Figure 1

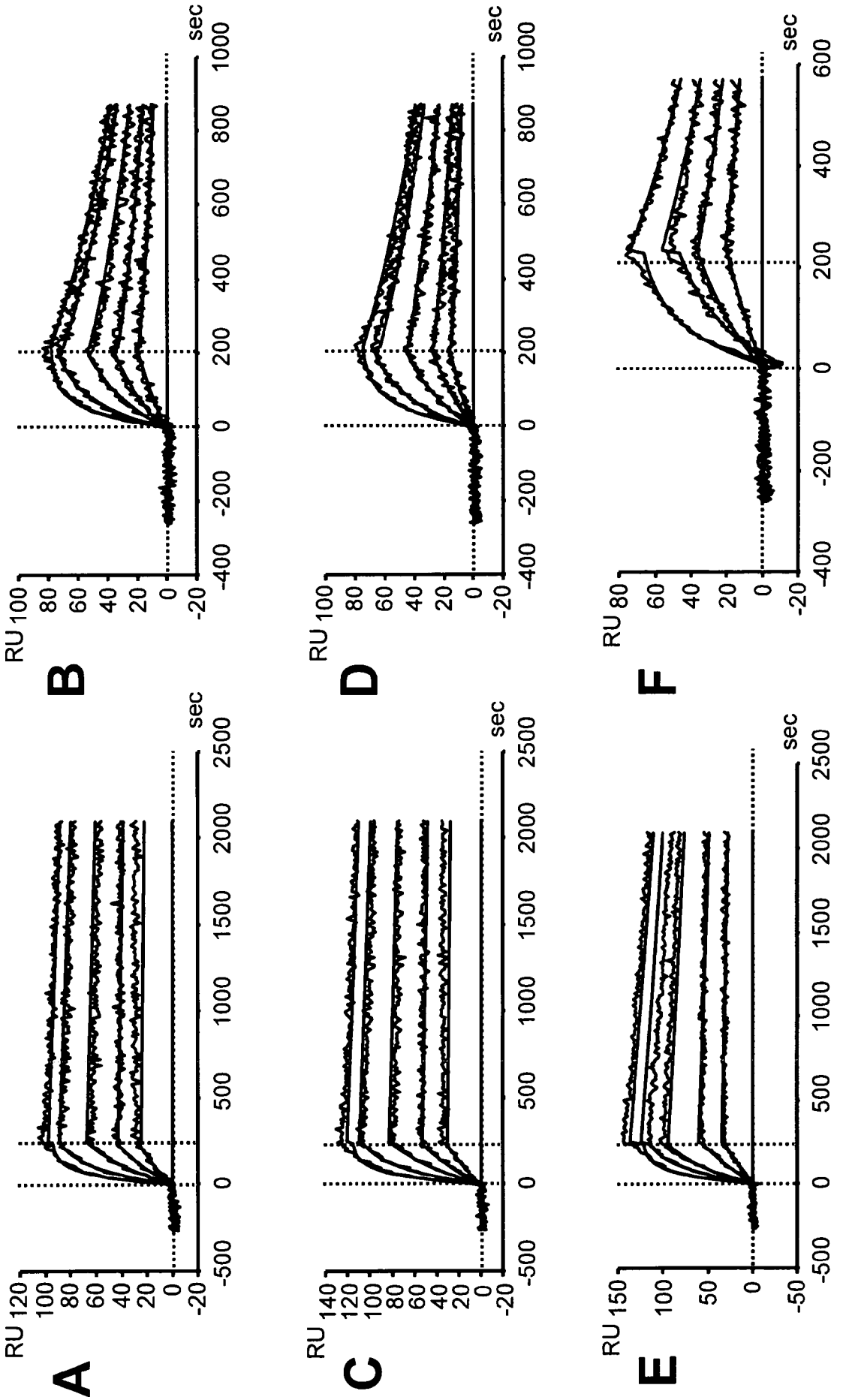


Figure 2

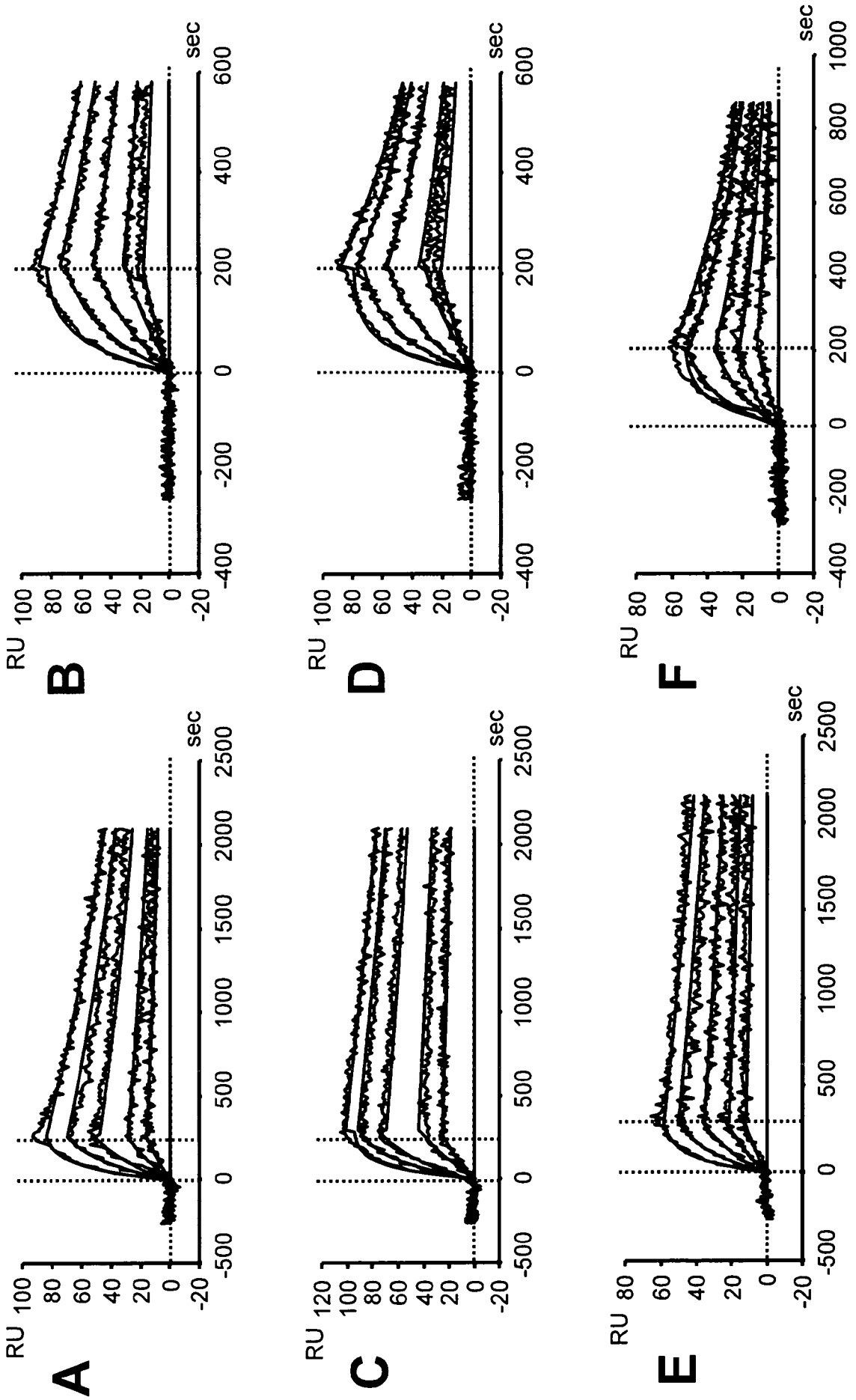


Figure 3

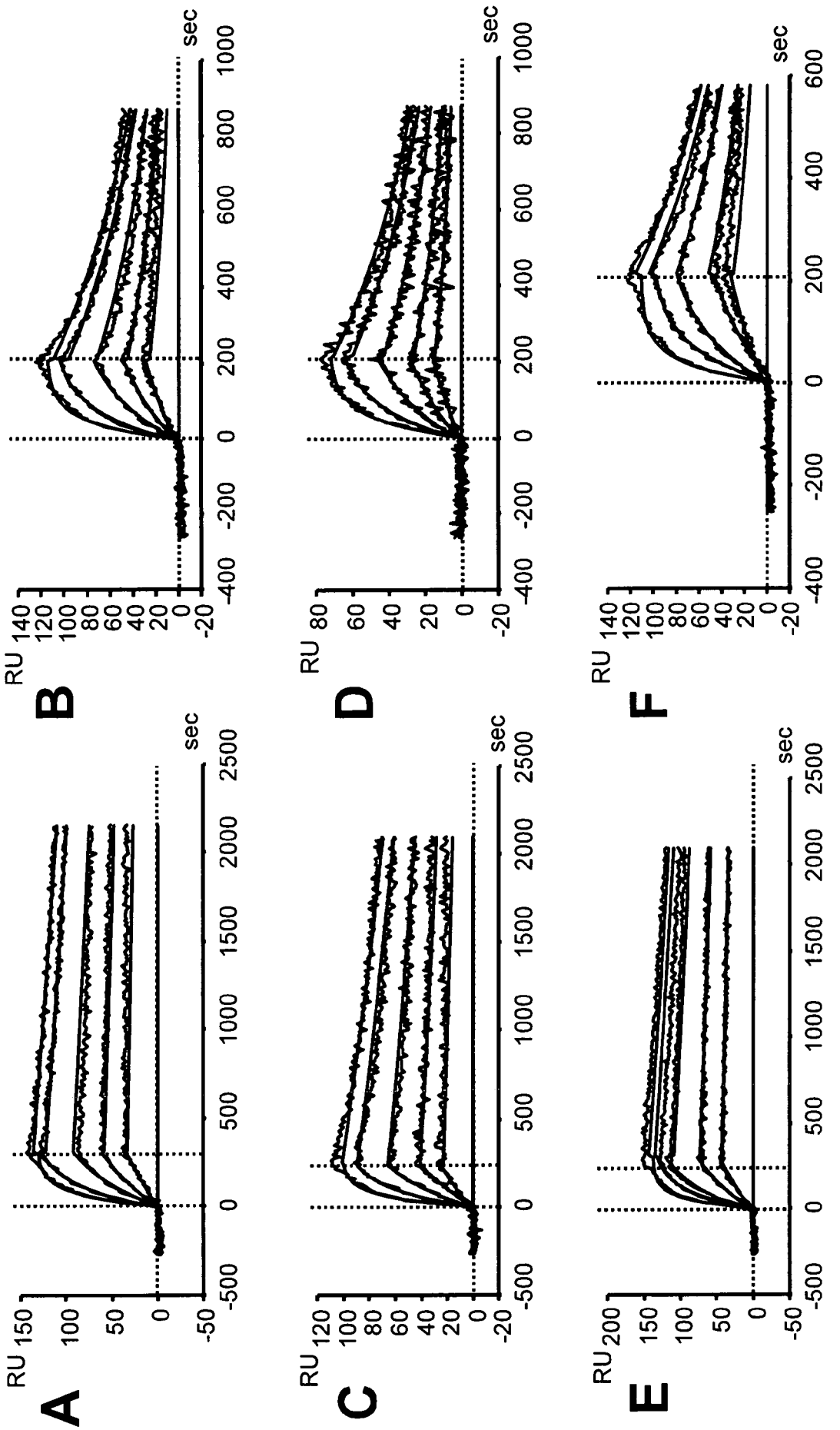

A
RU 150
100
50
0
-50
-500
0
500
1000
1500
2000
2500
sec
B
RU 140
120
100
80
60
40
20
0
-20
-400
-200
0
200
400
600
800
1000
sec
C
RU 120
100
80
60
40
20
0
-20
-500
0
500
1000
1500
2000
2500
sec
D
RU 80
60
40
20
0
-20
-400
-200
0
200
400
600
800
1000
sec
E
RU 200
150
100
50
0
-50
-500
0
500
1000
1500
2000
2500
sec
F
RU 140
120
100
80
60
40
20
0
-20
-400
-200
0
200
400
600
sec

