Fig. 1A

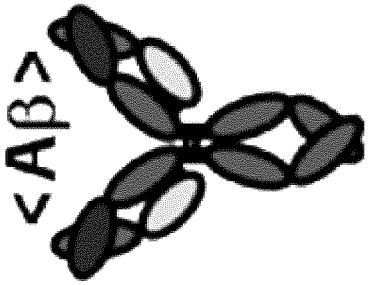


Fig. 1B

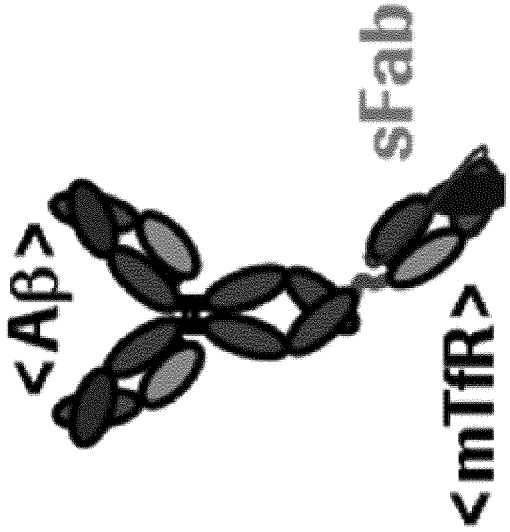


Fig. 1C

