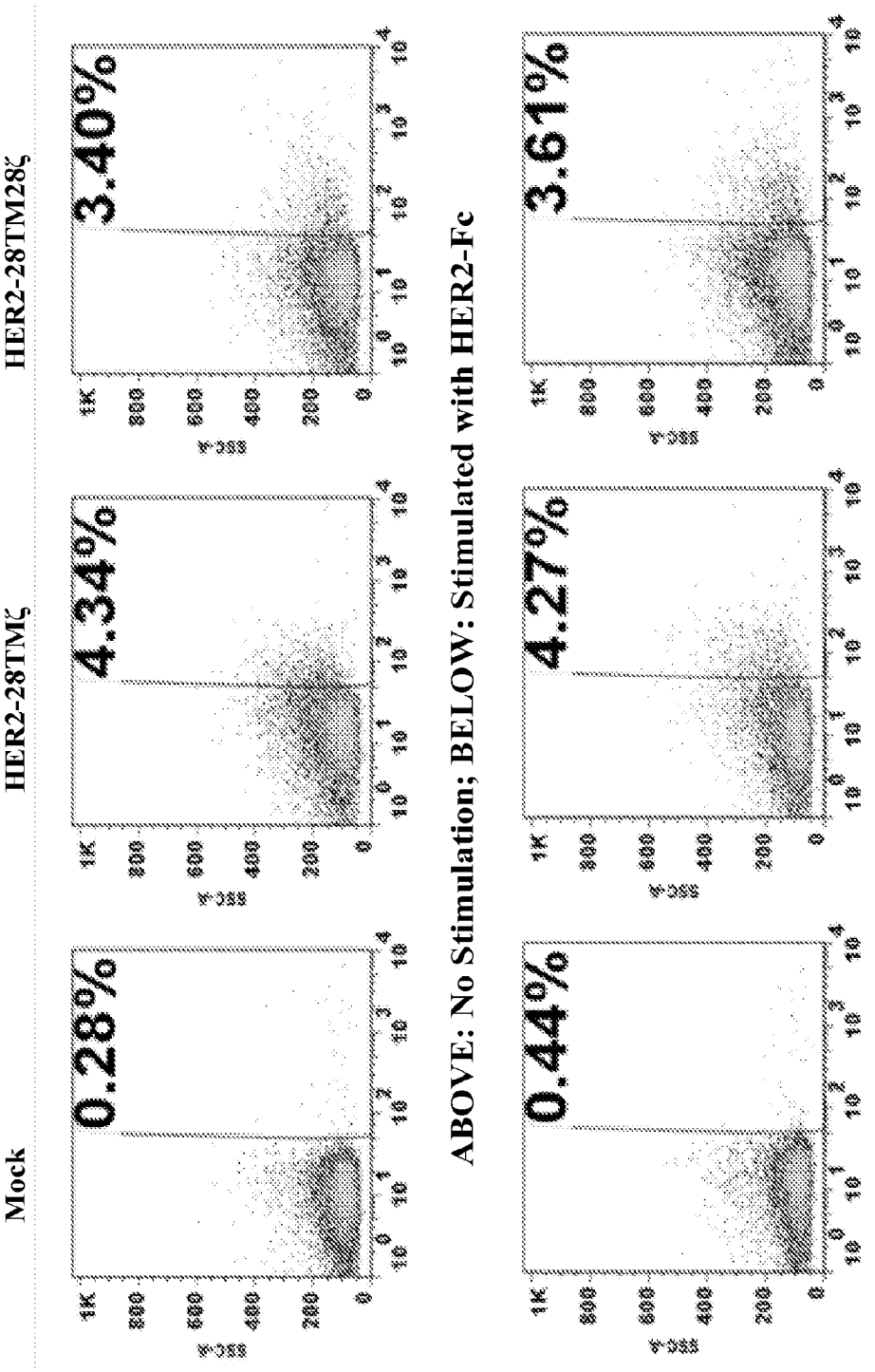

A
Mock
HER2-28TMζ
HER2-28TM28ζ
0.28%
4.34%
3.40%
ABOVE: No Stimulation; BELOW: Stimulated with HER2-Fc
0.44%
4.27%
3.61%