Figure 4

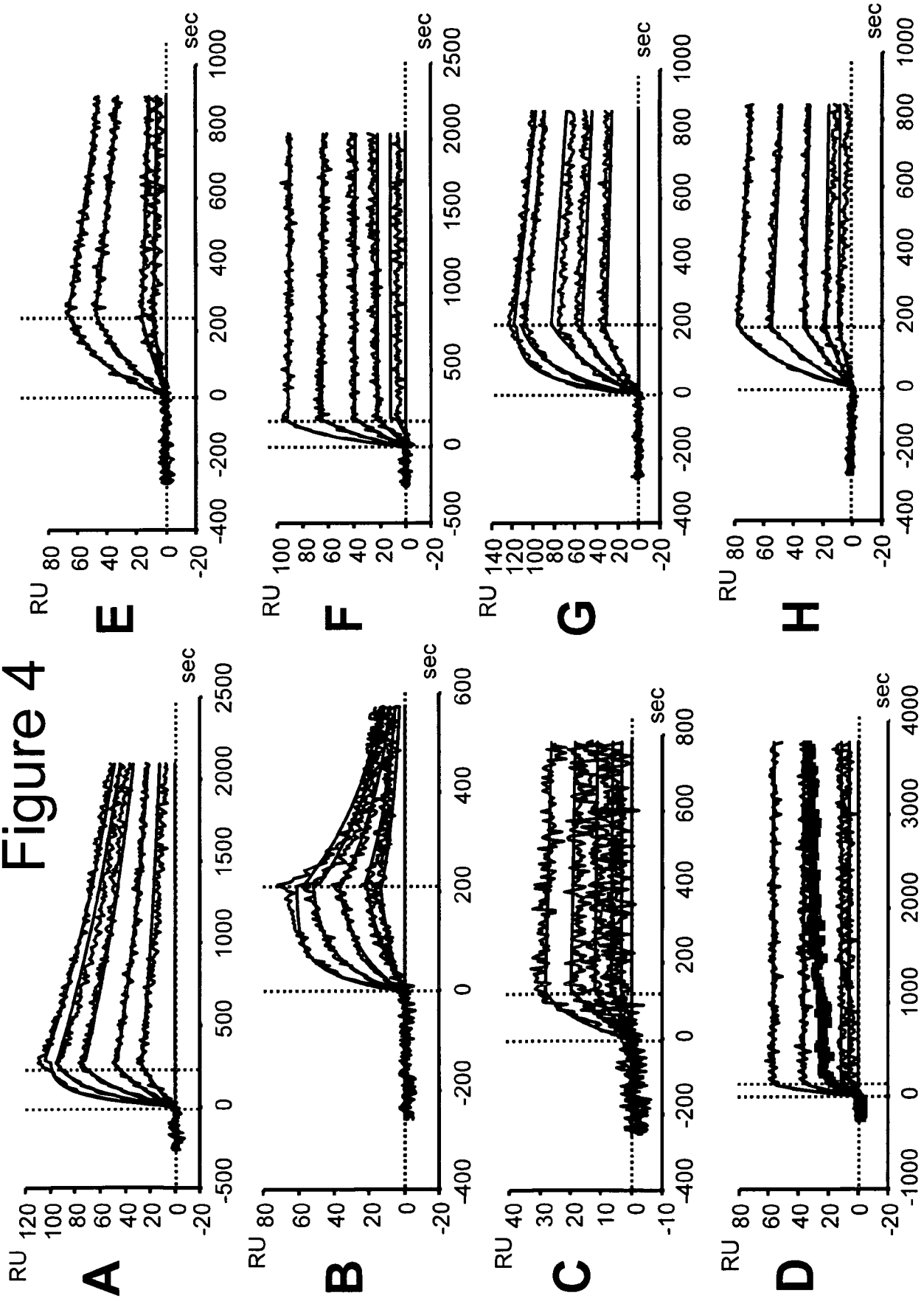


Figure 5

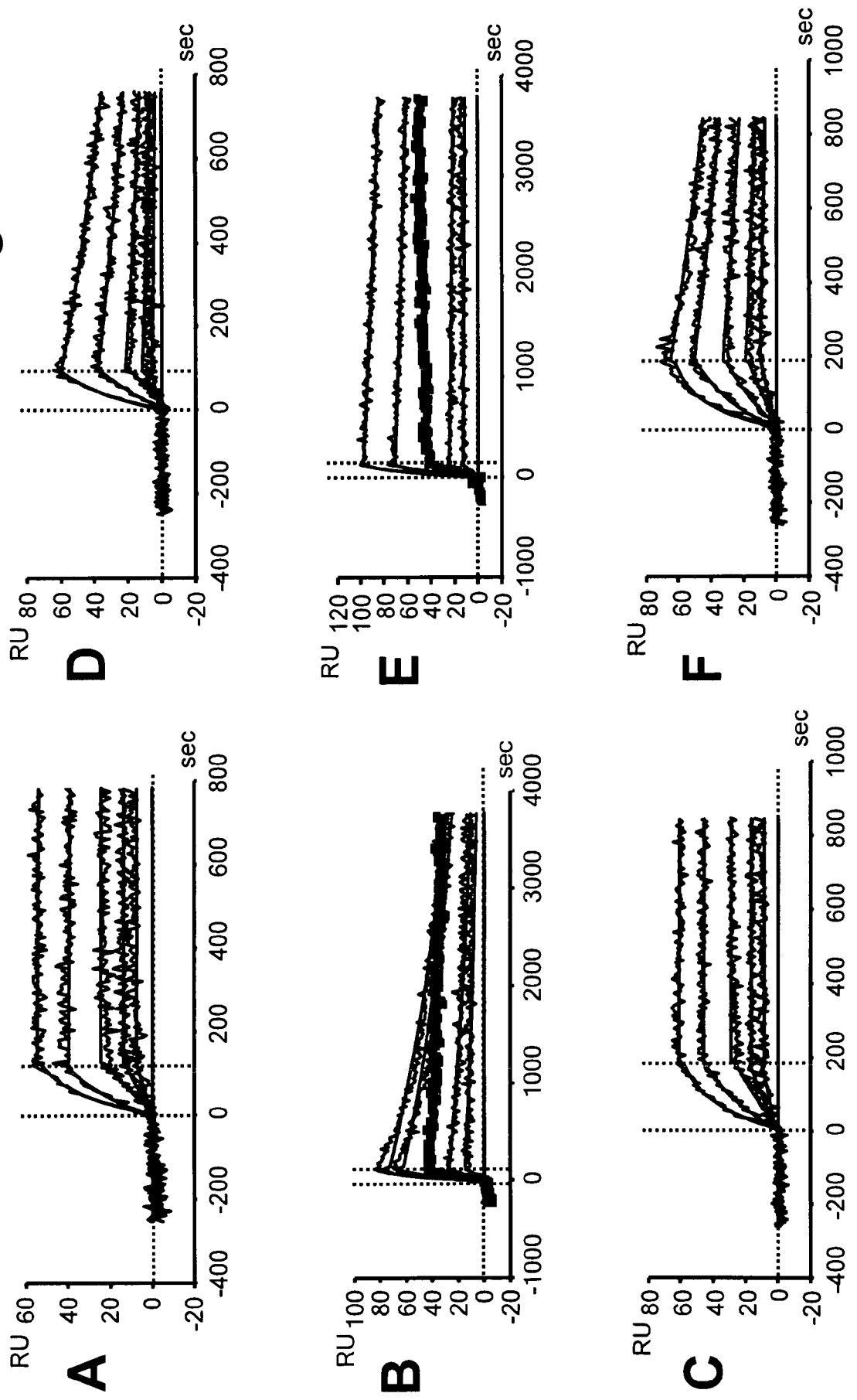


Figure 6A

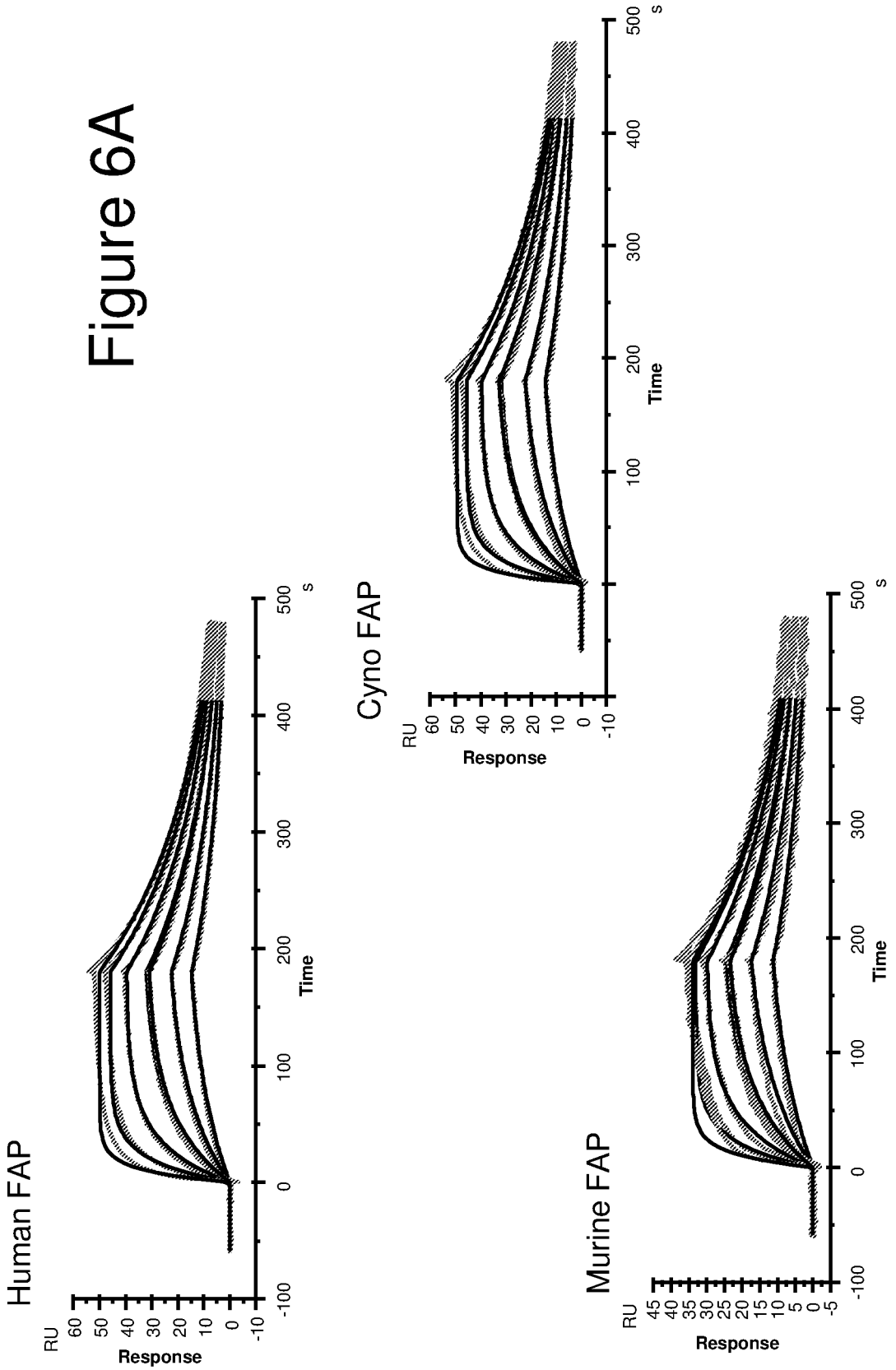


Figure 6B

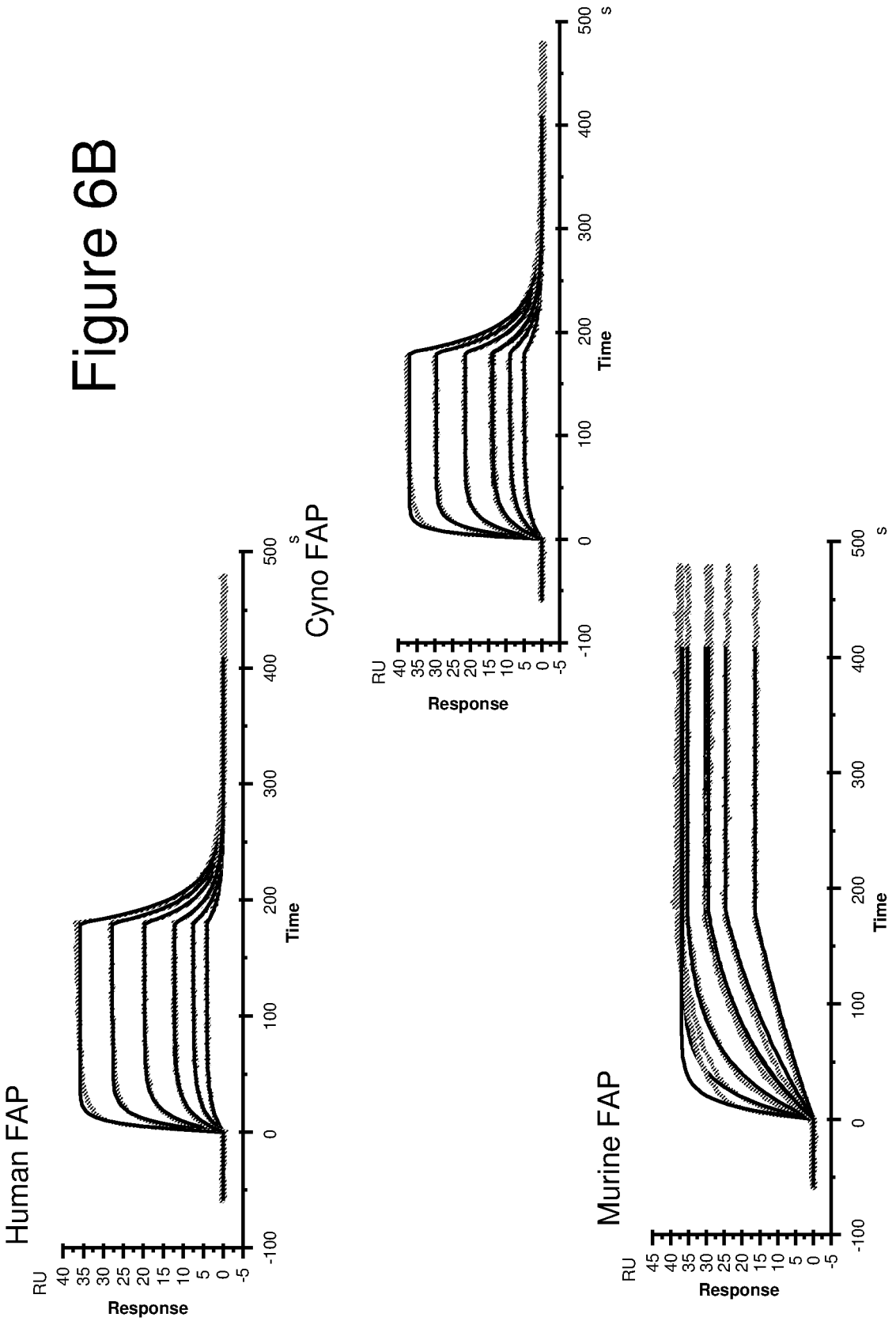


Figure 6C

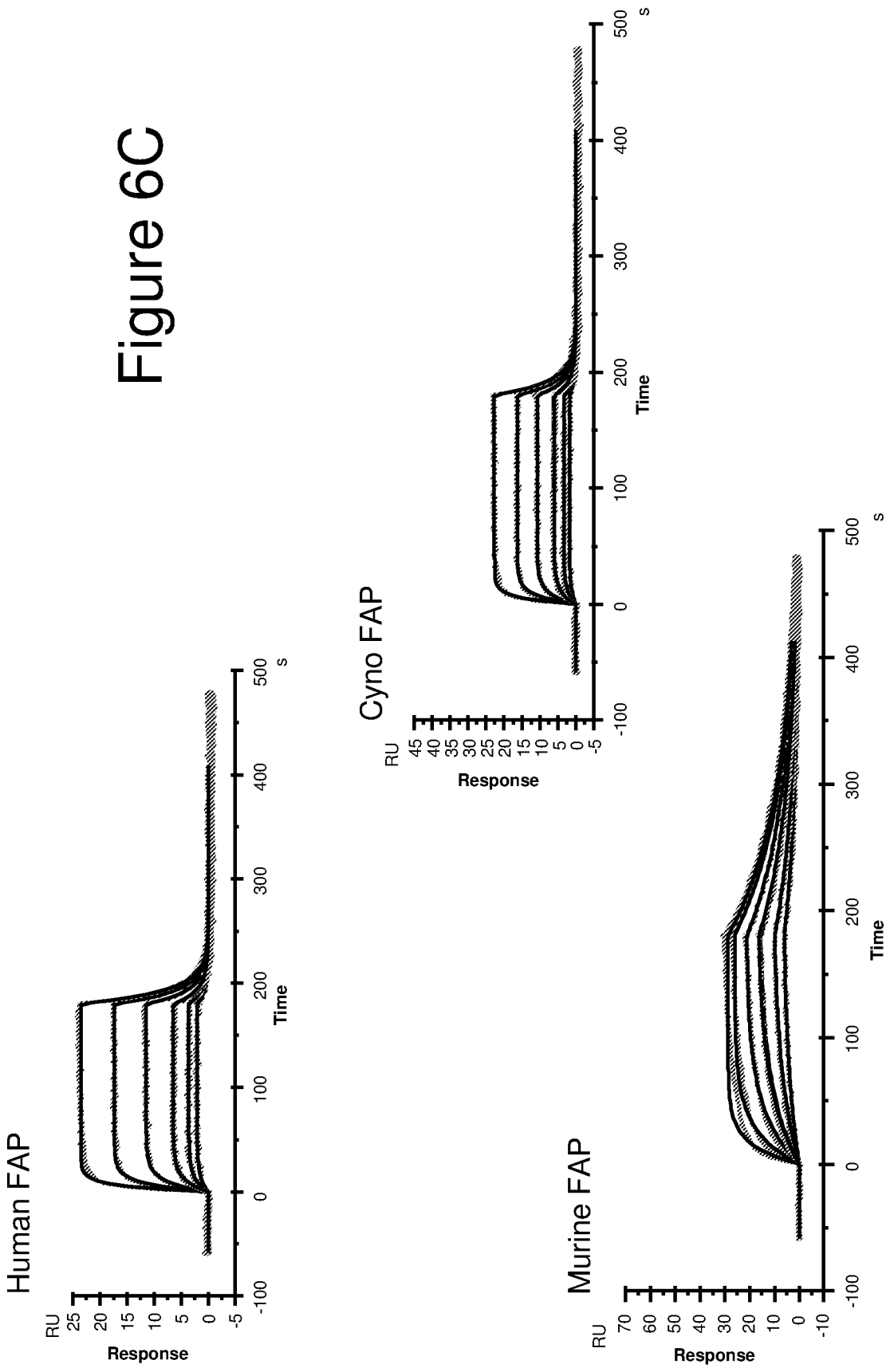

Human FAP
RU
25
20
15
10
5
0
-5
Response
-100
0
100
200
300
400
500
Time
s
Cyno FAP
RU
45
40
35
30
25
20
15
10
5
0
-5
Response
-100
0
100
200
300
400
500
Time
s
Murine FAP
RU
70
60
50
40
30
20
10
0
-10
Response
-100
0
100
200
300
400
500
Time
s