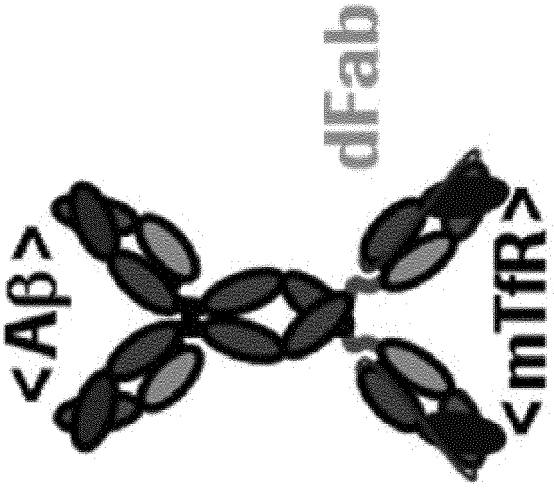


Fig. 2

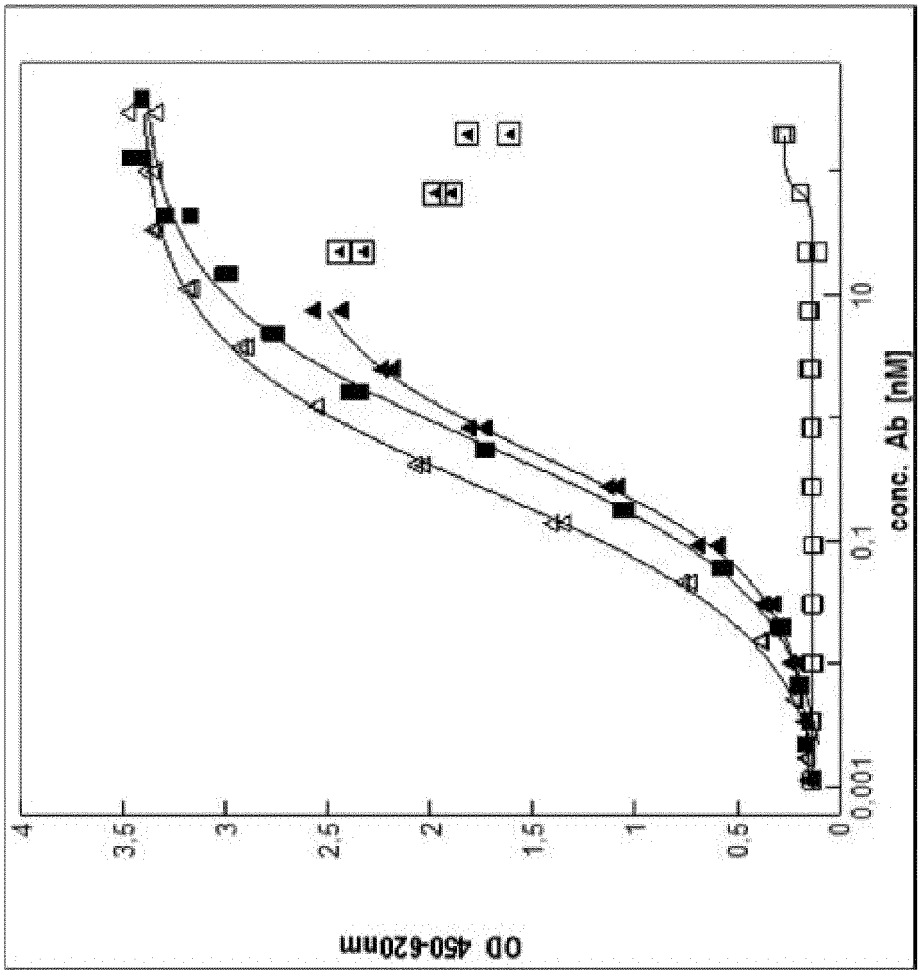


Fig. 3

