Fig. 1A

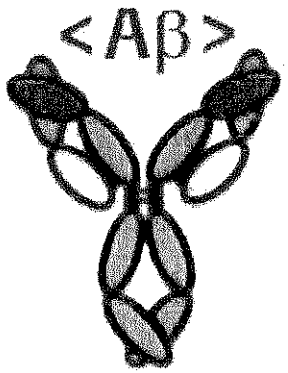


Fig. 1B

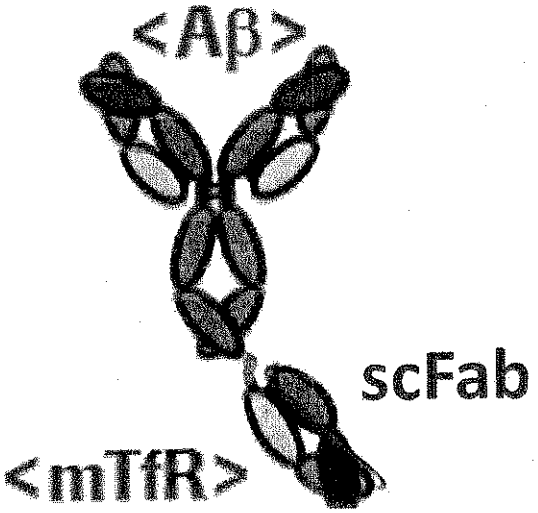
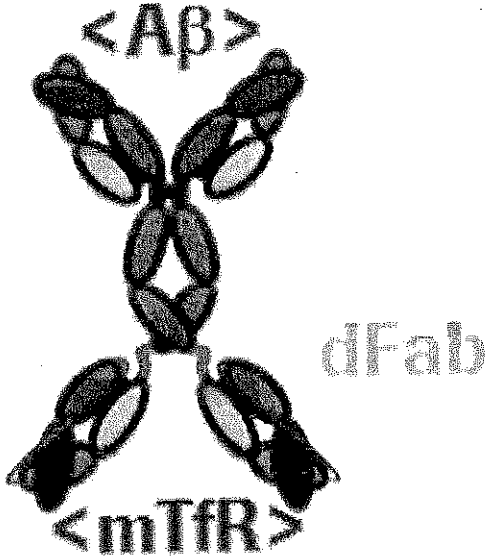


Fig. 1C



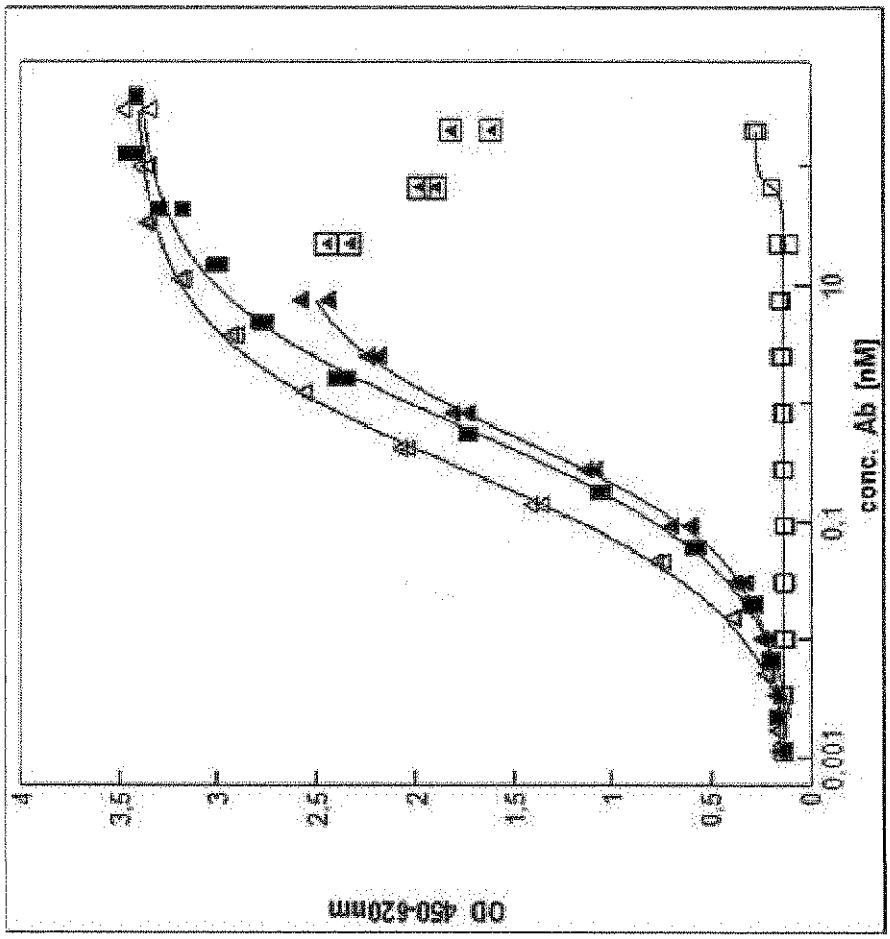


Fig. 2

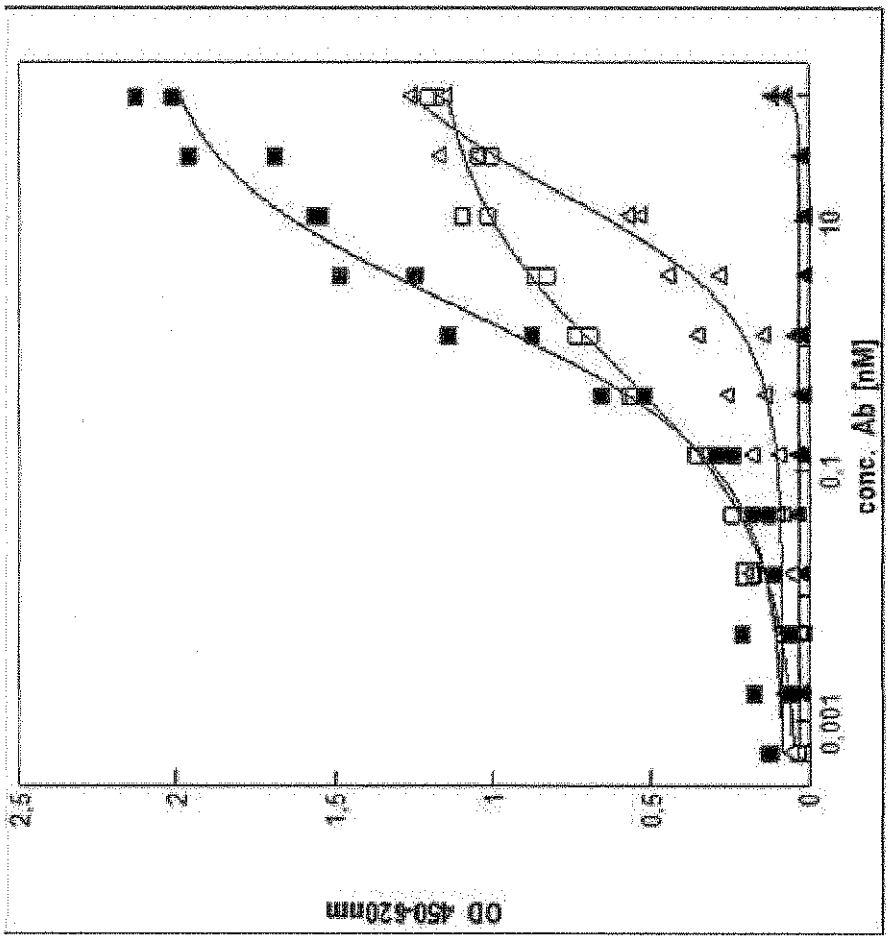
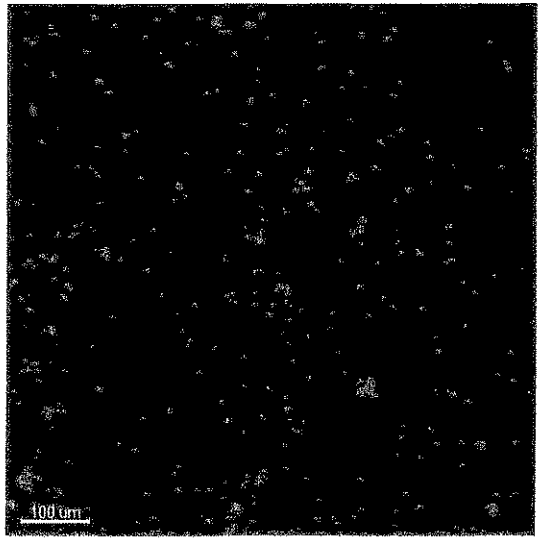