Figure 7A

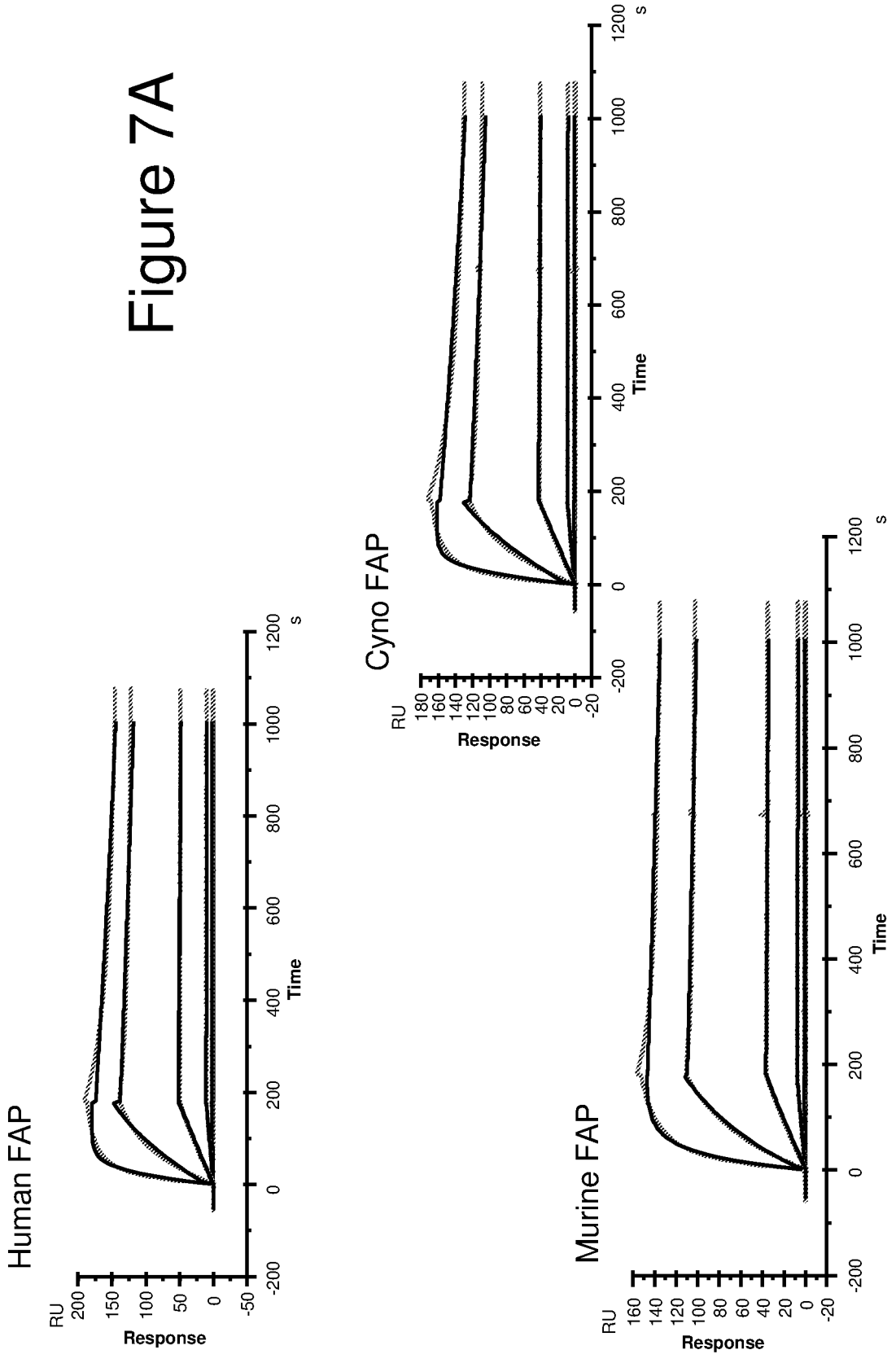


Figure 7B

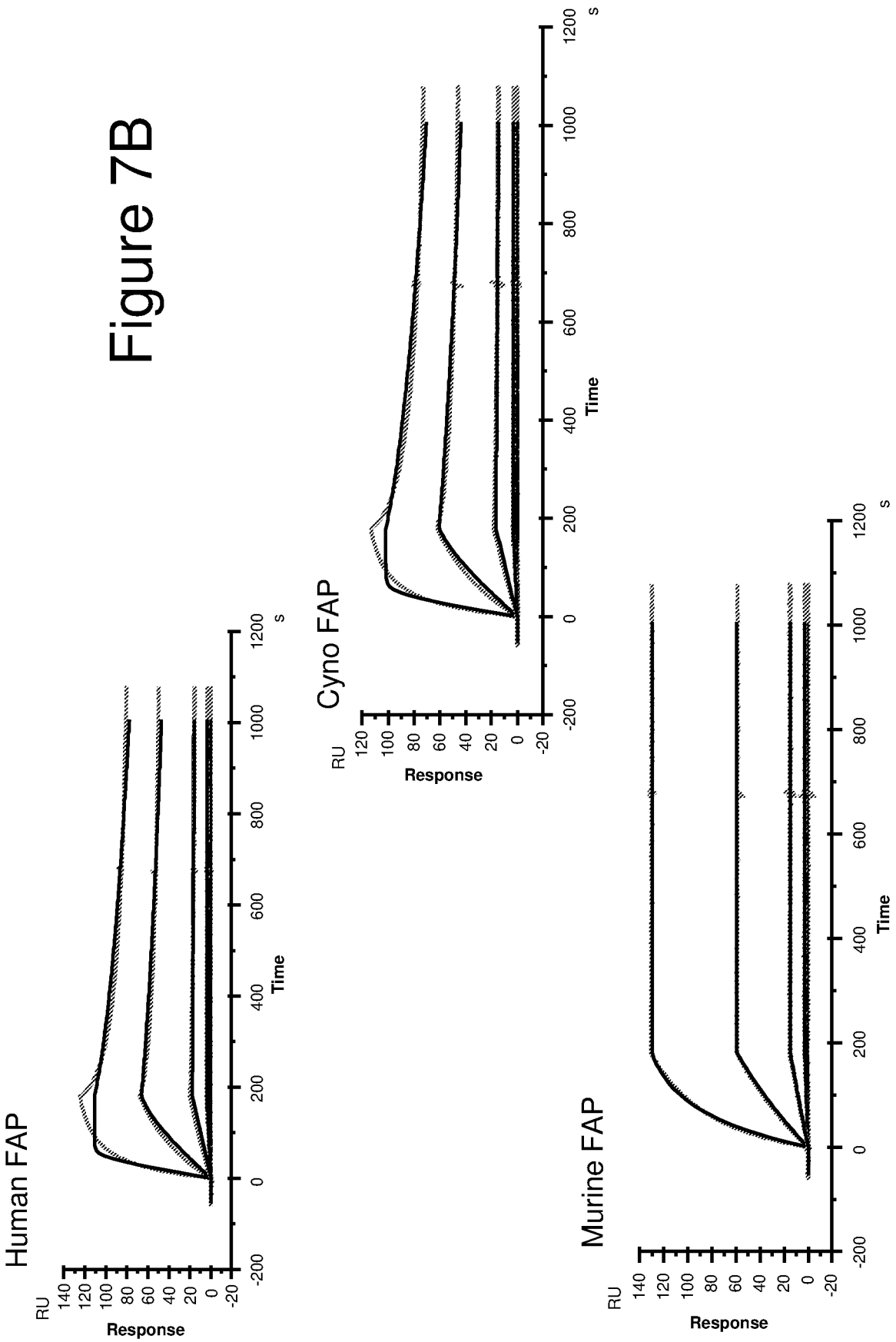

Human FAP
Cyno FAP
Murine FAP
RU
Response
Time
s
140
120
100
80
60
40
20
0
-20
-200
200
400
600
800
1000
1200

Figure 7C

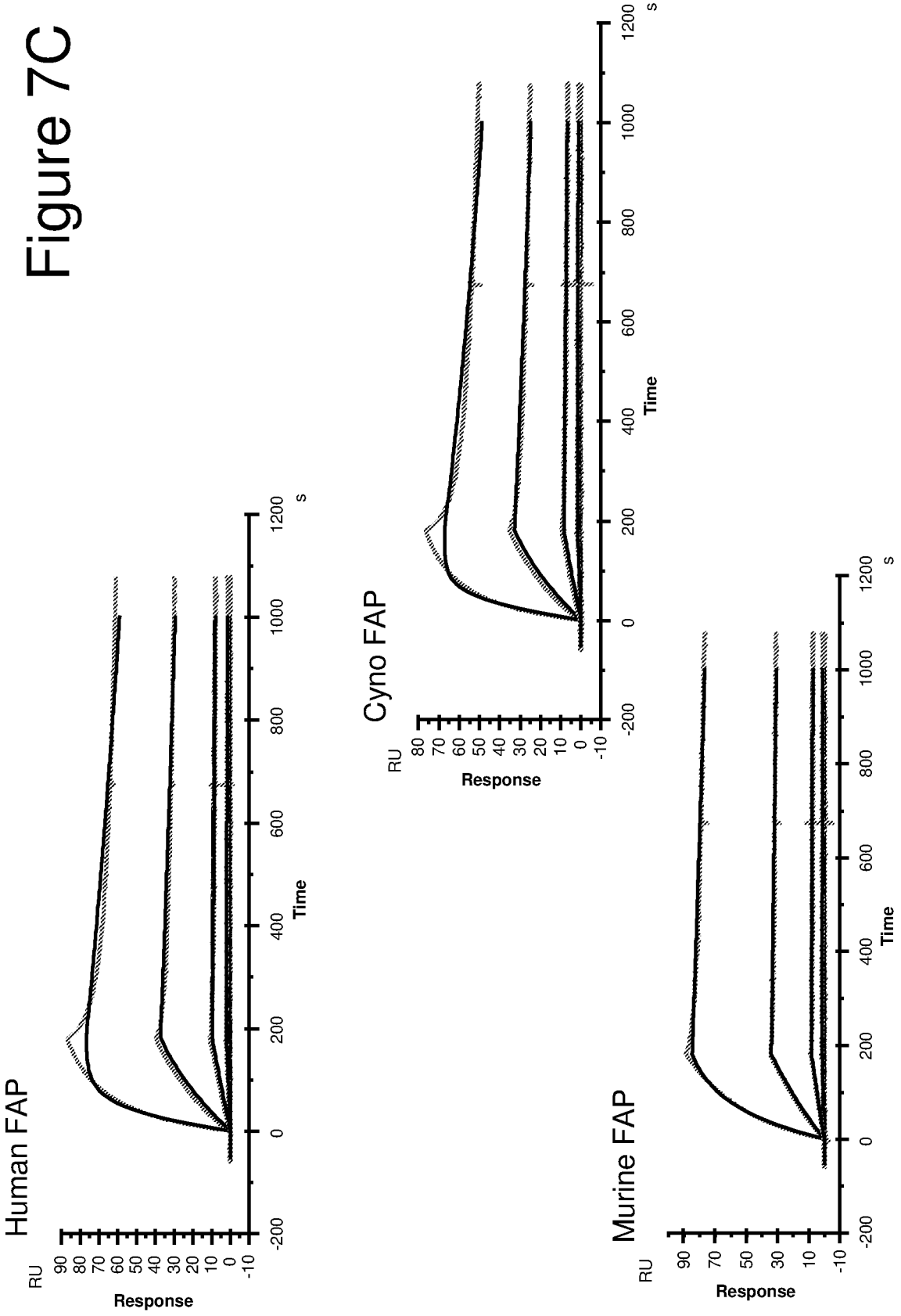

Human FAP
Cyno FAP
Murine FAP
RU
Response
Time
s
90
80
70
60
50
40
30
20
10
0
-10
-200
0
200
400
600
800
1000
1200