FIG. 6A

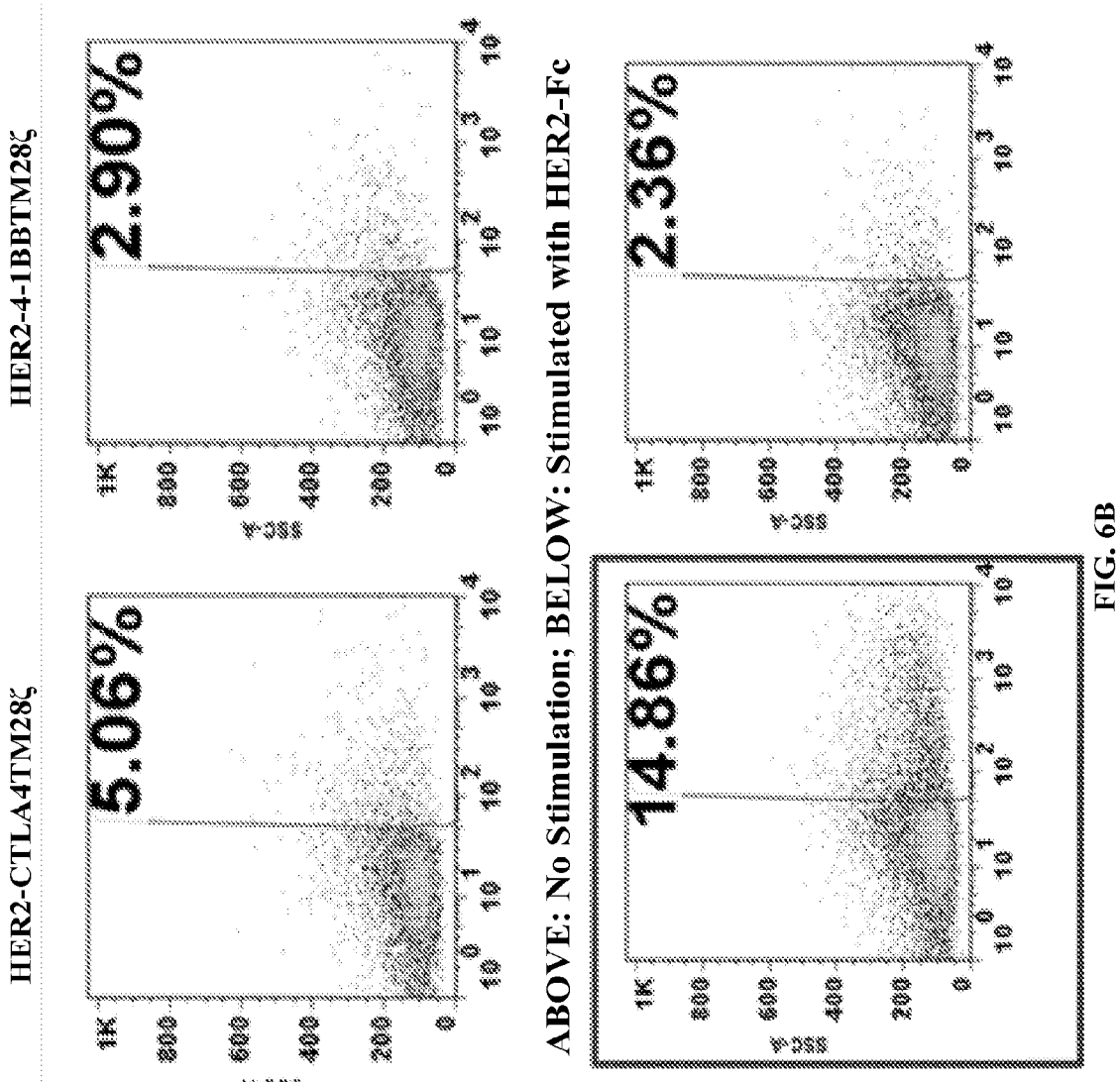

B
HER2-CTLA4TM28ζ
HER2-4-1BBTM28ζ
5.06%
2.90%
ABOVE: No Stimulation; BELOW: Stimulated with HER2-Fc
14.86%
2.36%