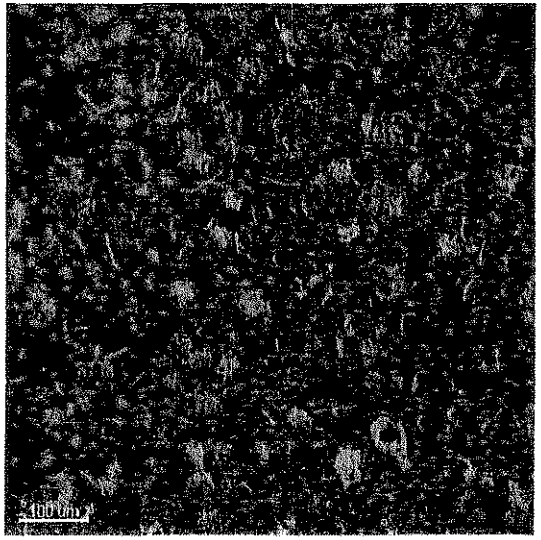
Fig. 3

Fig. 4A



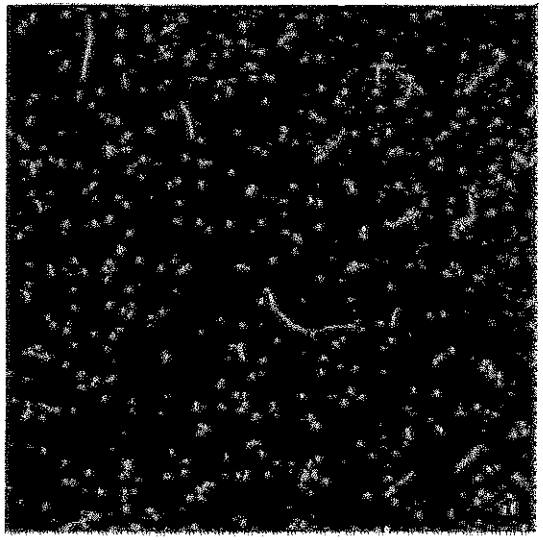
mAb31

Fig. 4B



scFab-mAb31

Fig. 4C



dFab-mAb31

Fig. 5

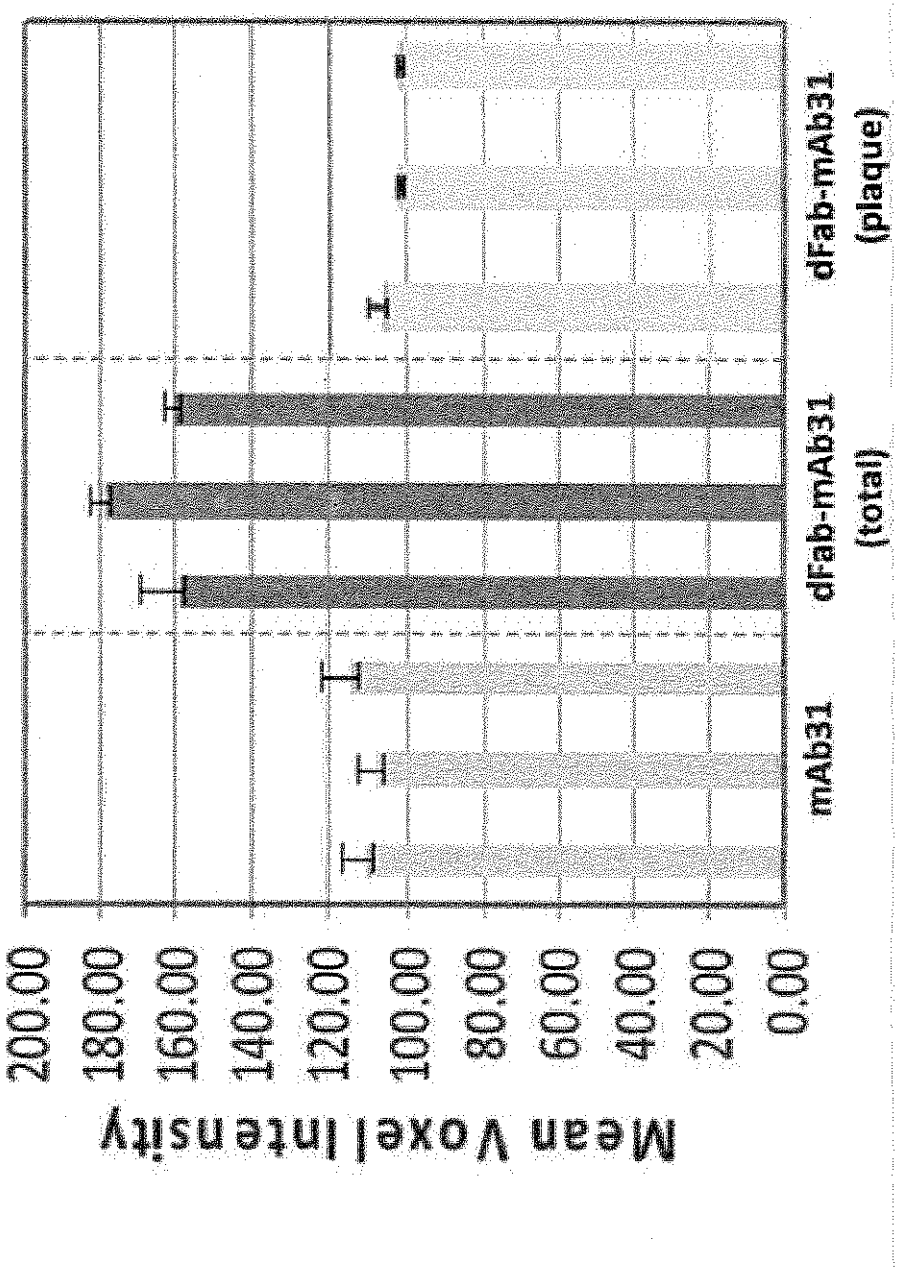

Quantification:
555 nm fluorescence intensity, 8h post dose
Mean Voxel Intensity
200,00
180,00
160,00
140,00
120,00
100,00
80,00
60,00
40,00
20,00
0,00
mAb31
dFab-mAb31 (total)
dFab-mAb31 (plaque)