Figure 8A

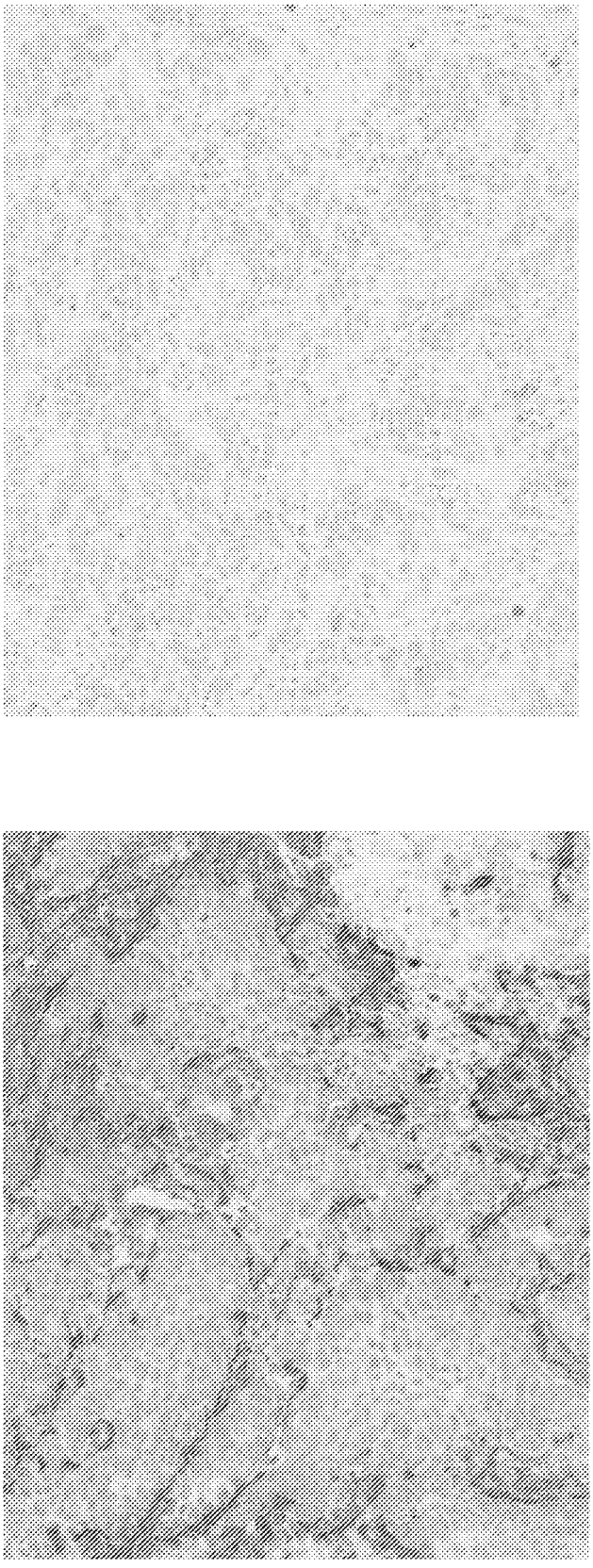


Figure 8B

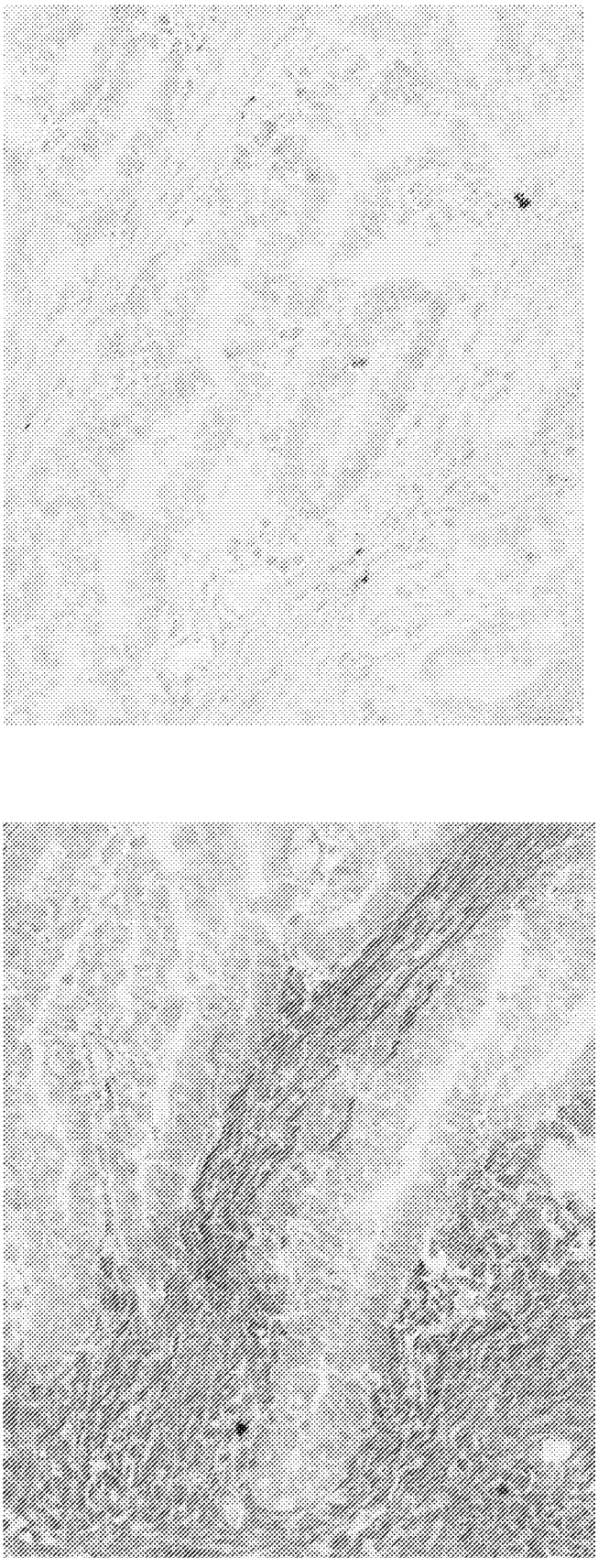


Figure 8C

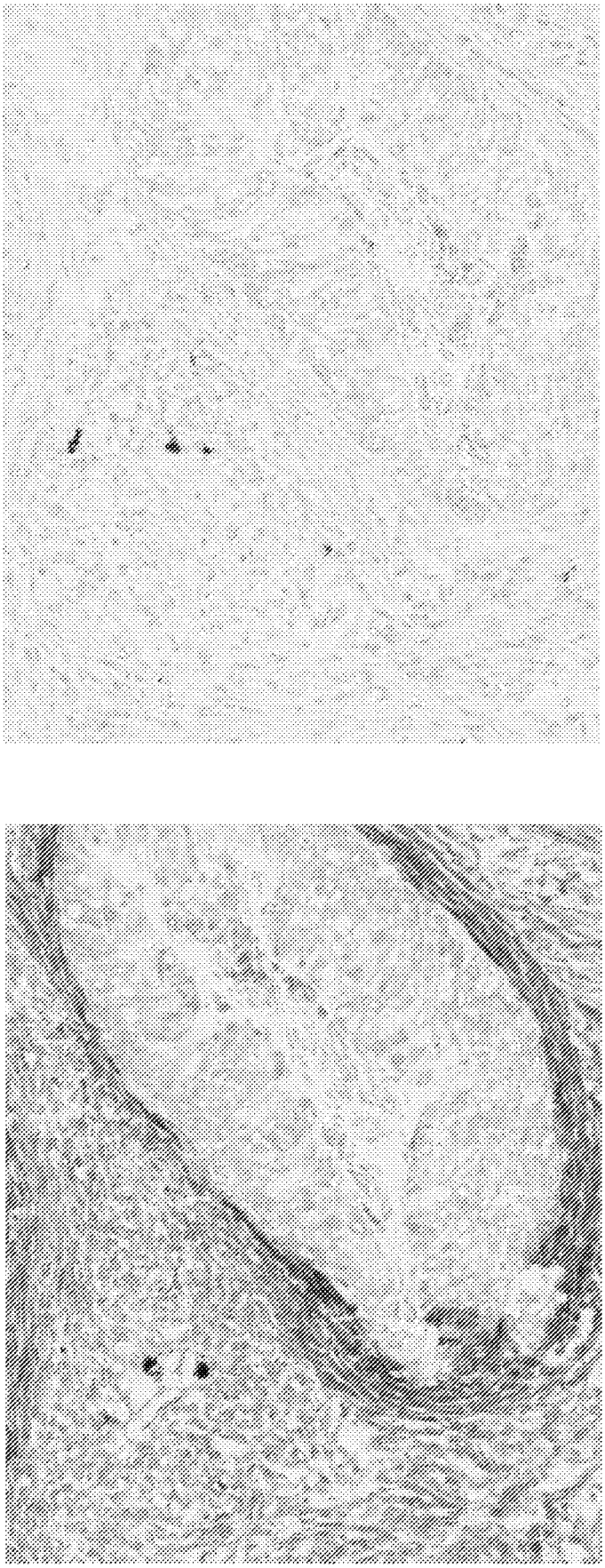


Figure 8D

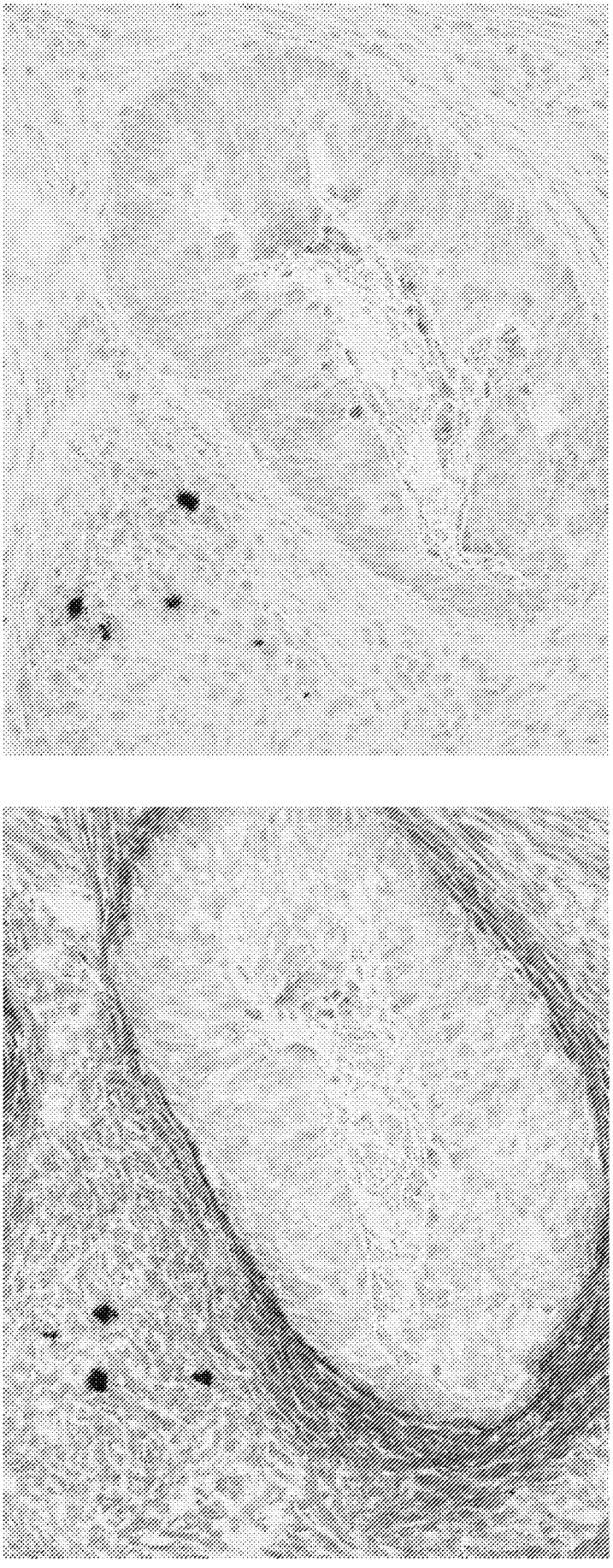


Figure 9

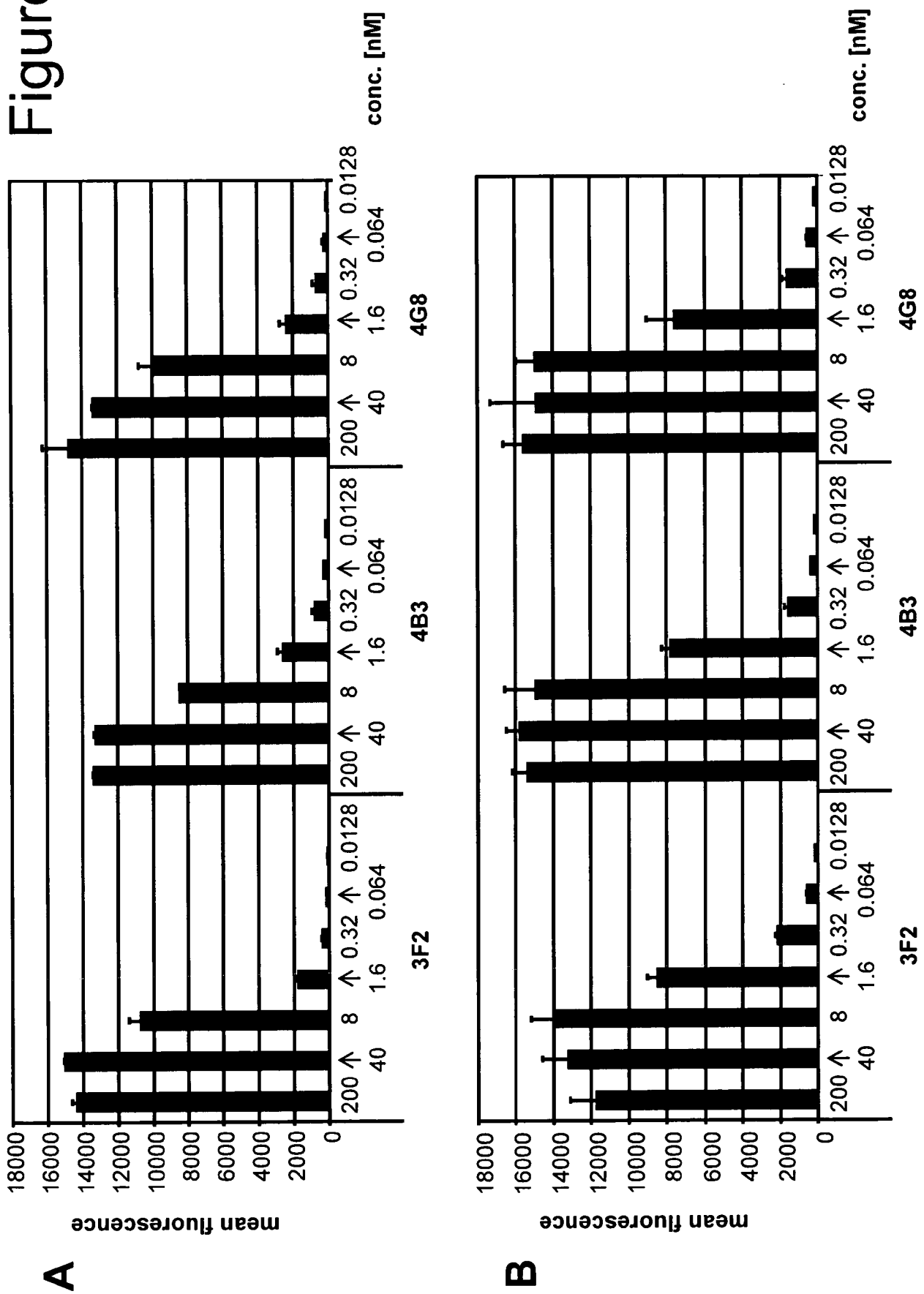

A
B
mean fluorescence
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
conc. [nM]
200
40
8
1.6
0.32
0.064
0.0128
3F2
4B3
4G8

Figure 10

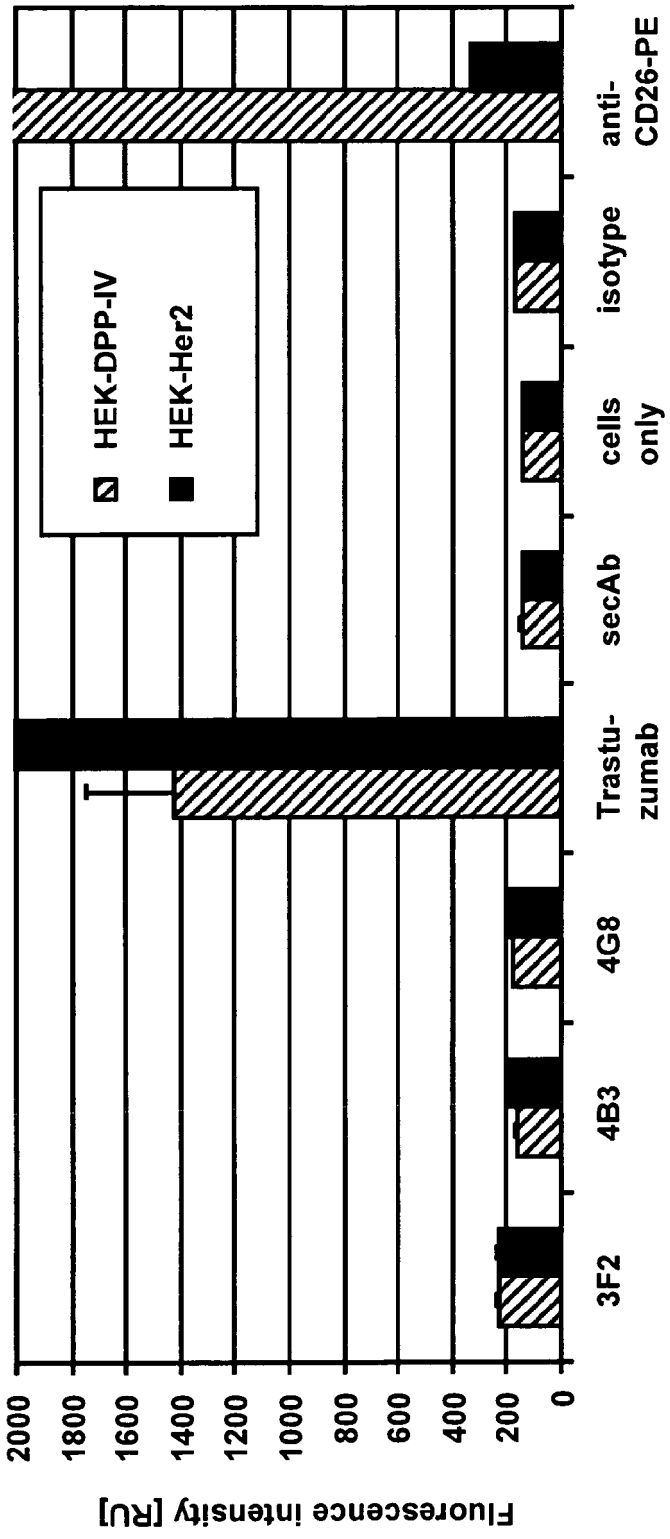

HEK-DPP-IV
HEK-Her2
Fluorescence intensity [RU]
2000
1800
1600
1400
1200
1000
800
600
400
200
0
3F2
4B3
4G8
Trastu-zumab
secAb
cells only
isotype
anti-CD26-PE

Figure 11

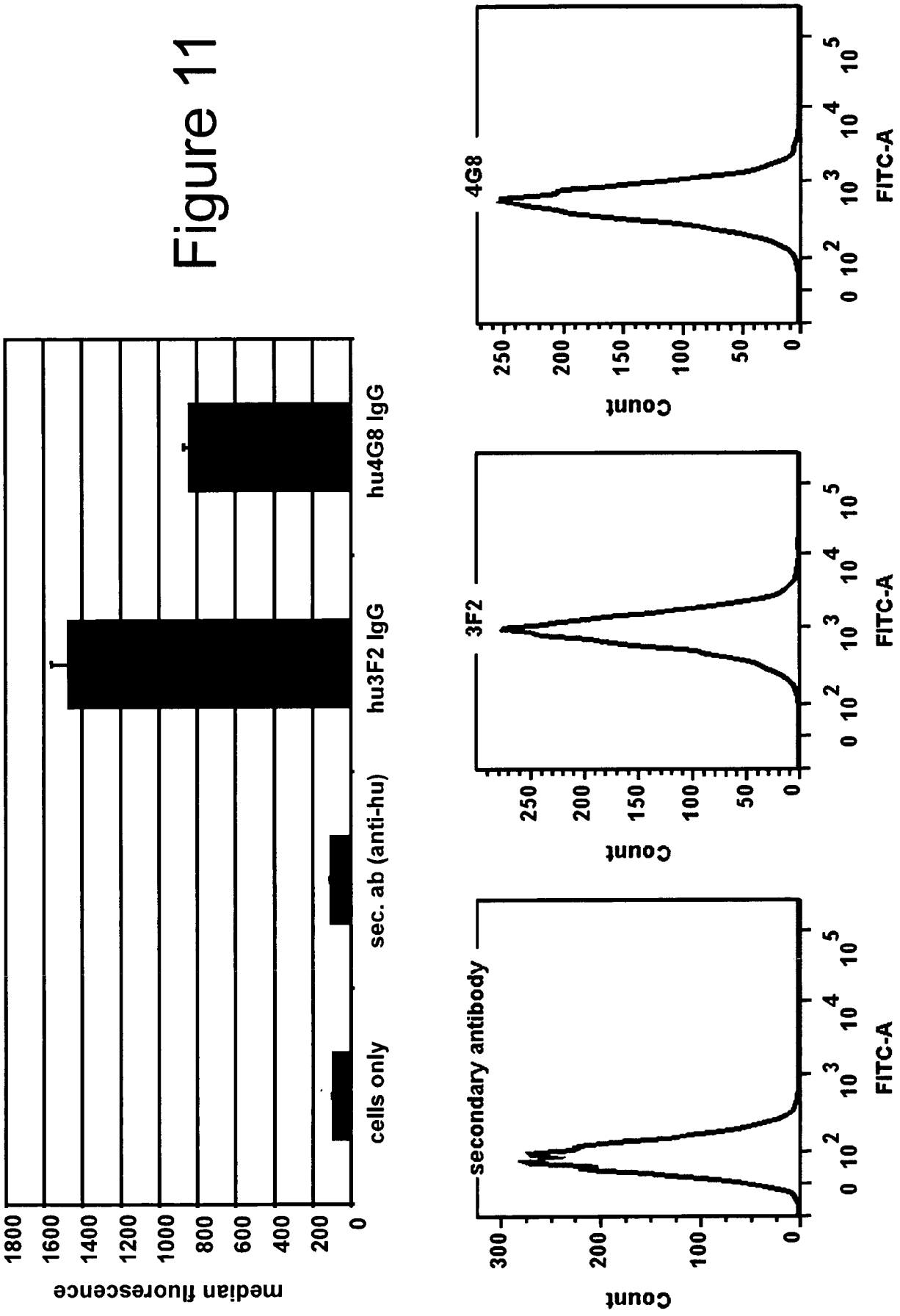

median fluorescence
1800
1600
1400
1200
1000
800
600
400
200
0
cells only
sec. ab (anti-hu)
hu3F2 IgG
hu4G8 IgG
secondary antibody
3F2
4G8
Count
FITC-A
0 10^2 10^3 10^4 10^5