FIG. 6B

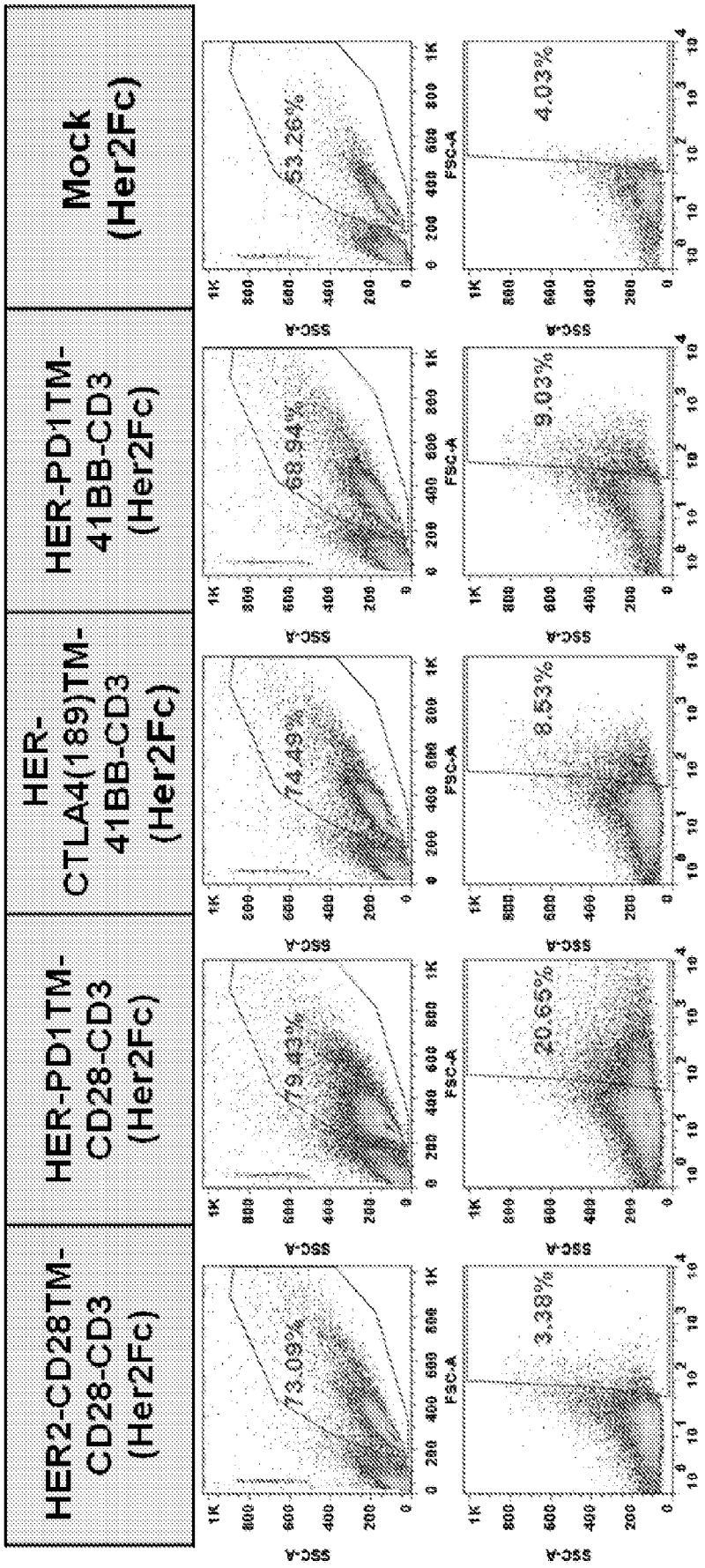

HER2-CD28TM-CD28-CD3 (Her2Fc)
HER-PD1TM-CD28-CD3 (Her2Fc)
HER-CTLA4(189)TM-41BB-CD3 (Her2Fc)
HER-PD1TM-41BB-CD3 (Her2Fc)
Mock (Her2Fc)
73.03%
3.38%
79.43%
20.65%
74.49%
8.53%
68.94%
9.03%
53.26%
4.03%
SSC-A
FSC-A