Fig. 6

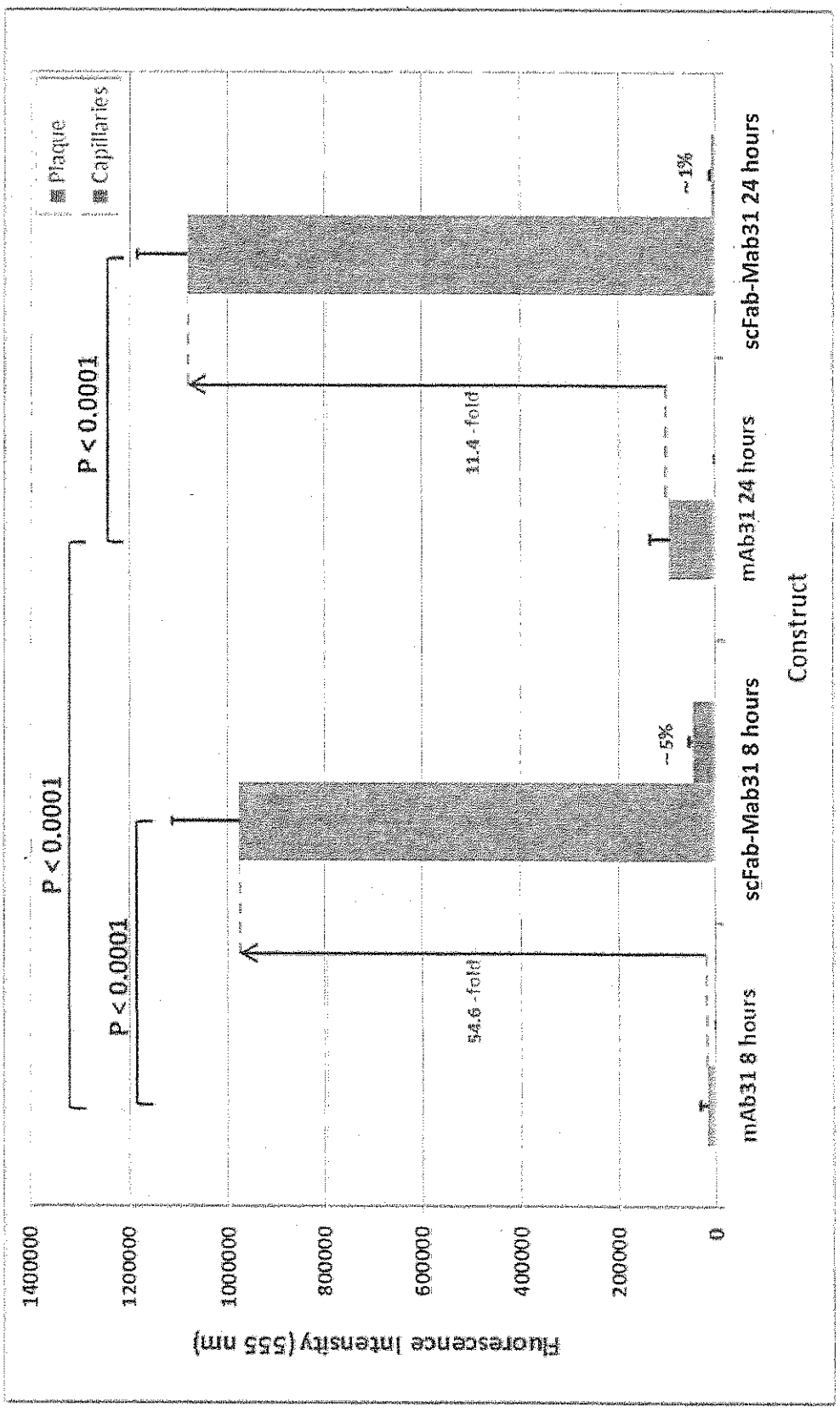

Plaque
Capillaries
P < 0.0001
P < 0.0001
P < 0.0001
54.6 - fold
11.4 - fold
~5%
~1%
mAb31 8 hours
scFab-Mab31 8 hours
mAb31 24 hours
scFab-Mab31 24 hours
Construct
Fluorescence Intensity (555 nm)
1400000
1200000
1000000
800000
600000
400000
200000
0

Fig. 7

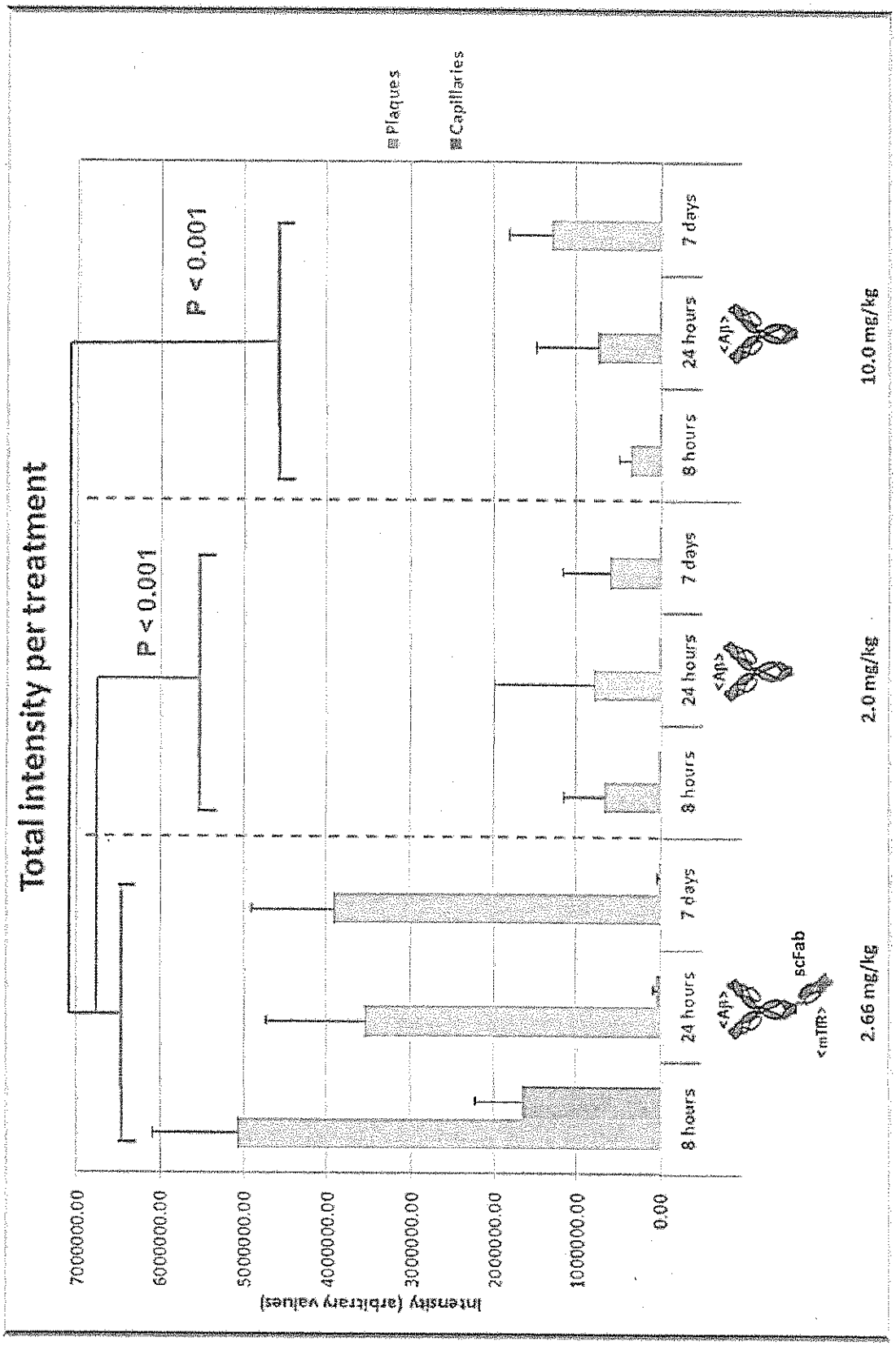

Total intensity per treatment
Plaques
Capillaries
P < 0.001
P < 0.001
Intensity (arbitrary values)
7000000.00
6000000.00
5000000.00
4000000.00
3000000.00
2000000.00
1000000.00
0.00
8 hours
24 hours
7 days
8 hours
24 hours
7 days
8 hours
24 hours
7 days
<Ab>
scFab
<mTfR>
<Ab>
<Ab>
2.66 mg/kg
2.0 mg/kg
10.0 mg/kg