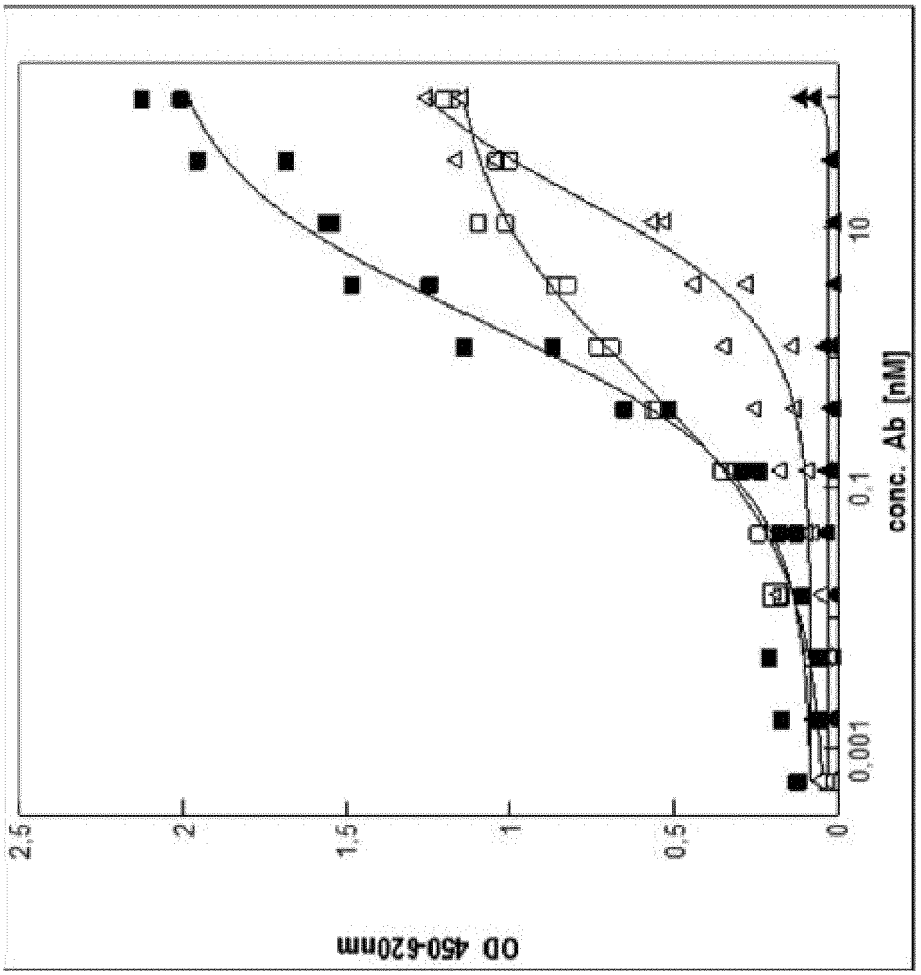
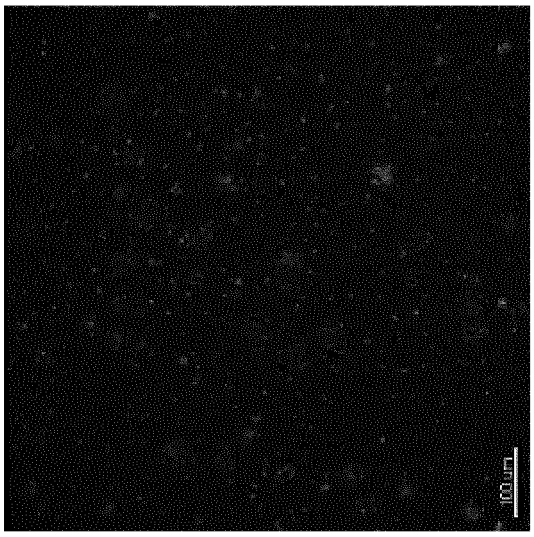
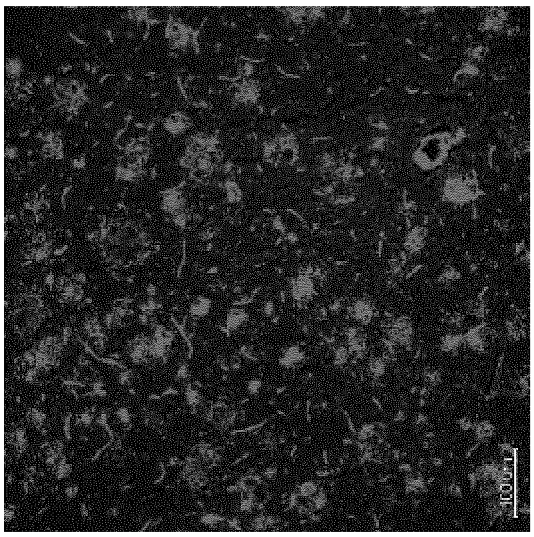