Figure 12

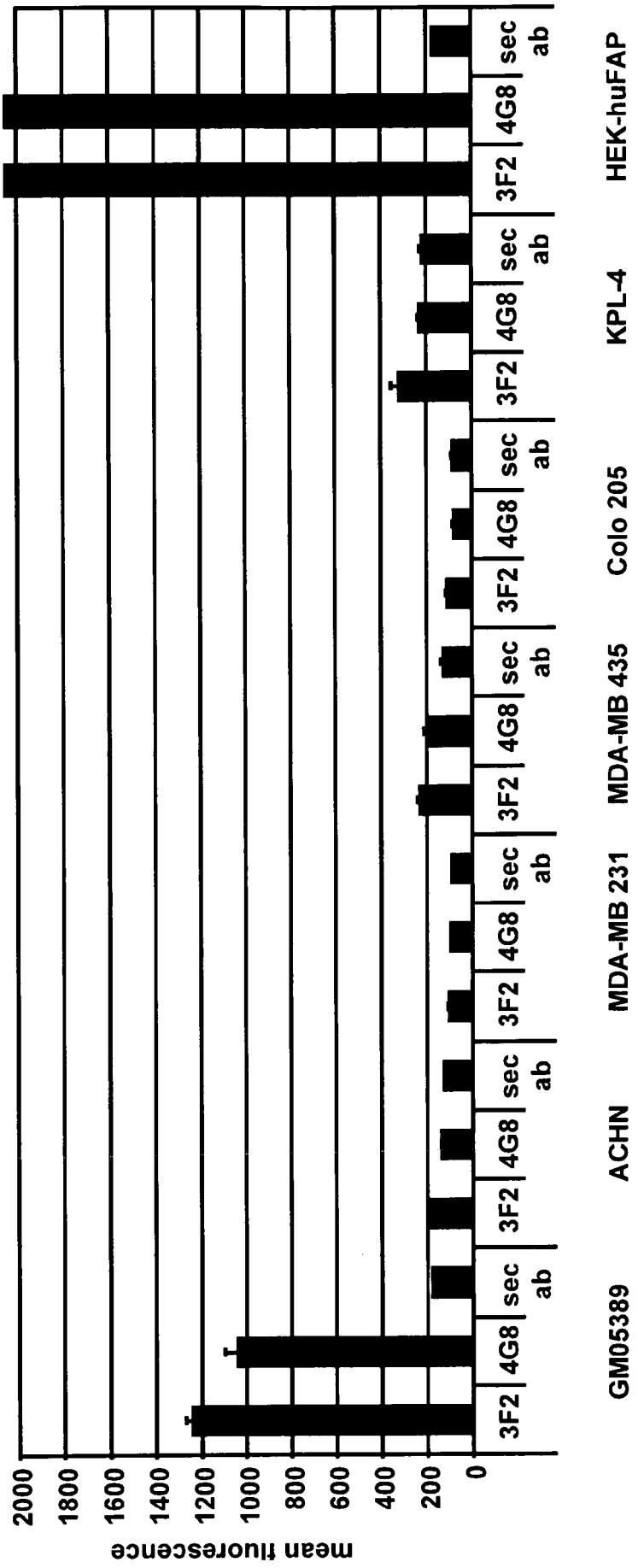

mean fluorescence
2000
1800
1600
1400
1200
1000
800
600
400
200
0
3F2
4G8
sec ab
GM05389
ACHN
MDA-MB 231
MDA-MB 435
Colo 205
KPL-4
HEK-huFAP

Figure 13A

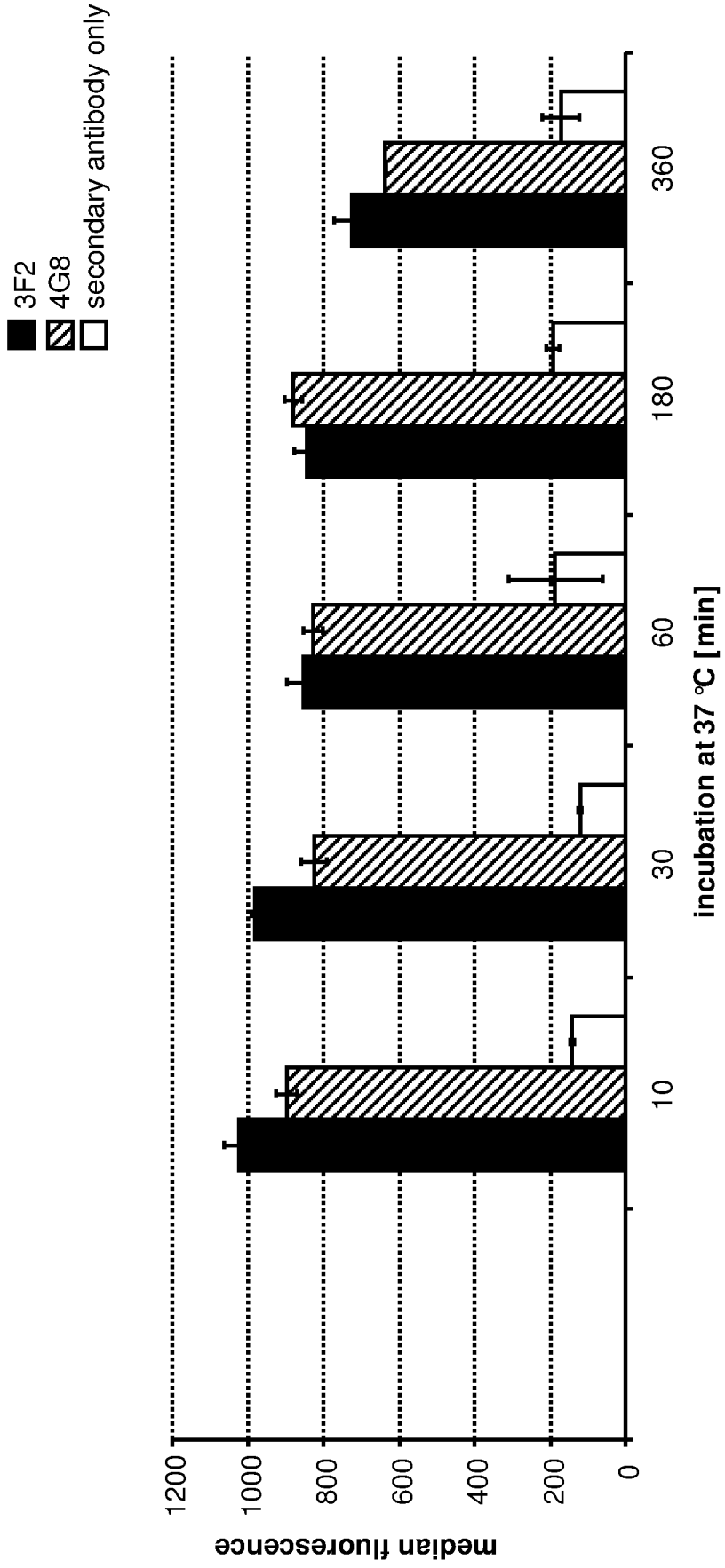

3F2
4G8
secondary antibody only
median fluorescence
1200
1000
800
600
400
200
0
10
30
60
180
360
incubation at 37 °C [min]

Figure 13B

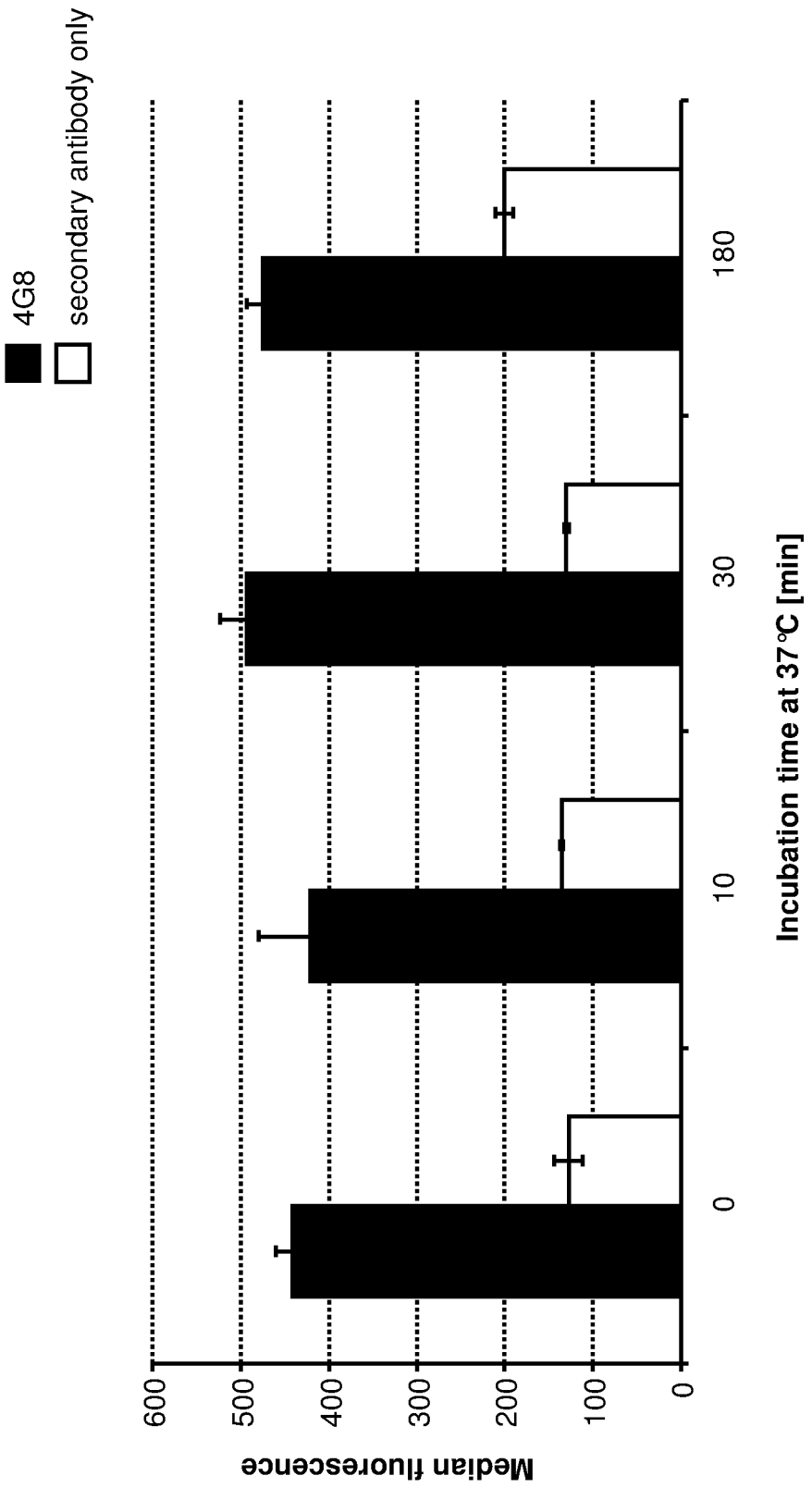

4G8
secondary antibody only
Median fluorescence
600
500
400
300
200
100
0
0
10
30
180
Incubation time at 37°C [min]