Fig. 8A

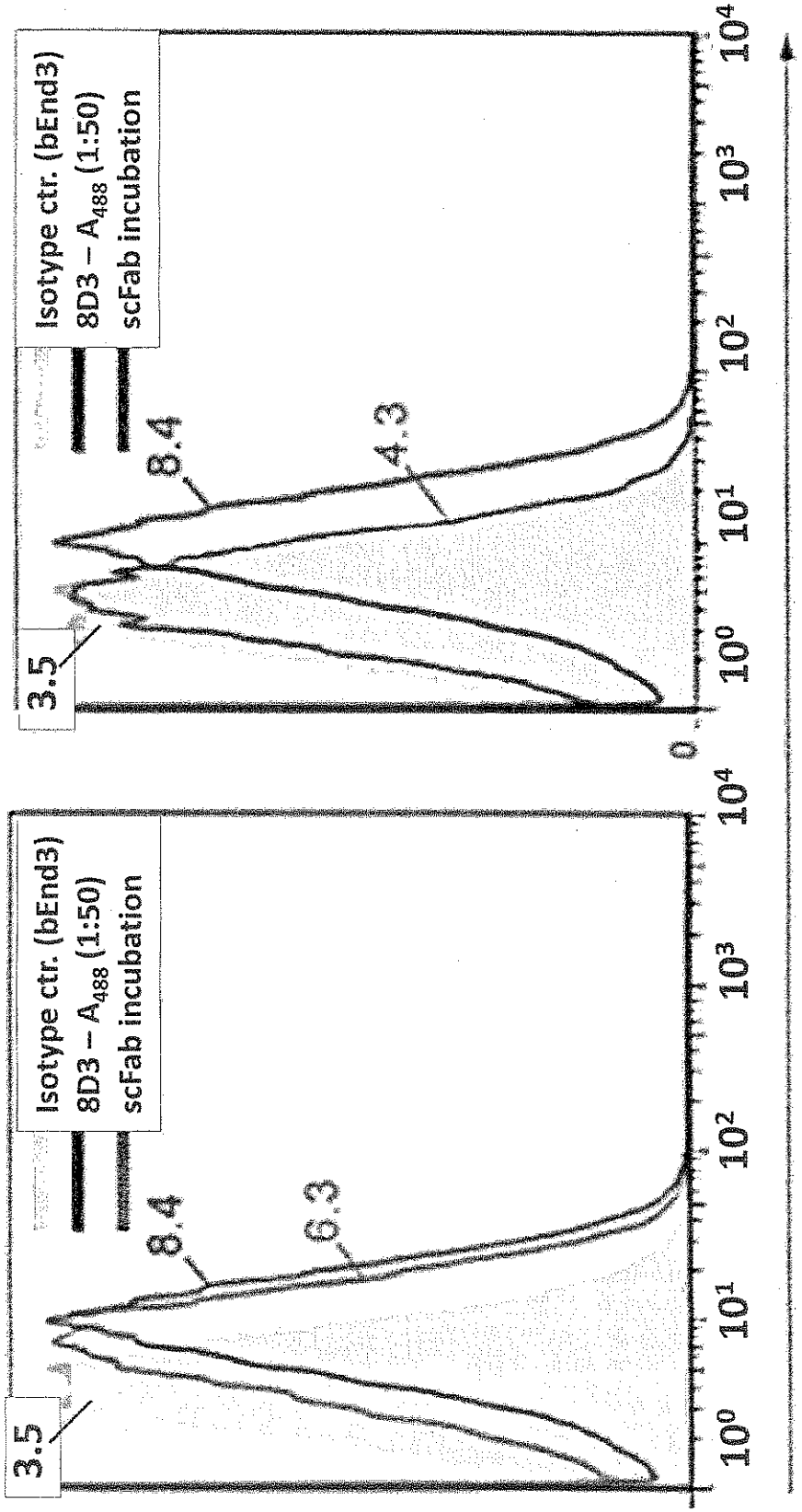

3.5
8.4
6.3
Isotype ctr. (bEnd3)
8D3 – A488 (1:50)
scFab incubation
0
10^0
10^1
10^2
10^3
10^4
8D3 – A488

Fig. 8B

3.5
8.4
4.3
Isotype ctr. (bEnd3)
8D3 – A488 (1:50)
scFab incubation
0
10^0
10^1
10^2
10^3
10^4