Fig. 4A



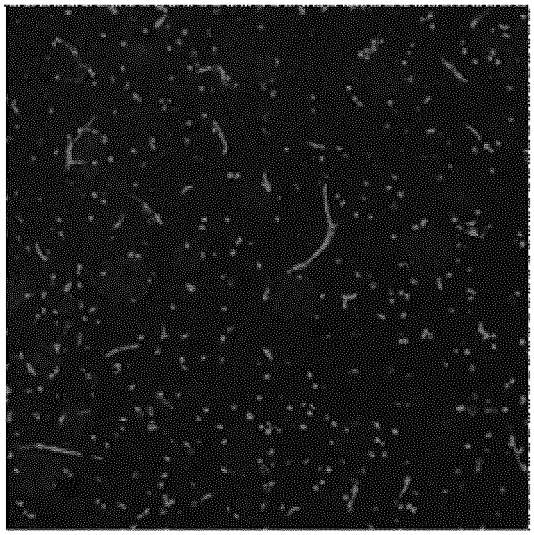
mAb31

Fig. 4B



sFab-mAb31

Fig. 4C



dFab-mAb31

Fig. 5

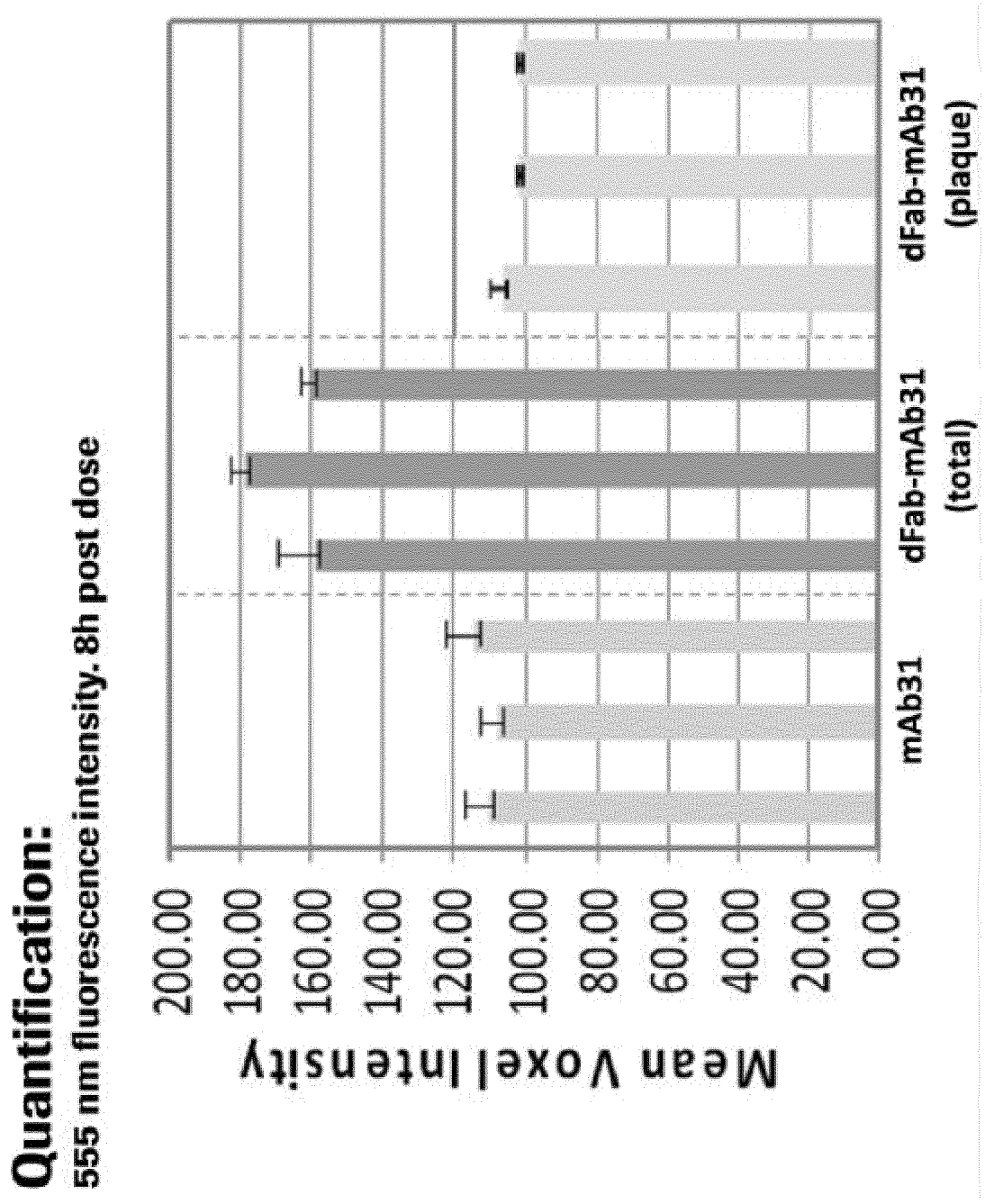

Quantification:
555 nm fluorescence intensity. 8h post dose
Mean Voxel Intensity
200.00
180.00
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
mAb31
dFab-mAb31 (total)
dFab-mAb31 (plaque)