Figure 14A

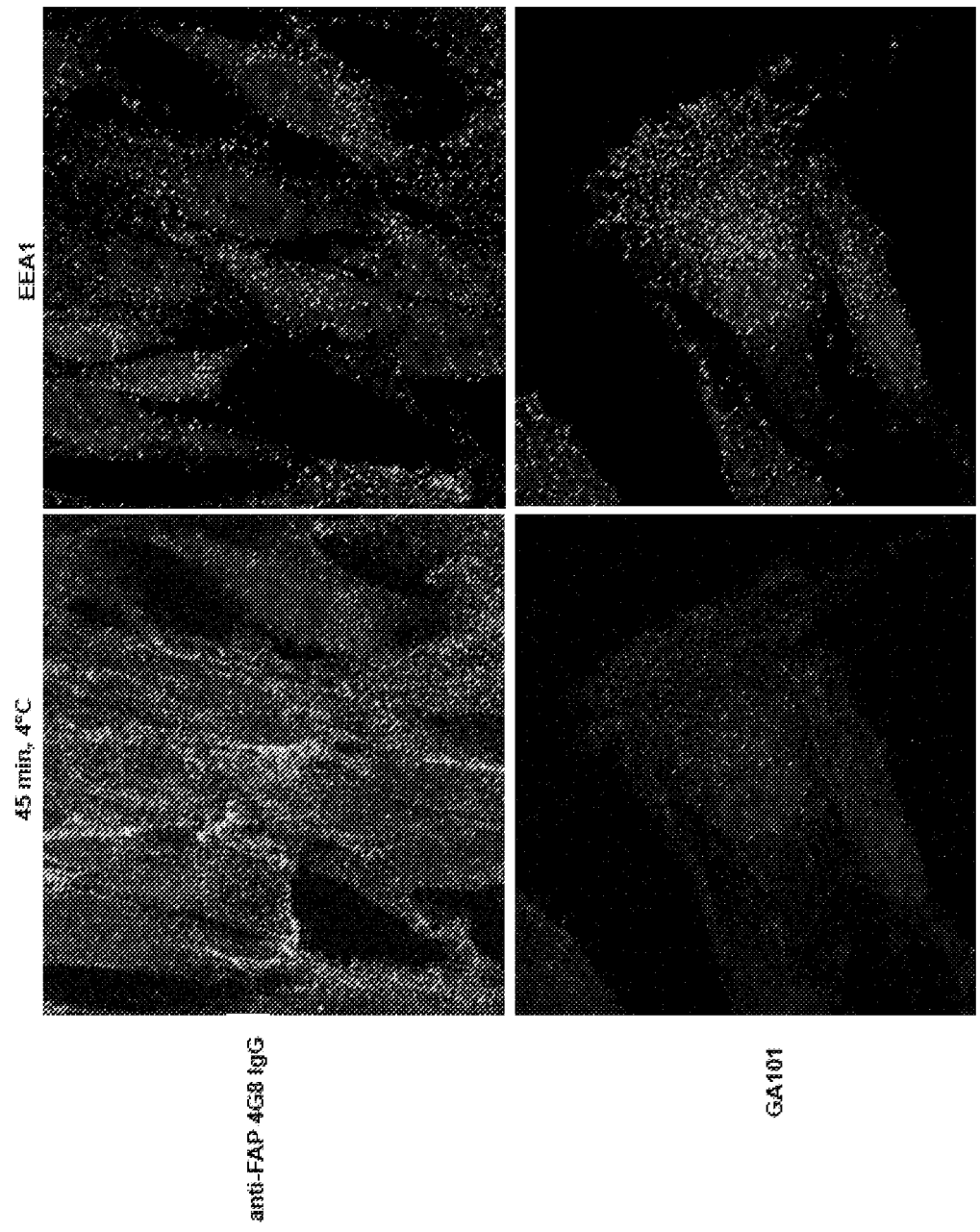


Figure 14B

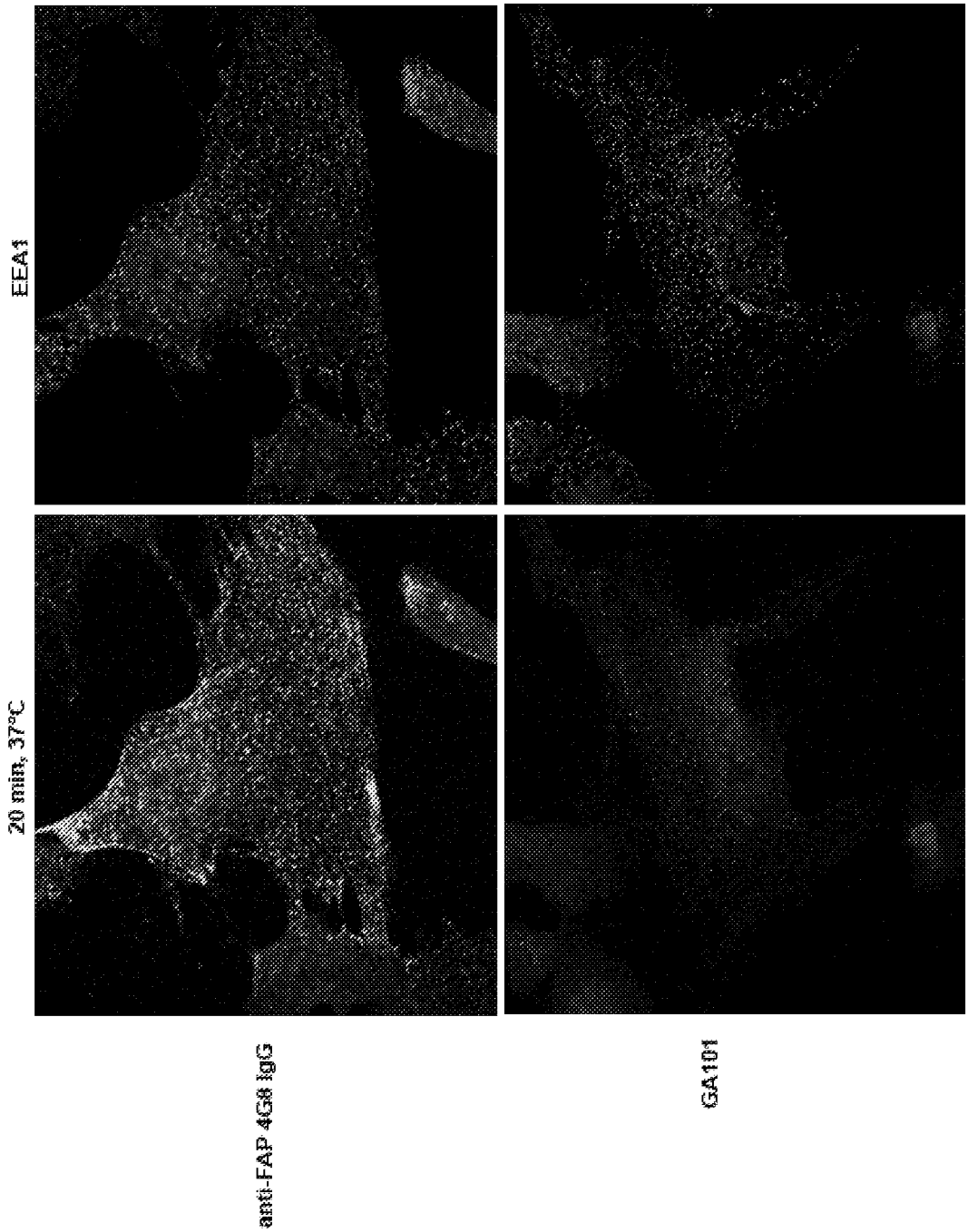


Figure 14C

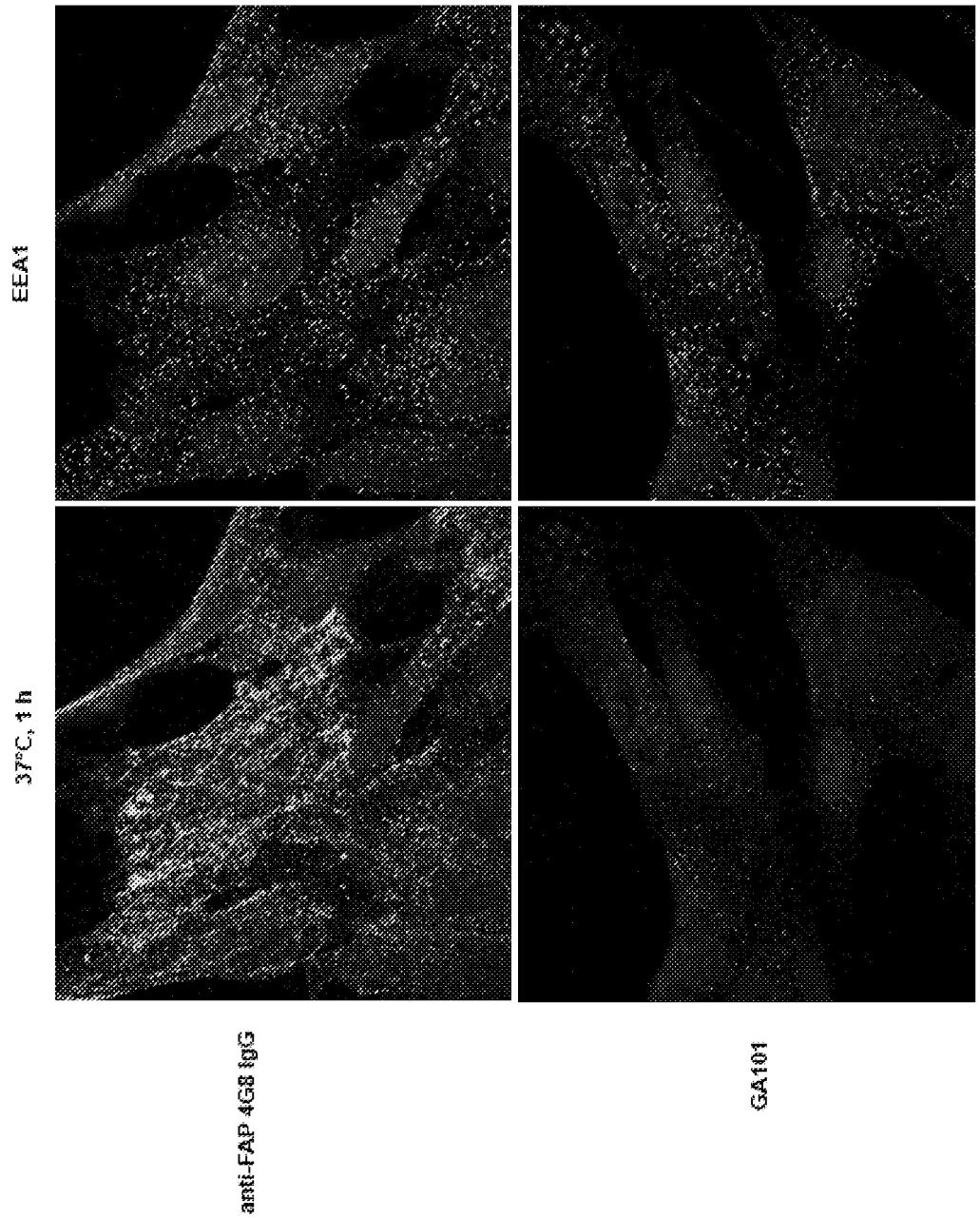
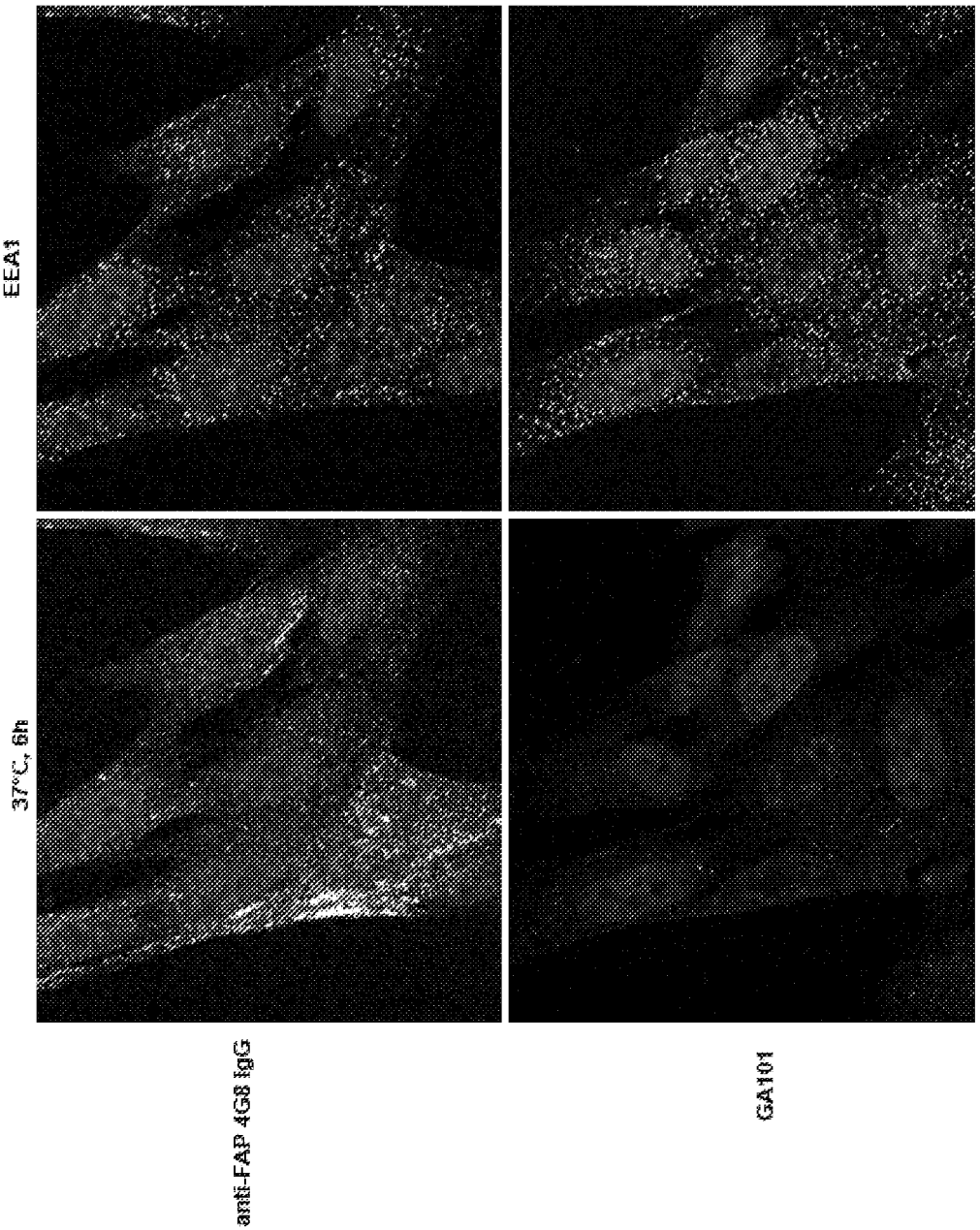


Figure 14D



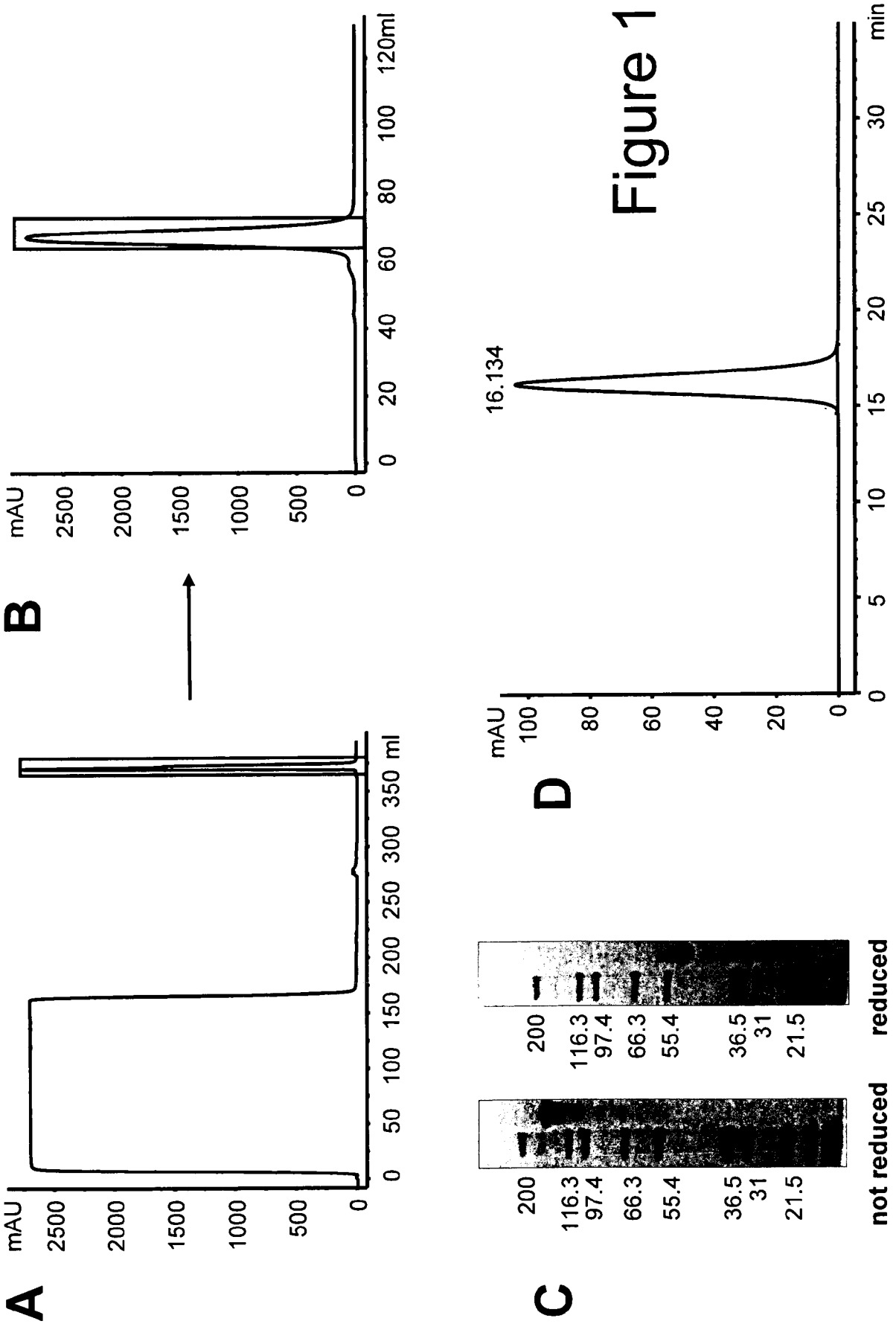

A
mAU
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350 ml
B
mAU
2500
2000
1500
1000
500
0
0 20 40 60 80 100 120ml
C
200
116.3
97.4
66.3
55.4
36.5
31
21.5
not reduced
reduced
D
16.134
mAU
100
80
60
40
20
0
0 5 10 15 20 25 30 min

Figure 15

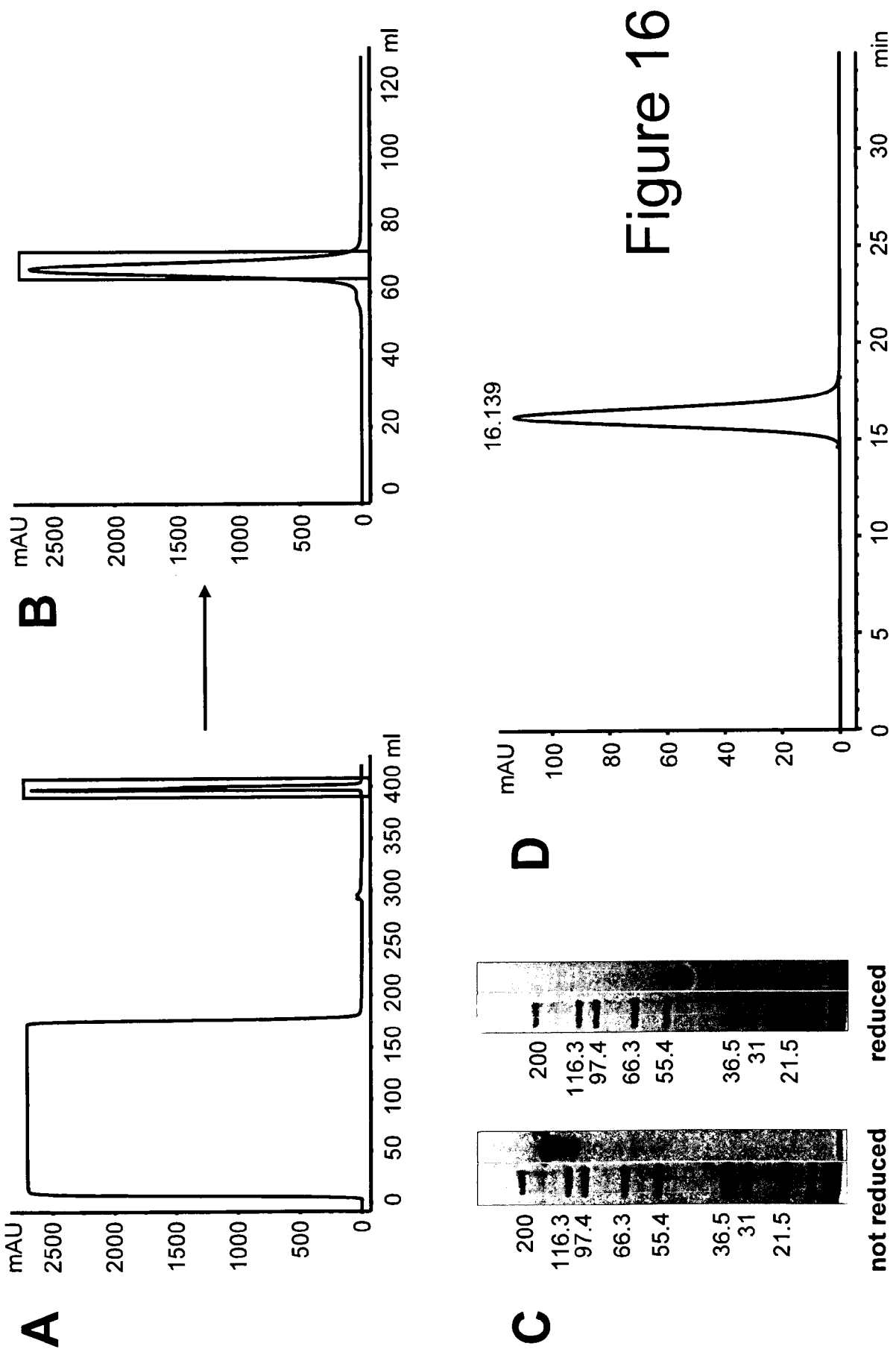

A
mAU
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350 400 ml
B
mAU
2500
2000
1500
1000
500
0
0 20 40 60 80 100 120 ml
C
200
116.3
97.4
66.3
55.4
36.5
31
21.5
not reduced
reduced
D
16.139
mAU
100
80
60
40
20
0
0 5 10 15 20 25 30 min