Fig. 9B

Fig. 9D

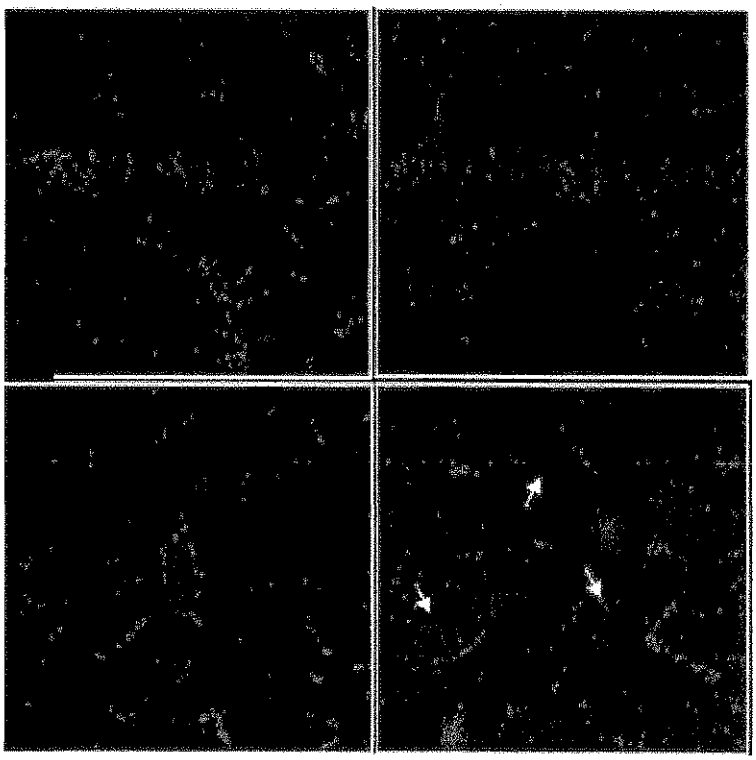


Fig. 9A

Fig. 9C

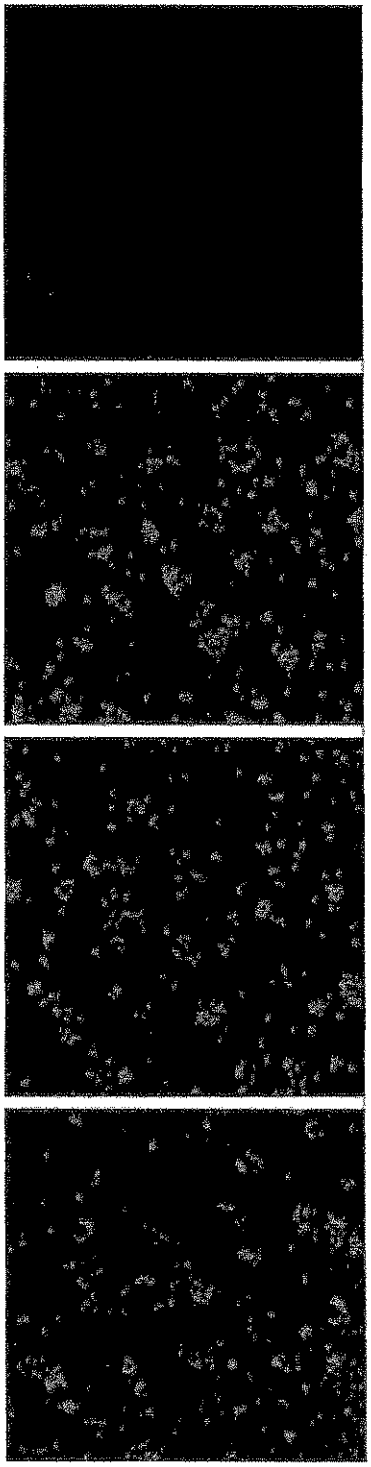
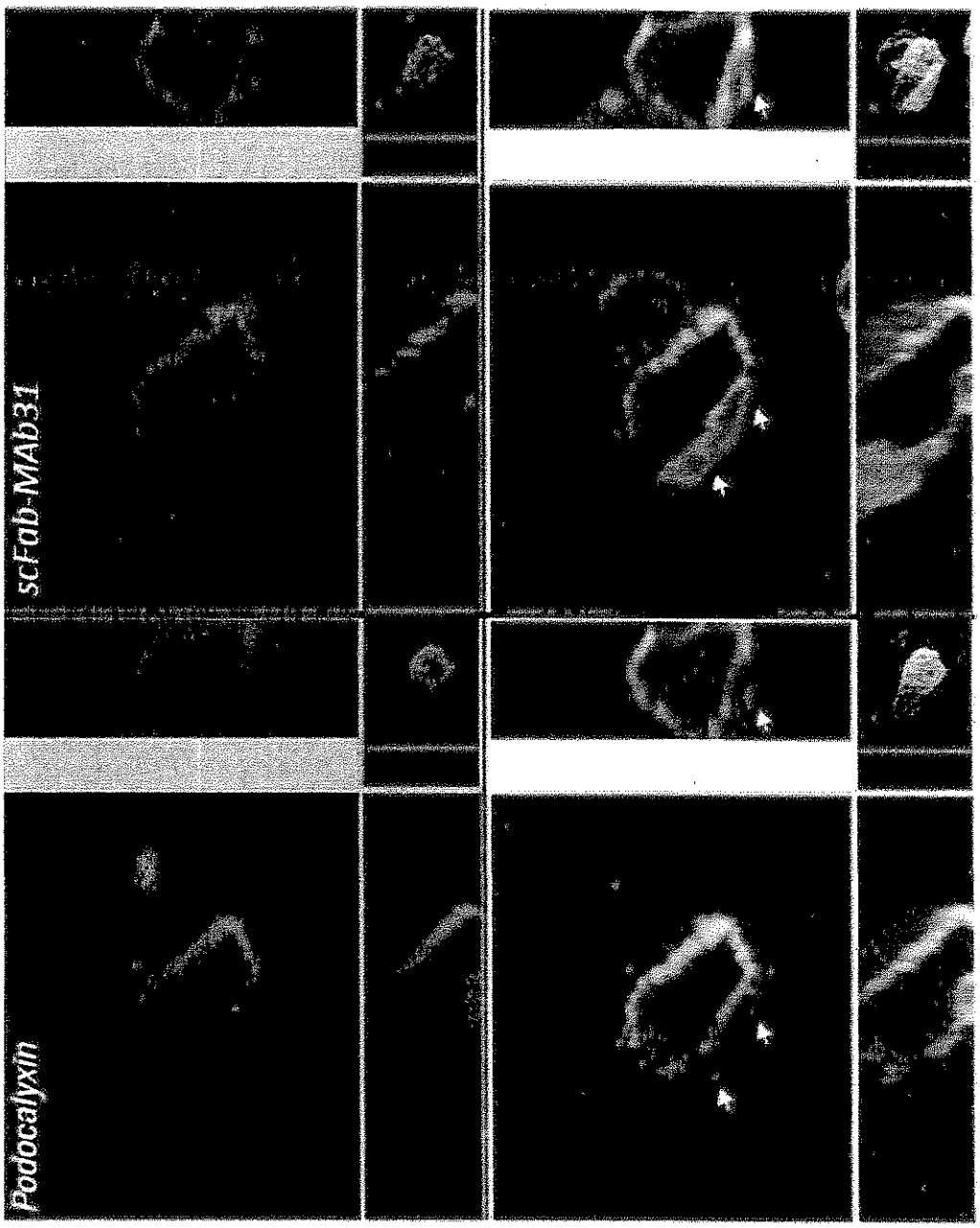