FIG. 7

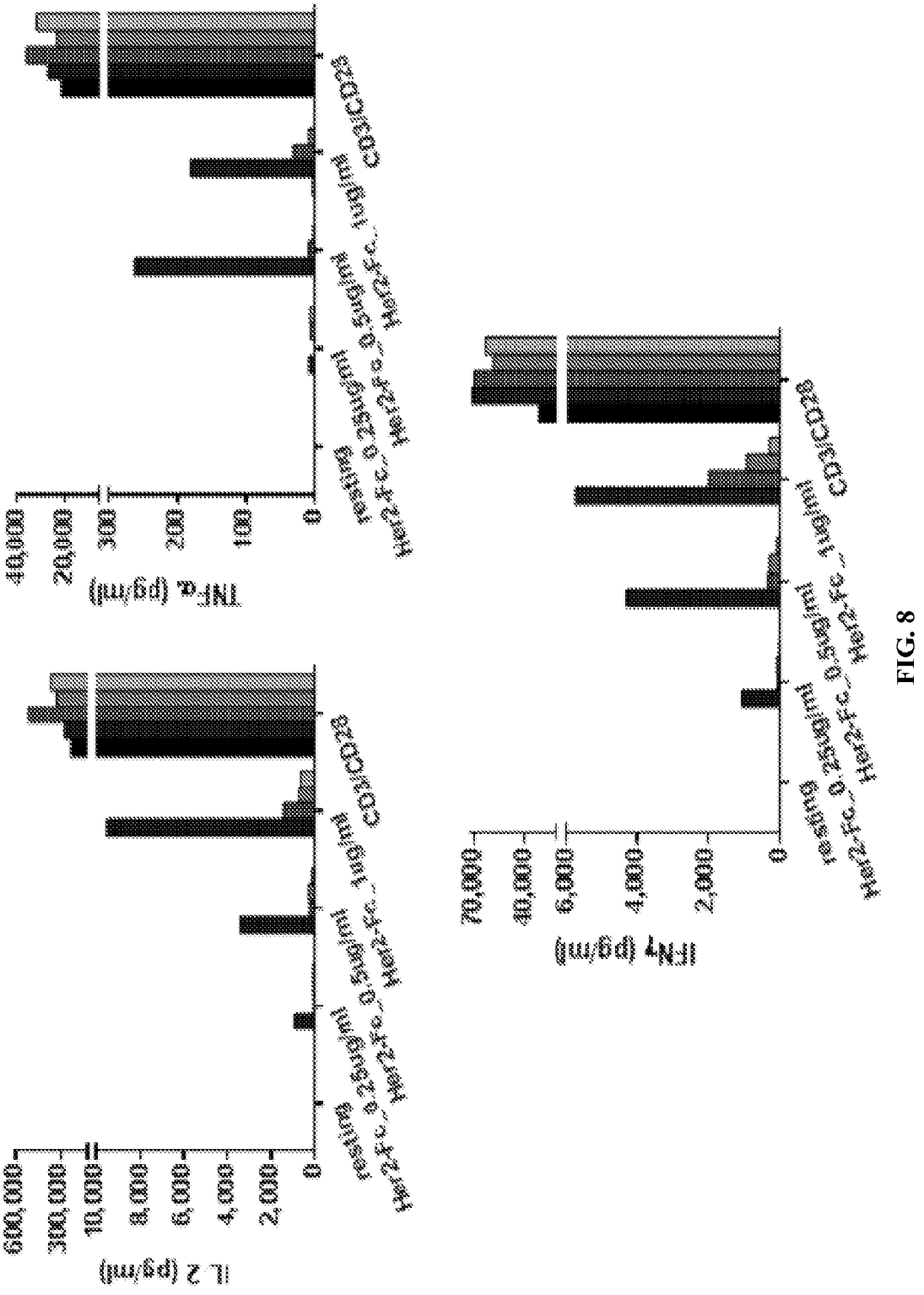

IL-2 (pg/ml)
600,000
300,000
10,000
8,000
6,000
4,000
2,000
0
resting
Her2-Fc_0.25ug/ml
Her2-Fc_0.5ug/ml
Her2-Fc_1ug/ml
CD3/CD28
TNFα (pg/ml)
40,000
20,000
300
200
100
0
resting
Her2-Fc_0.25ug/ml
Her2-Fc_0.5ug/ml
Her2-Fc_1ug/ml
CD3/CD28
IFNγ (pg/ml)
70,000
40,000
6,000
4,000
2,000
0
resting
Her2-Fc_0.25ug/ml
Her2-Fc_0.5ug/ml
Her2-Fc_1ug/ml
CD3/CD28