Fig. 6

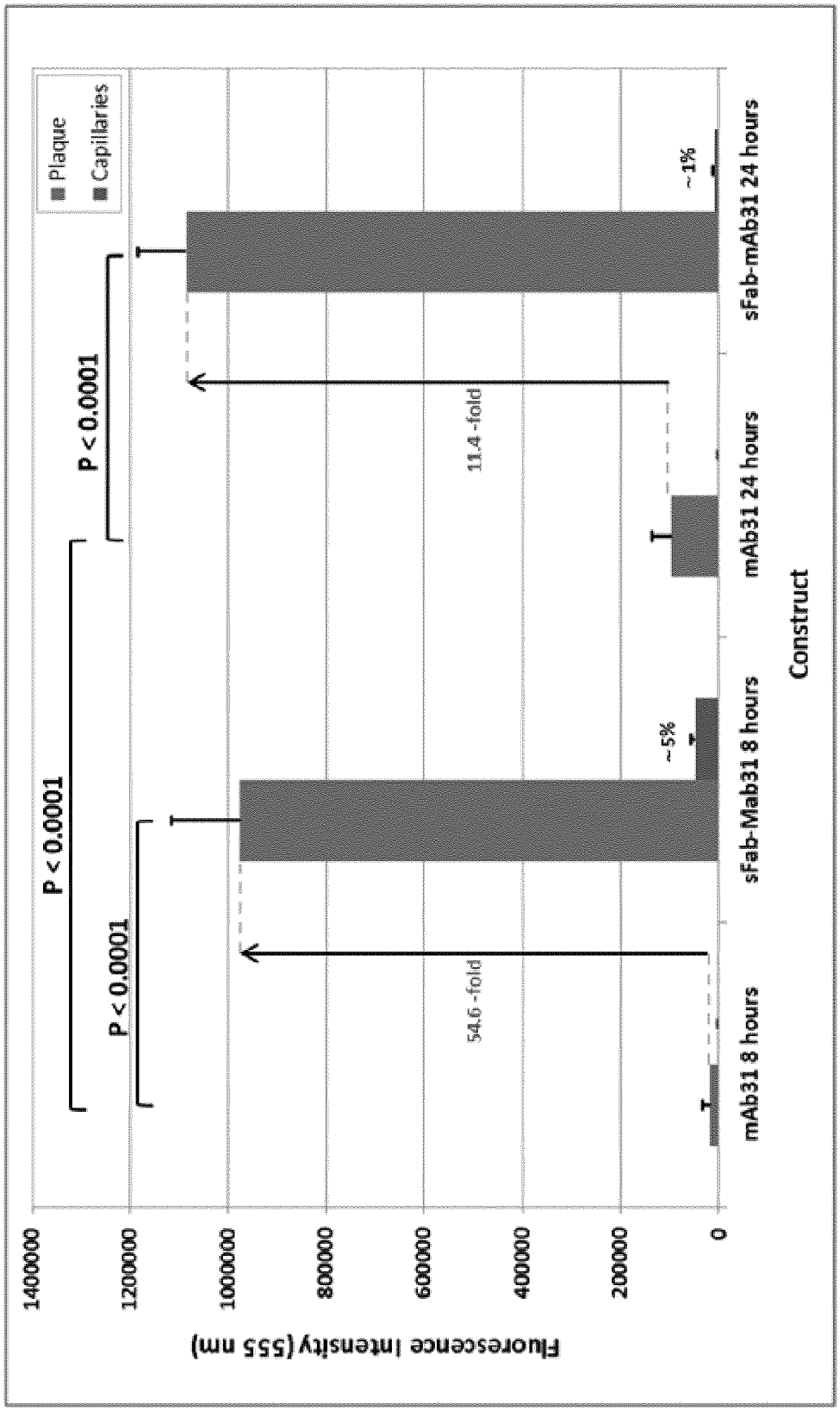

Plaque
Capillaries
Fluorescence Intensity (555 nm)
1400000
1200000
1000000
800000
600000
400000
200000
0
P < 0.0001
P < 0.0001
P < 0.0001
54.6 -fold
11.4 -fold
~5%
~1%
mAb31 8 hours
sFab-Mab31 8 hours
mAb31 24 hours
sFab-mAb31 24 hours
Construct