Figure 16

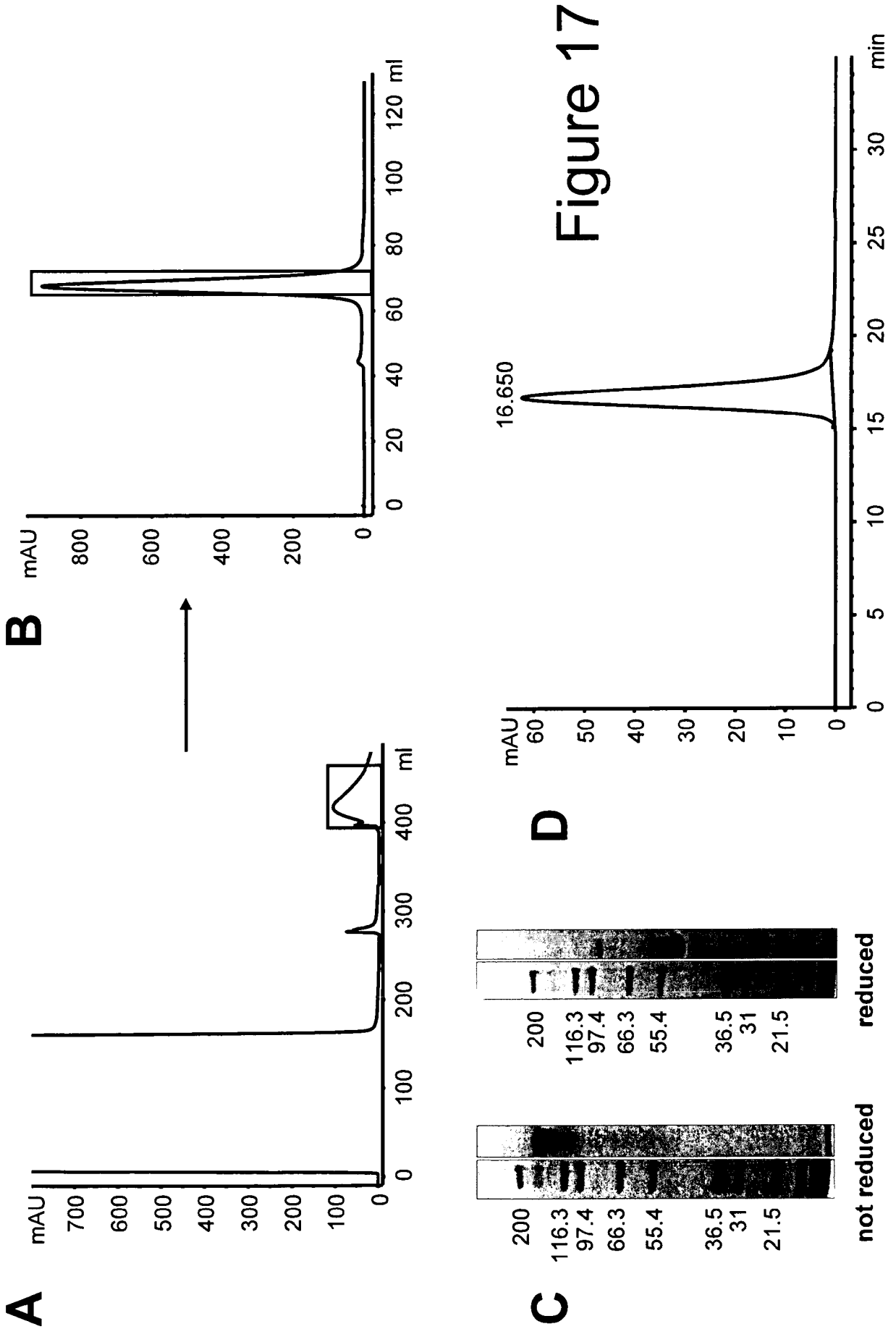

A
mAU
700
600
500
400
300
200
100
0
0
100
200
300
400
ml
B
mAU
800
600
400
200
0
0
20
40
60
80
100
120 ml
C
200
116.3
97.4
66.3
55.4
36.5
31
21.5
not reduced
reduced
D
mAU
60
50
40
30
20
10
0
16.650
0
5
10
15
20
25
30
min

Figure 17

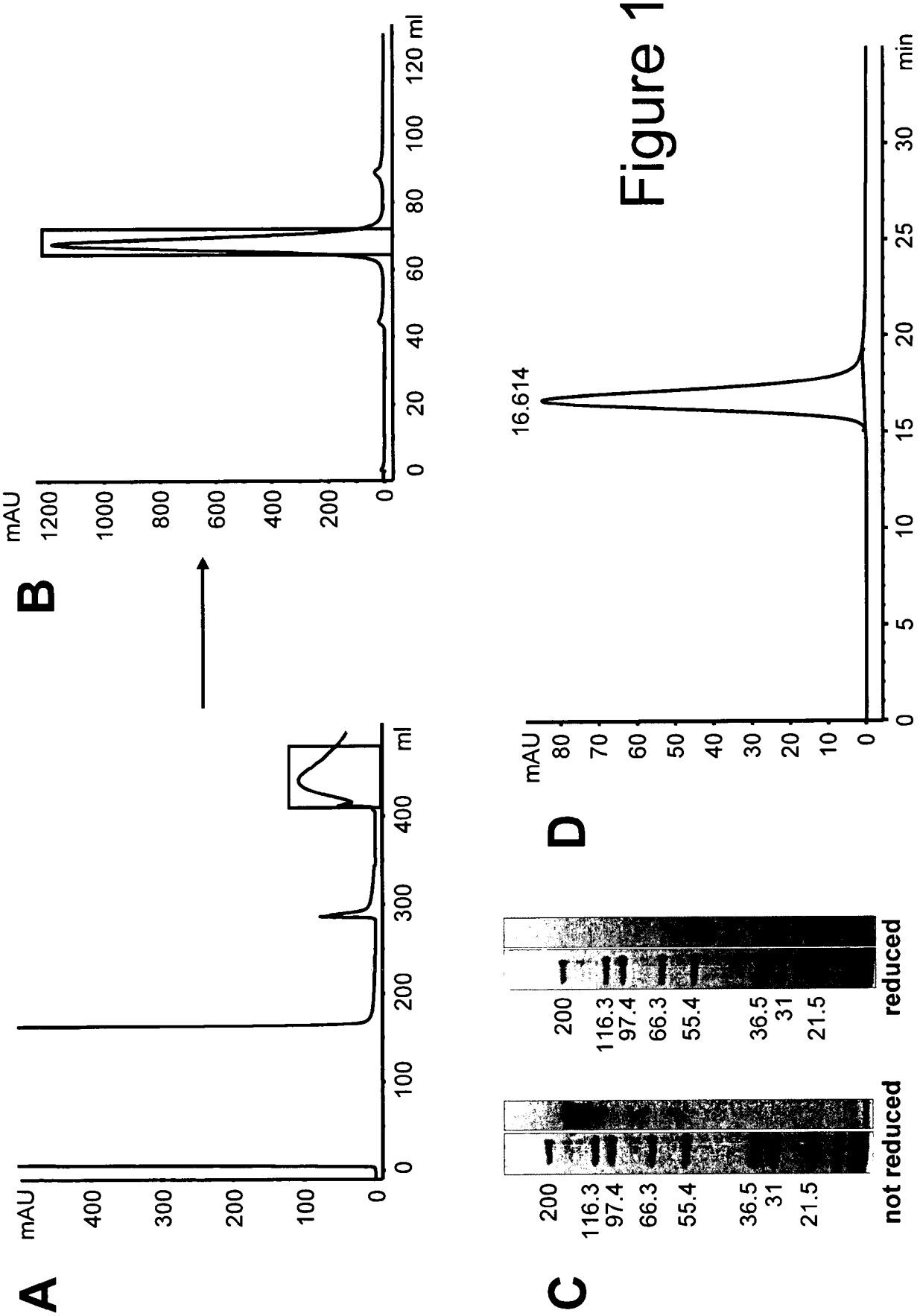

A
mAU
400
300
200
100
0
0
100
200
300
400
ml
B
mAU
1200
1000
800
600
400
200
0
0
20
40
60
80
100
120 ml
C
200
116.3
97.4
66.3
55.4
36.5
31
21.5
not reduced
reduced
D
16.614
mAU
80
70
60
50
40
30
20
10
0
0
5
10
15
20
25
30
min

Figure 18

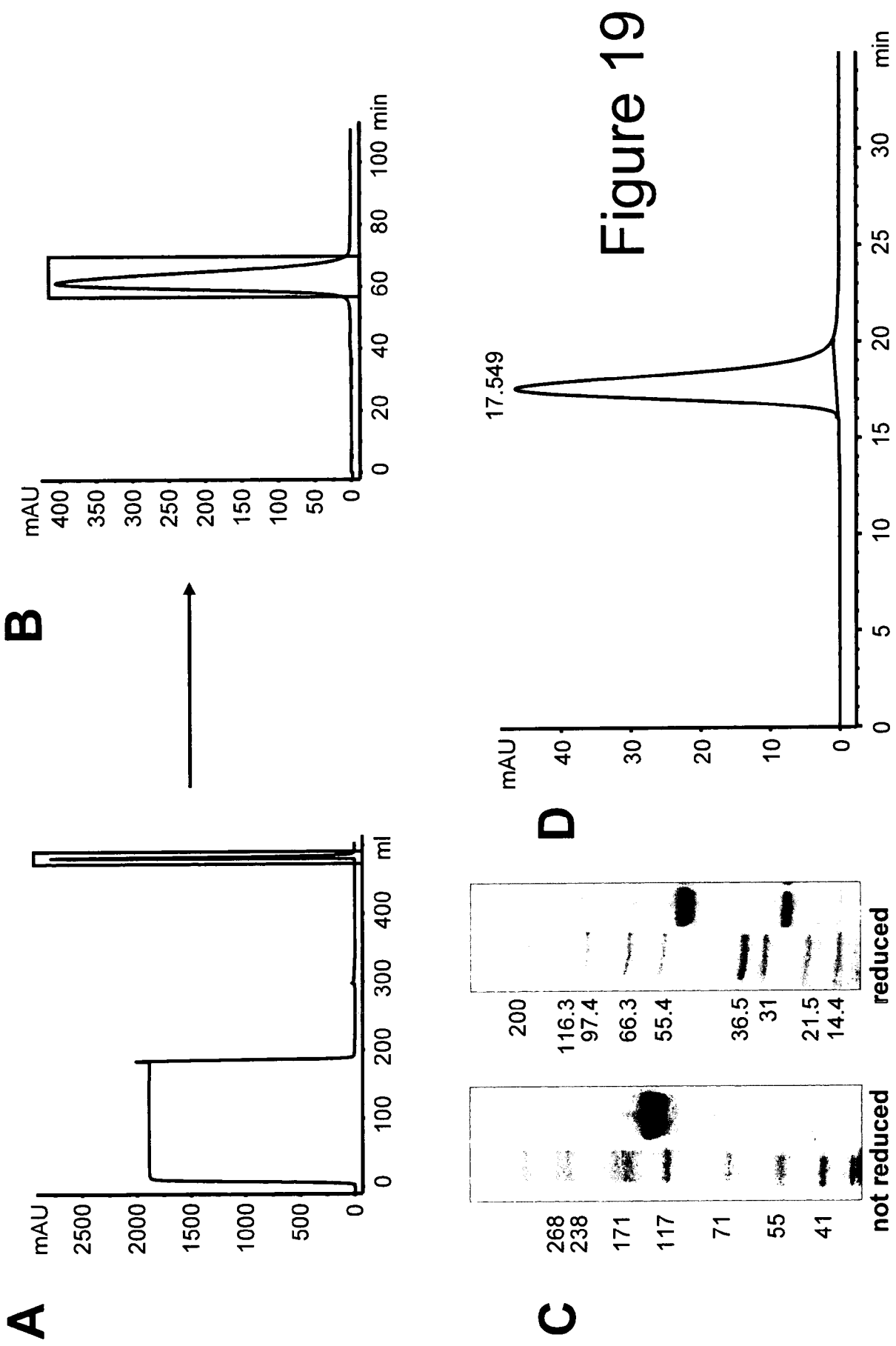

A
mAU
2500
2000
1500
1000
500
0
0 100 200 300 400 ml
B
mAU
400
350
300
250
200
150
100
50
0
0 20 40 60 80 100 min
C
268
238
171
117
71
55
41
not reduced
200
116.3
97.4
66.3
55.4
36.5
31
21.5
14.4
reduced
D
mAU
40
30
20
10
0
17.549
0 5 10 15 20 25 30 min

Figure 19

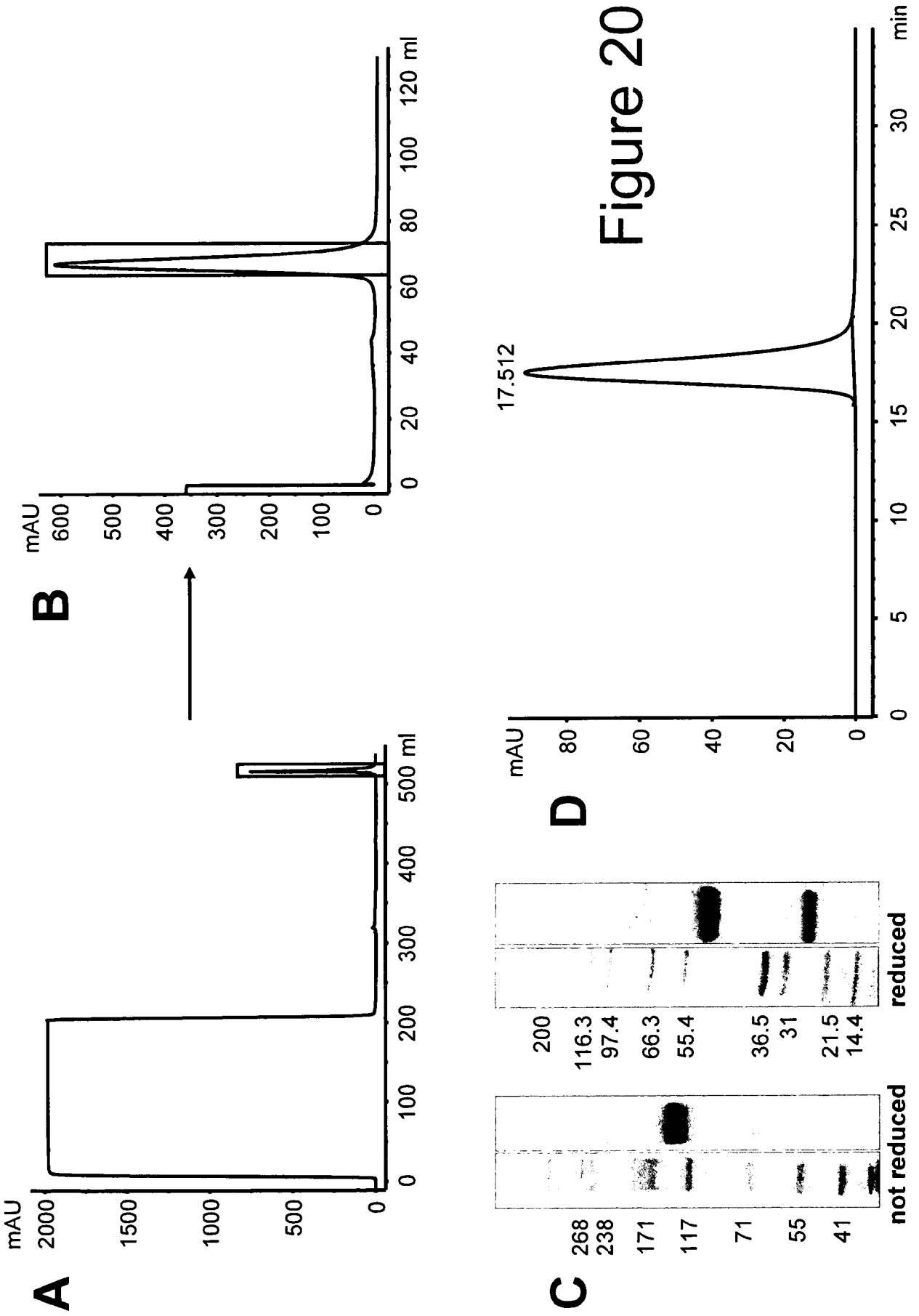

A
mAU
2000
1500
1000
500
0
0
100
200
300
400
500 ml
B
mAU
600
500
400
300
200
100
0
0
20
40
60
80
100
120 ml
C
268
238
171
117
71
55
41
not reduced
200
116.3
97.4
66.3
55.4
36.5
31
21.5
14.4
reduced
D
mAU
80
60
40
20
0
17.512
0
5
10
15
20
25
30
min