FIG. 8

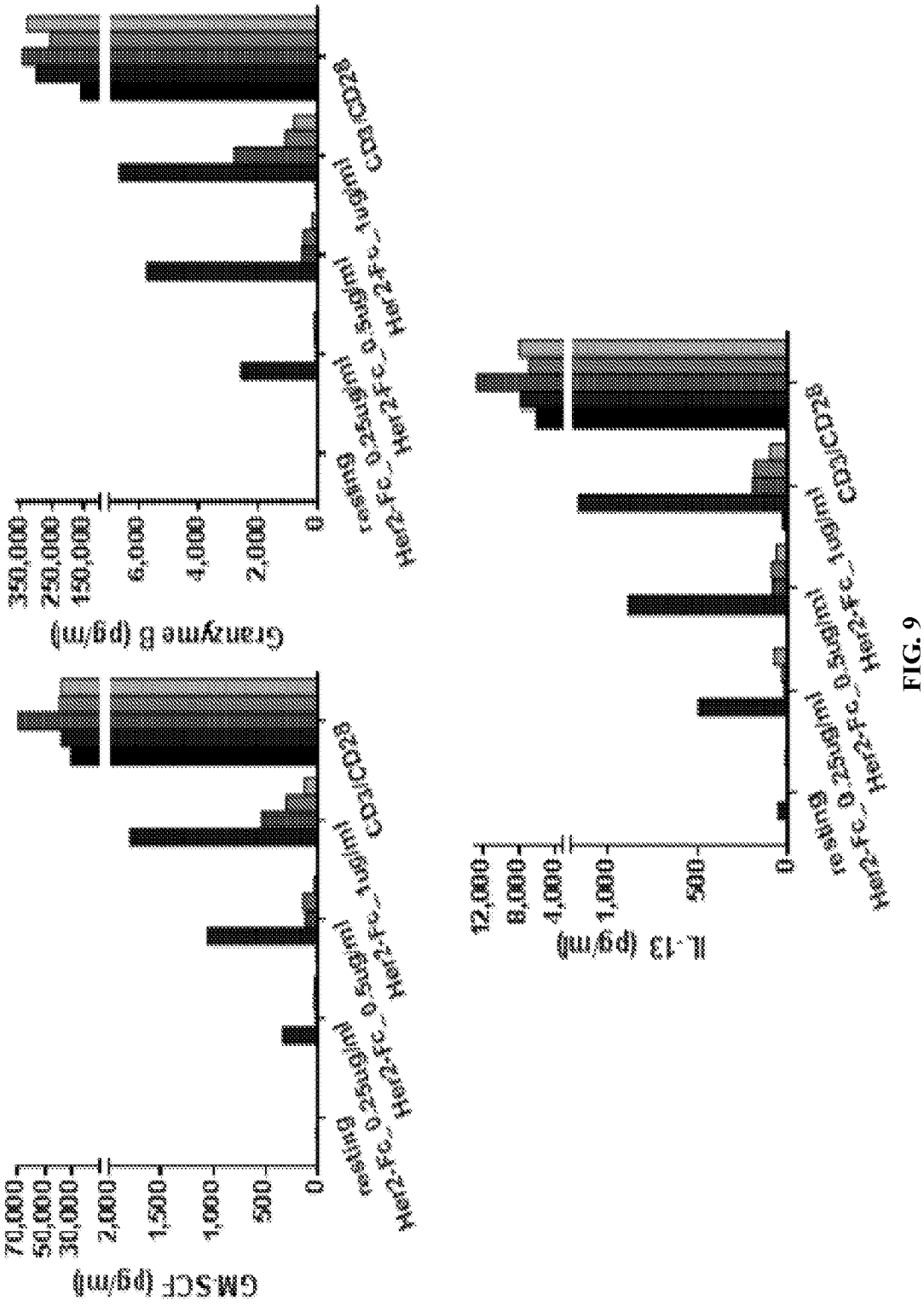

GM-SCF (pg/ml)
70,000
50,000
30,000
2,000
1,500
1,000
500
0
Granzyme B (pg/ml)
350,000
250,000
150,000
6,000
4,000
2,000
0
IL-13 (pg/ml)
12,000
8,000
4,000
1,000
500
0
media
Bunaes
Her2-Fc
Her2-Fc_0.25ug/ml
Her2-Fc_0.5ug/ml
Her2-Fc_1ug/ml
CD3/CD28