Fig. 7

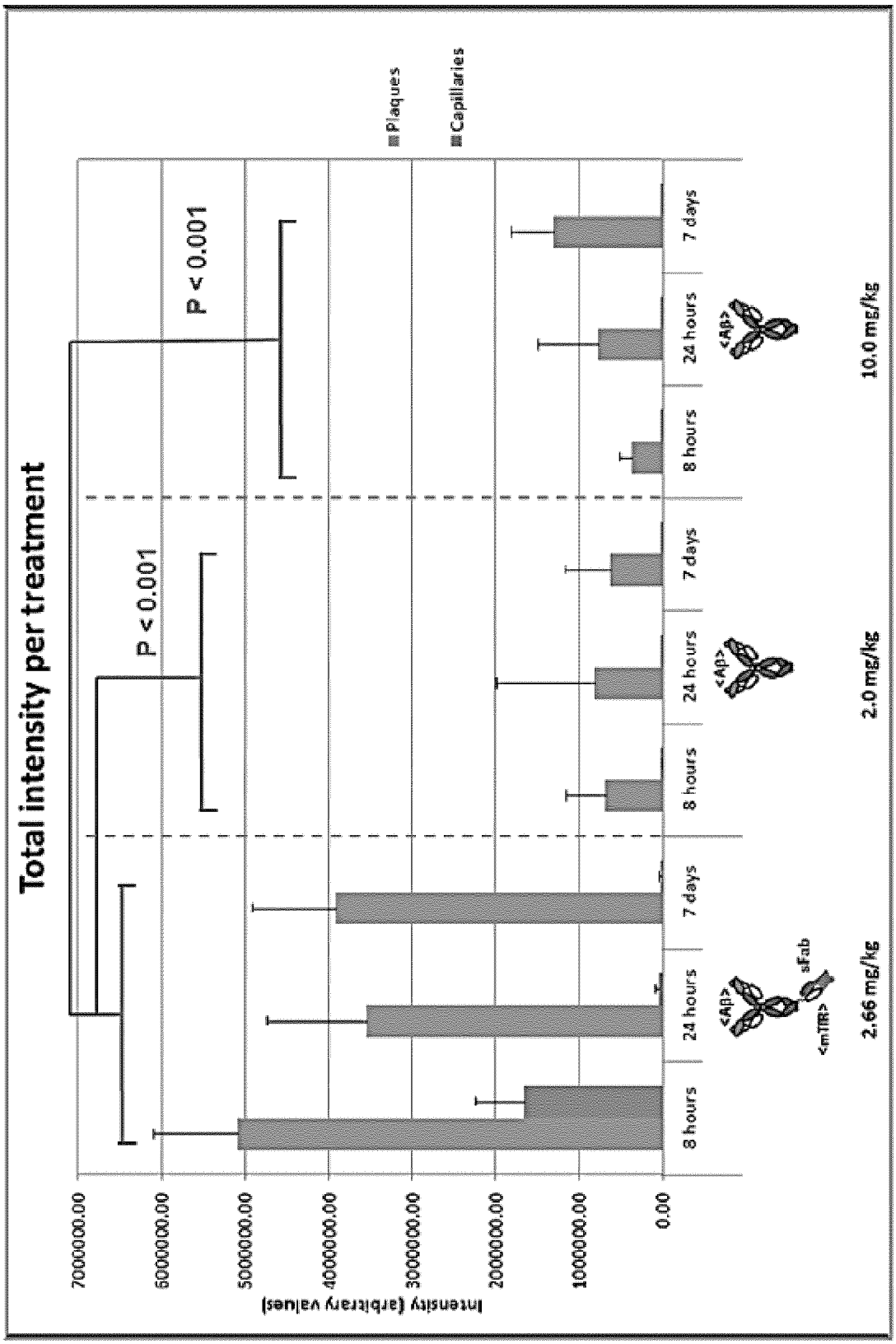

Total intensity per treatment
Plaques
Capillaries
P < 0.001
P < 0.001
Intensity (arbitrary values)
7000000.00
6000000.00
5000000.00
4000000.00
3000000.00
2000000.00
1000000.00
0.00
8 hours
24 hours
7 days
8 hours
24 hours
7 days
8 hours
24 hours
7 days
<Aβ>
<mTfR>
sFab
2.66 mg/kg
2.0 mg/kg
10.0 mg/kg