Fig. 10A
MAb31
Fig. 10B
scFab-MAb31
Fig. 10C
dFab-MAb31
Fig. 10D
Control

Fig. 11



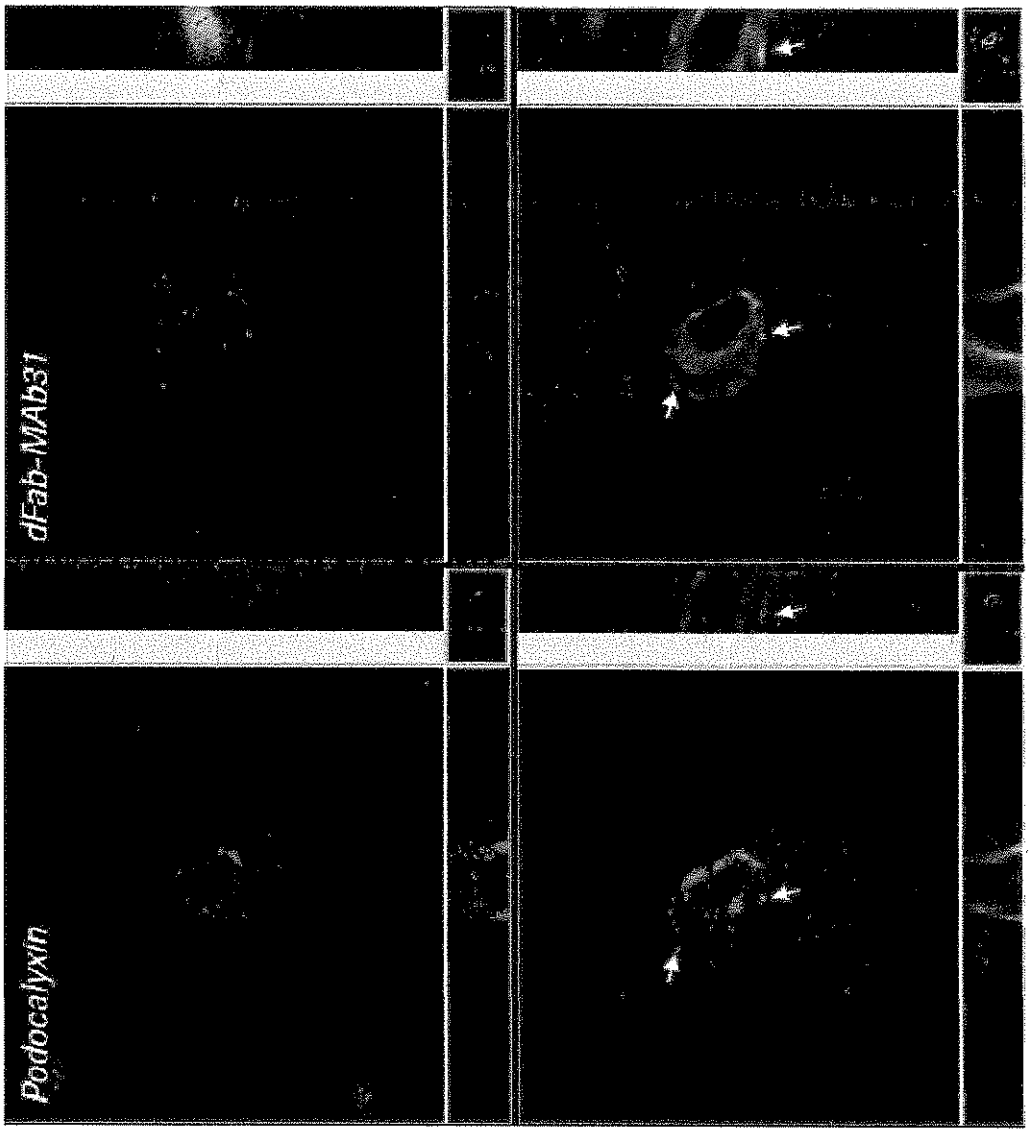


Fig. 12

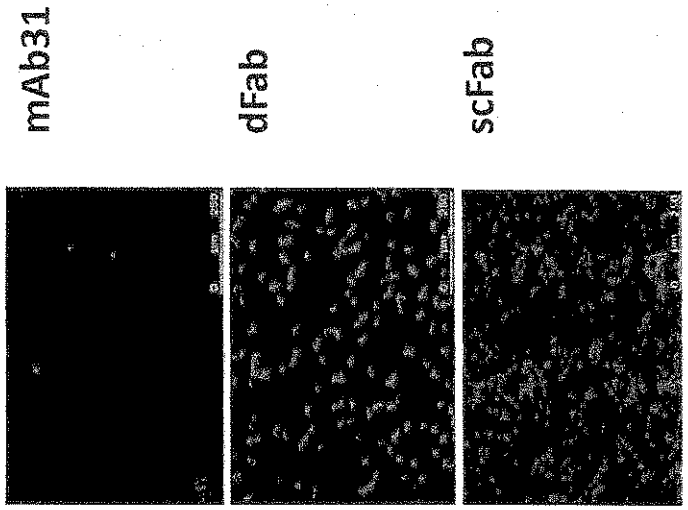
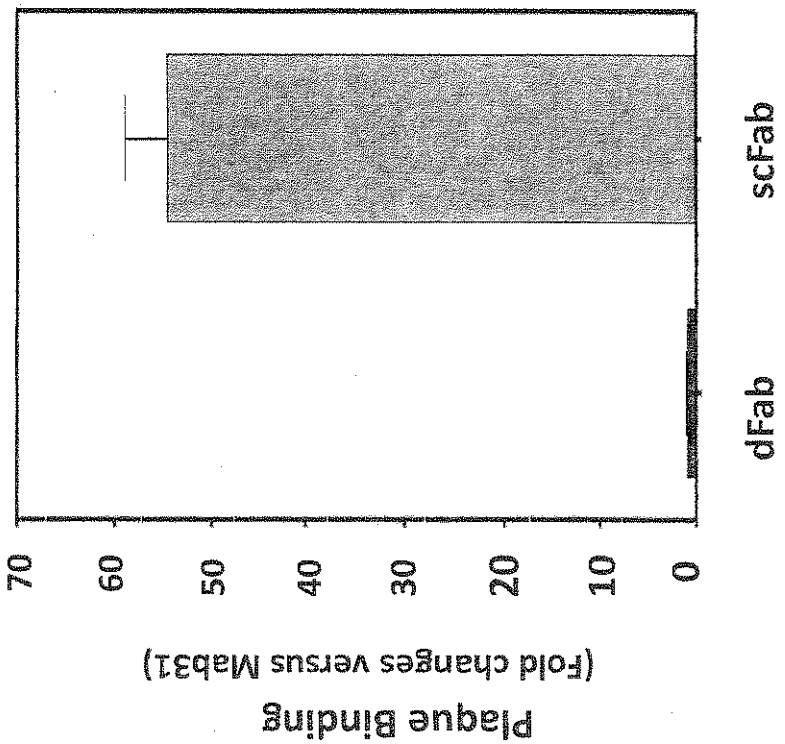