FIG. 9

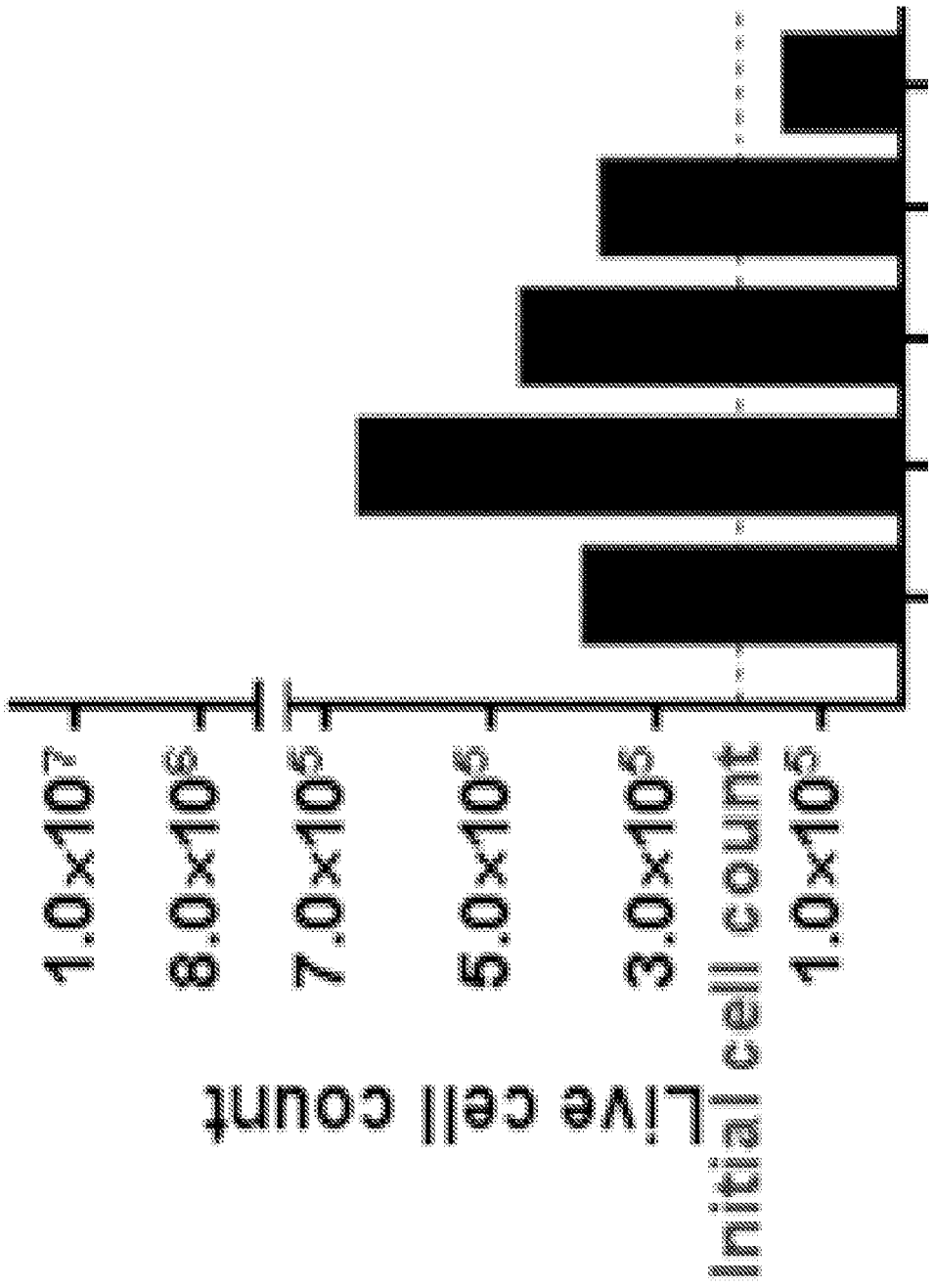

Live cell count
1.0x10^7
8.0x10^6
7.0x10^5
5.0x10^5
3.0x10^5
1.0x10^5
Initial cell count

FIG. 10