Figure 20

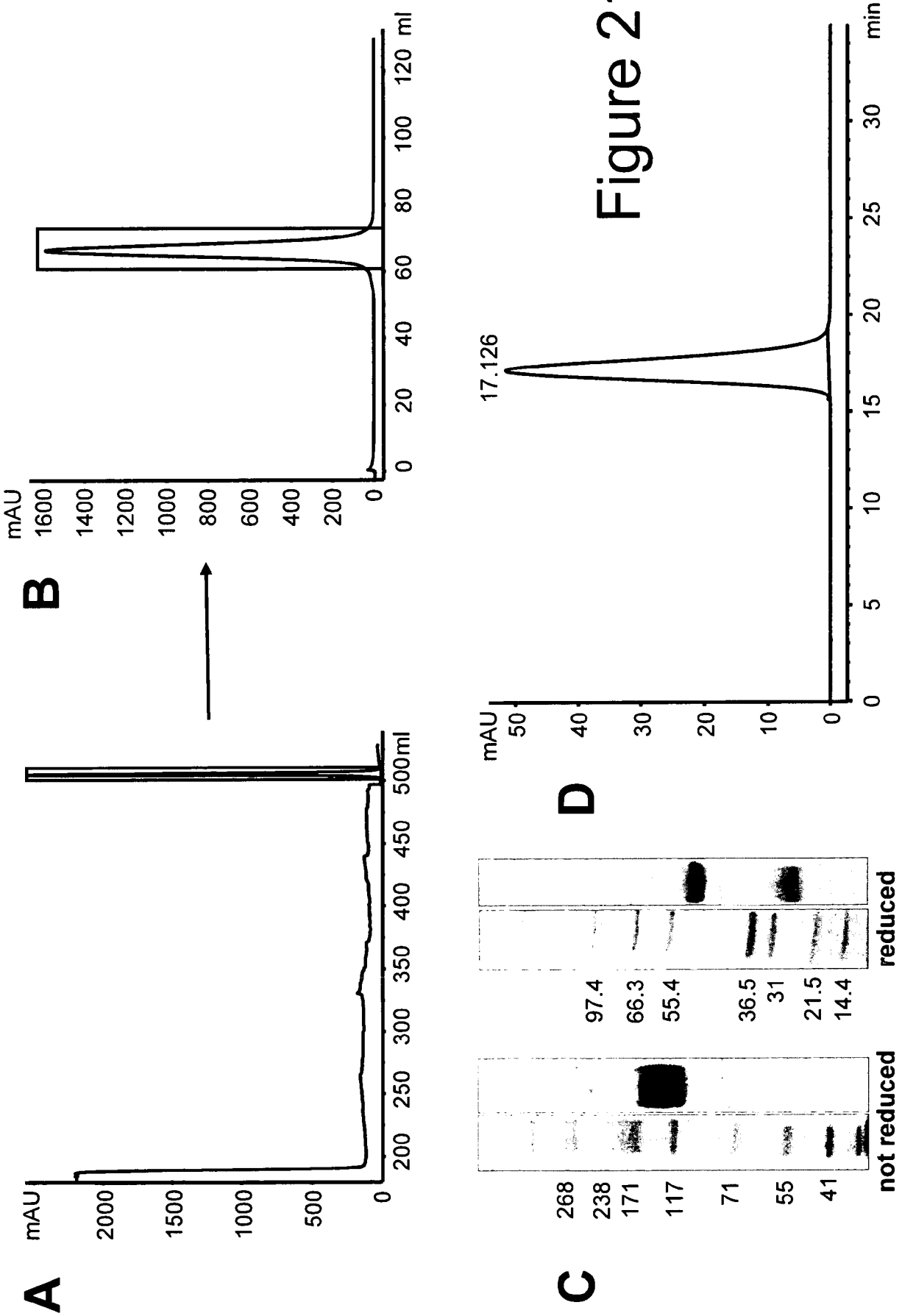

A
mAU
2000
1500
1000
500
0
200 250 300 350 400 450 500ml
B
mAU
1600
1400
1200
1000
800
600
400
200
0
0 20 40 60 80 100 120 ml
C
not reduced
reduced
268
238
171
117
71
55
41
97.4
66.3
55.4
36.5
31
21.5
14.4
D
mAU
50
40
30
20
10
0
17.126
0 5 10 15 20 25 30 min

Figure 21

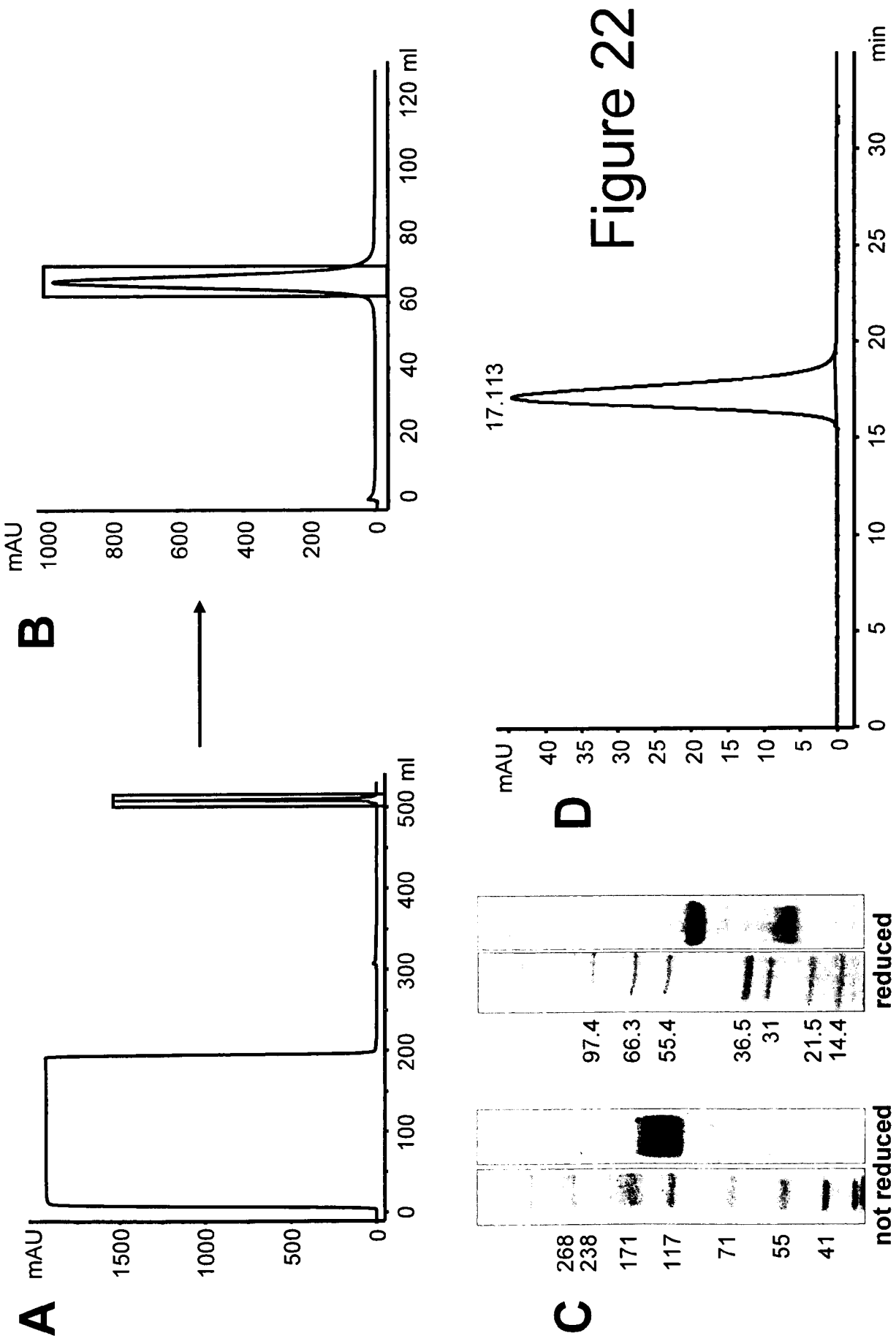

A
mAU
1500
1000
500
0
0
100
200
300
400
500 ml
B
mAU
1000
800
600
400
200
0
0
20
40
60
80
100
120 ml
C
not reduced
reduced
268
238
171
117
71
55
41
97.4
66.3
55.4
36.5
31
21.5
14.4
D
mAU
40
35
30
25
20
15
10
5
0
17.113
0
5
10
15
20
25
30
min

Figure 22

Figure 23

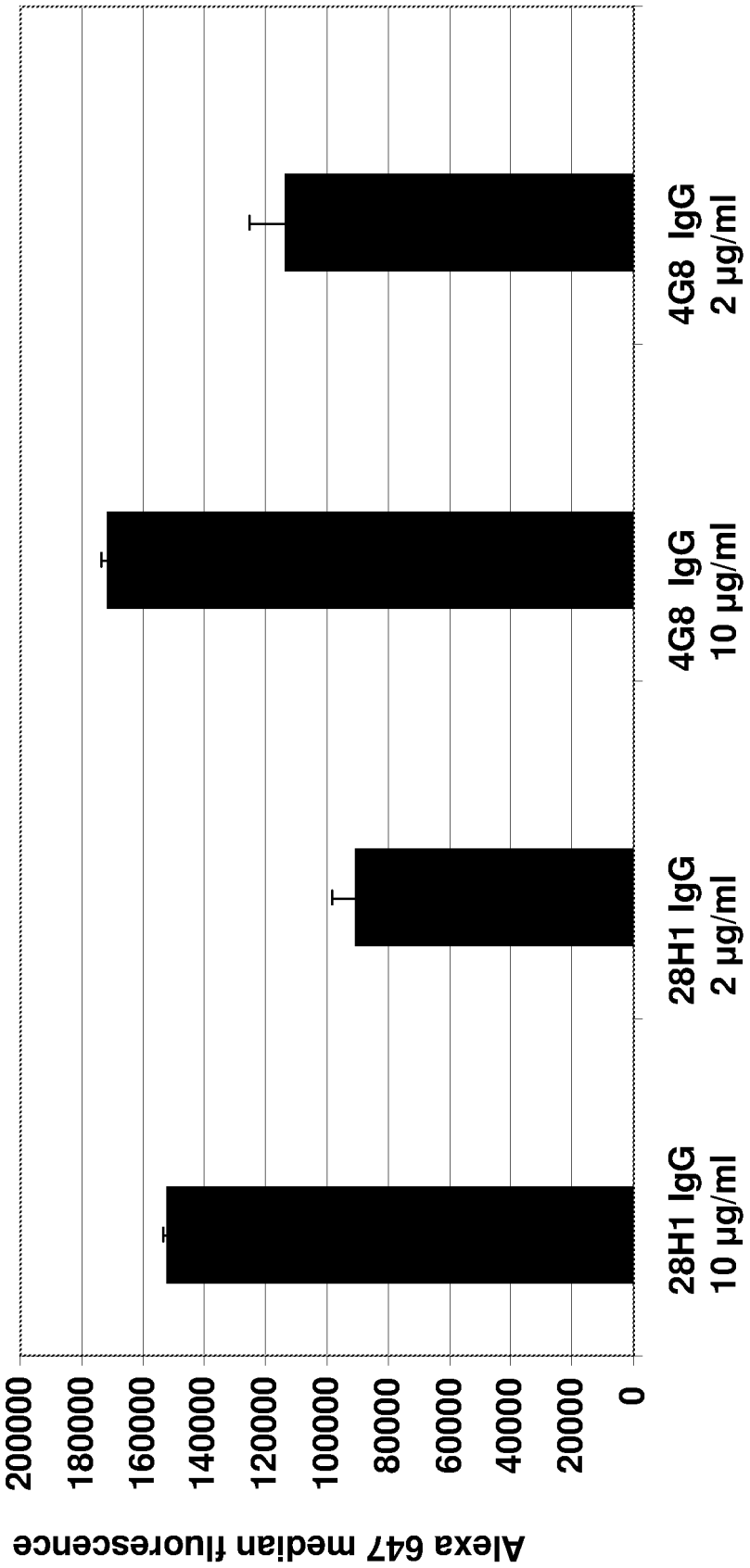
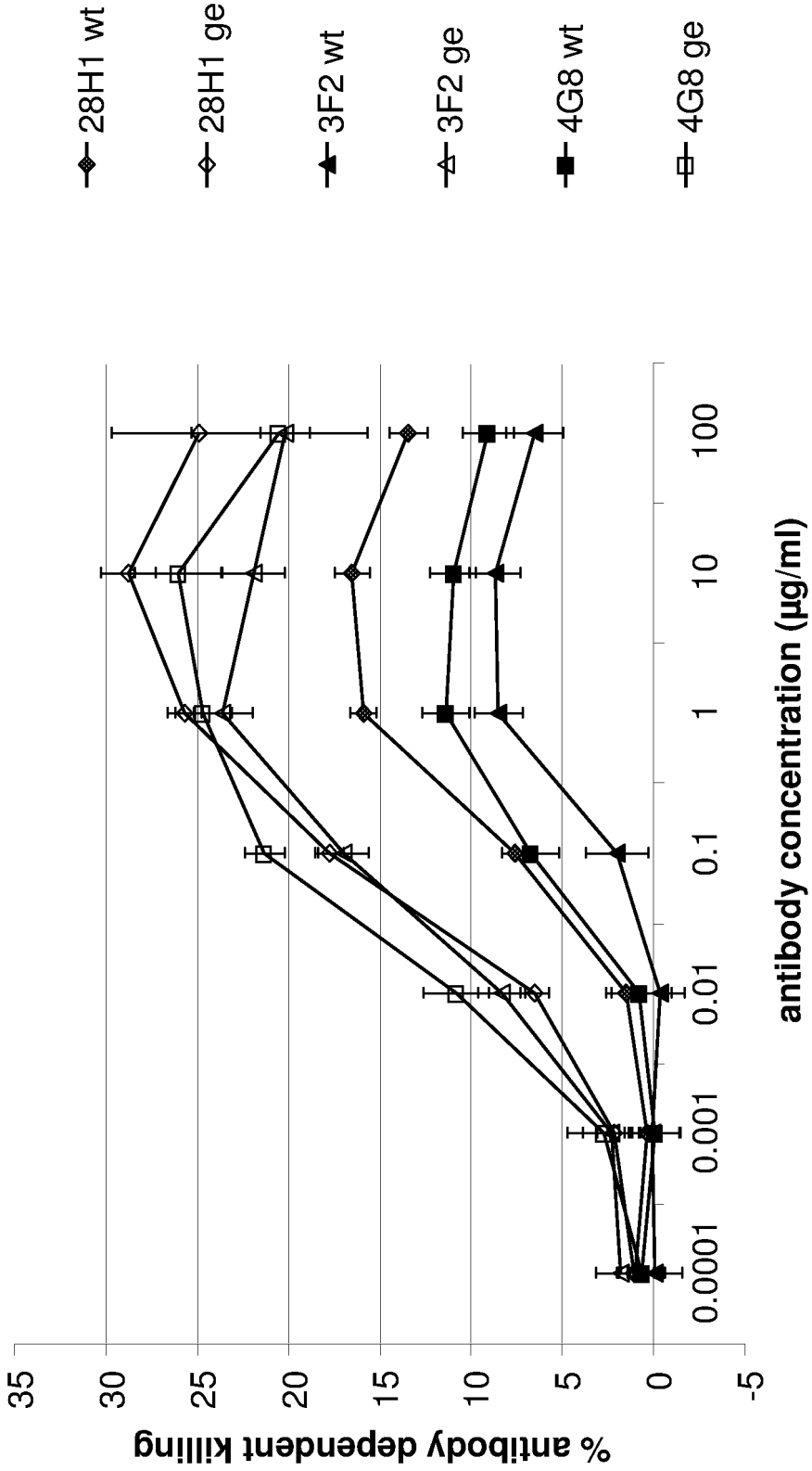

Alexa 647 median fluorescence
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
28H1 IgG 10 µg/ml
28H1 IgG 2 µg/ml
4G8 IgG 10 µg/ml
4G8 IgG 2 µg/ml

Figure 24


28H1 wt
28H1 ge
3F2 wt
3F2 ge
4G8 wt
4G8 ge
% antibody dependent killing
35
30
25
20
15
10
5
0
-5
0.0001
0.001
0.01
0.1
1
10
100
antibody concentration (µg/ml)