Fig. 13B

Fig. 13C

Fig. 13D

Fig. 13A



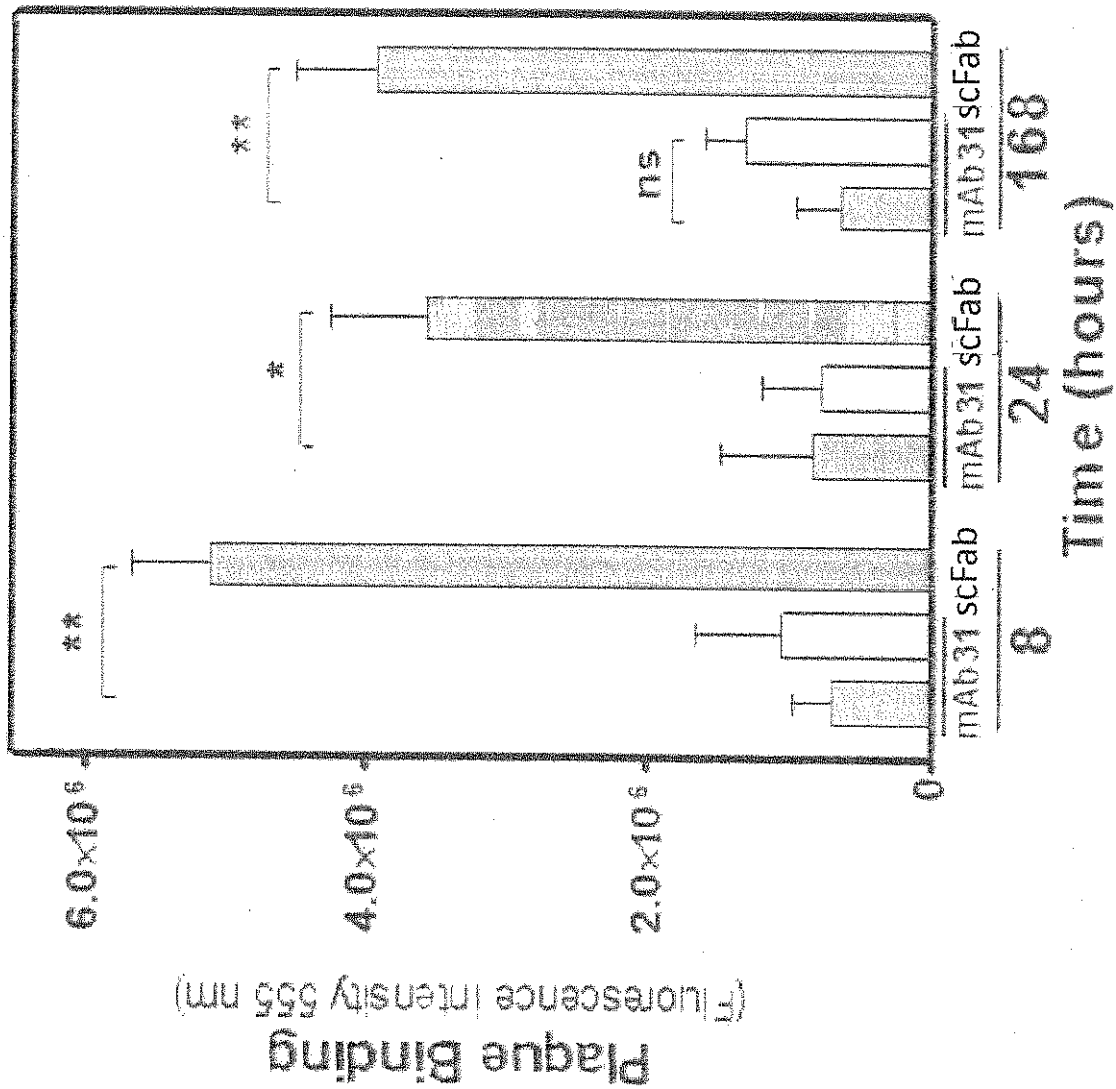

Plaque Binding
(Fluorescence Intensity 555 nm)
6.0x10^6
4.0x10^6
2.0x10^6
0
**
*
ns
**
mAb31 scFab
mAb31 scFab
mAb31 scFab
8
24
168
Time (hours)

Fig. 13E

Fig. 13F

mAb31



Fig. 13G

scFab

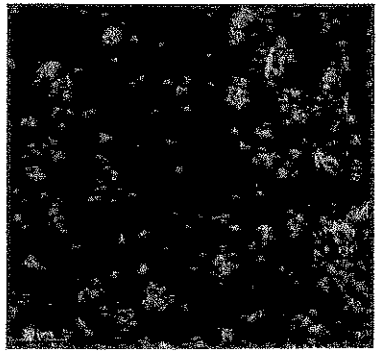


Fig. 14A

Low dose mAb31

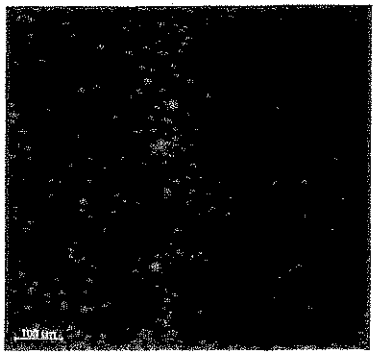


Fig. 14B

Mid dose mAb31

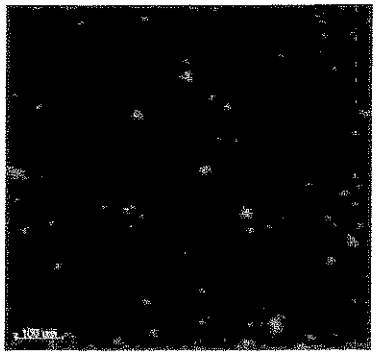


Fig. 14C

Low dose scFab

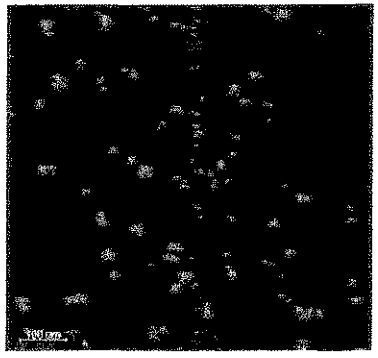


Fig. 14D

Mid dose scFab

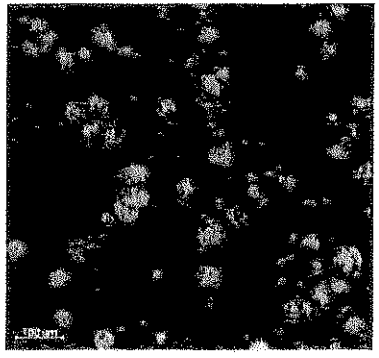


Fig. 14E

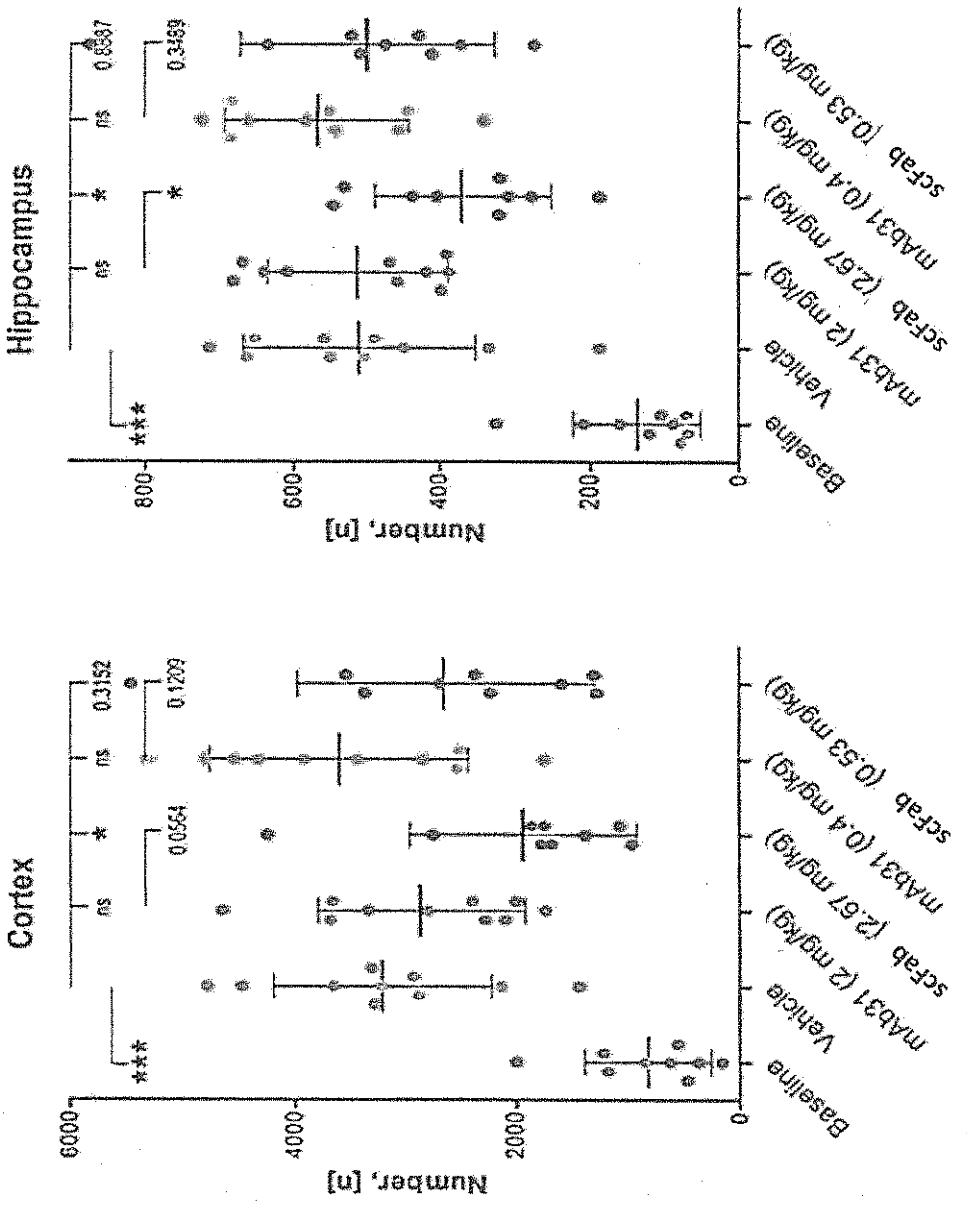
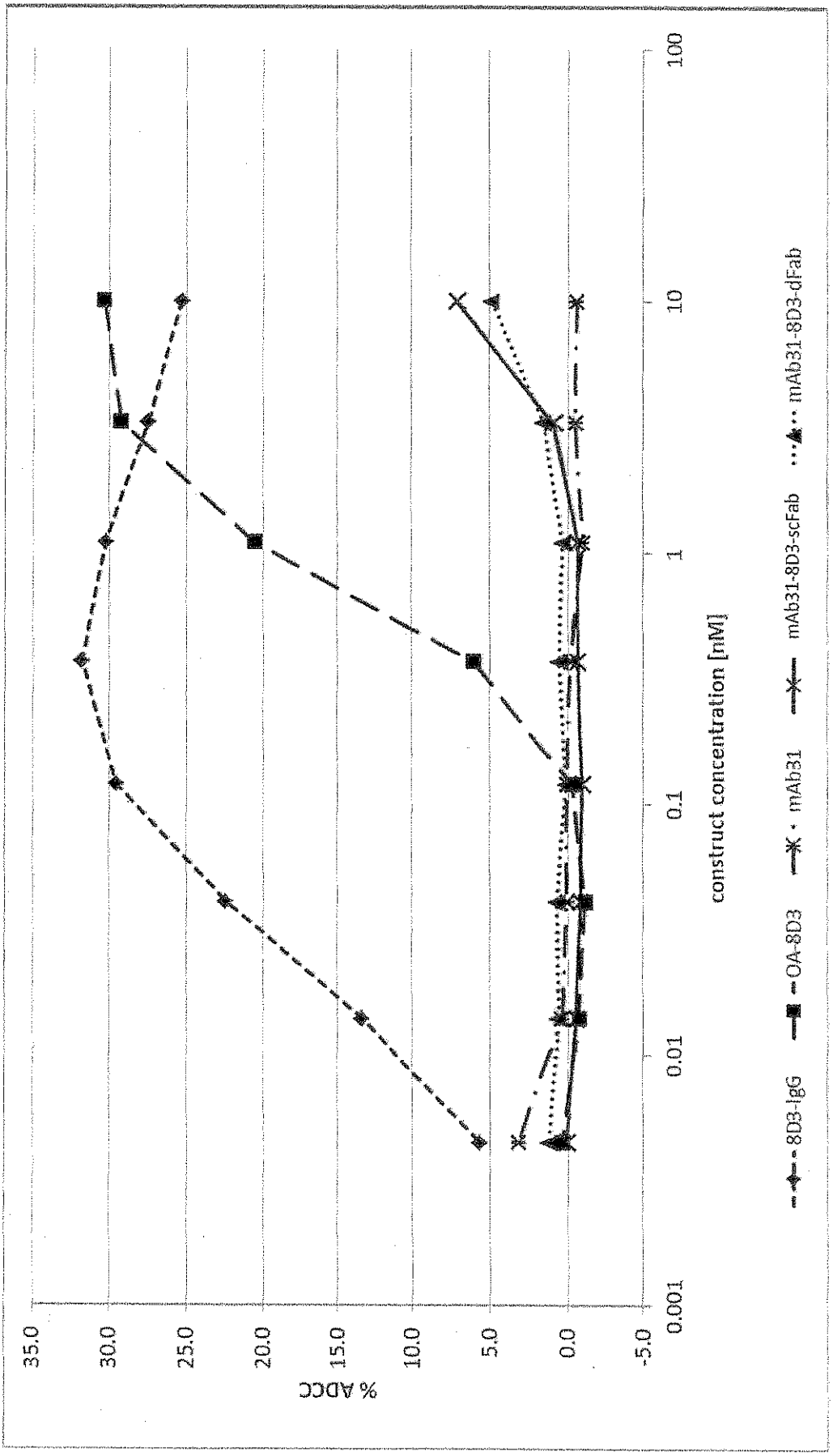

Cortex
Hippocampus
Number, [n]
6000
4000
2000
800
600
400
200
0
***
ns
*
0.0564
0.3152
0.1209
0.8837
0.3459
Baseline
Vehicle
mAb31 (2 mg/kg)
scFab (2.67 mg/kg)
mAb31 (0.4 mg/kg)
scFab (0.53 mg/kg)

Fig. 15


35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
% ADCC
0.001
0.01
0.1
1
10
100
construct concentration [nM]
8D3-IgG
OA-8D3
mAb31
mAb31-8D3-scFab
mAb31-8D3-dFab

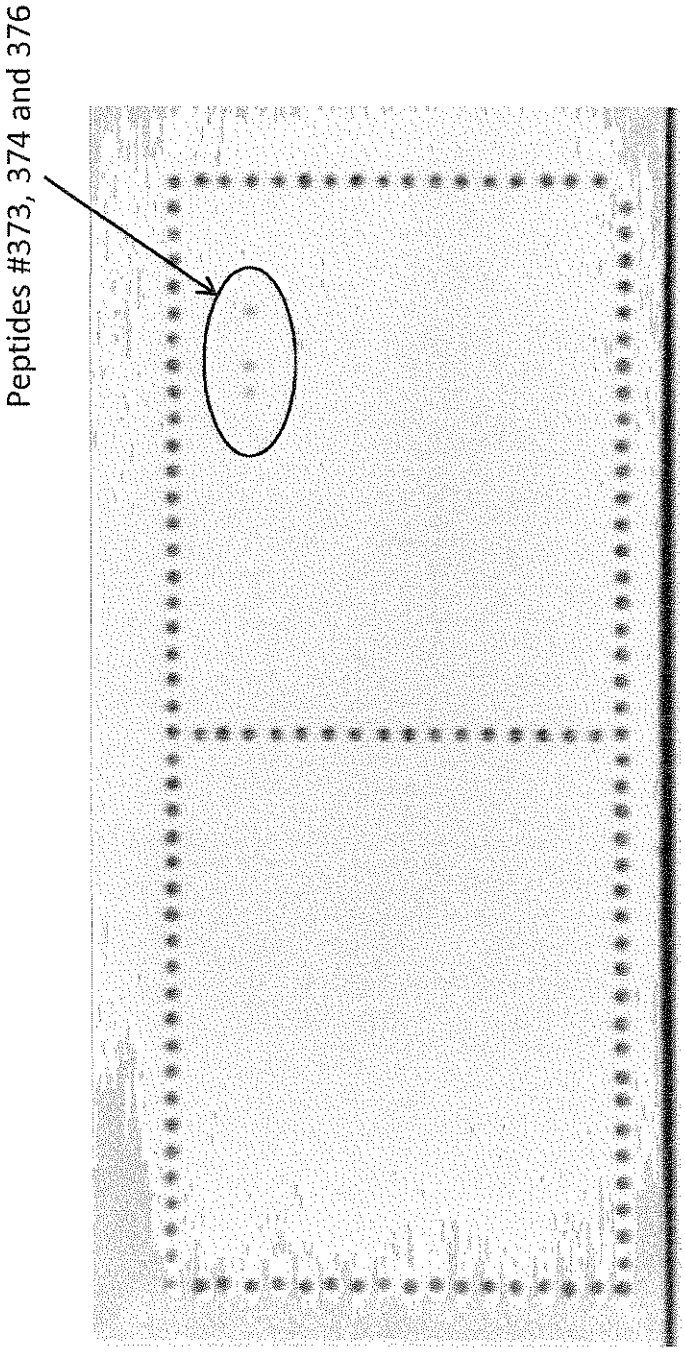


Fig. 16