Fig. 8A

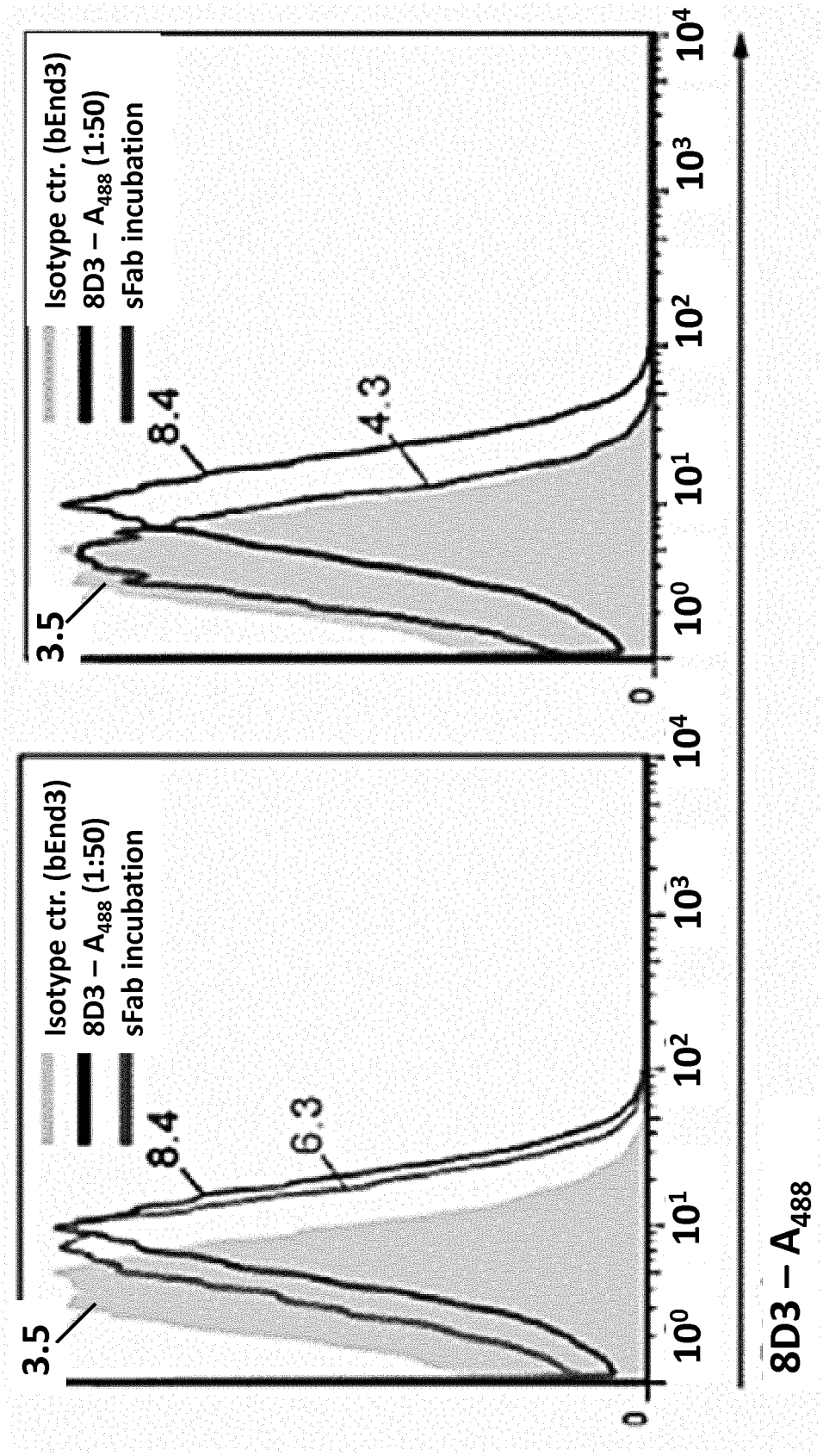

Isotype ctr. (bEnd3)
8D3 – A_{488} (1:50)
sFab incubation
3.5
8.4
6.3
0
10^0
10^1
10^2
10^3
10^4
8D3 – A_{488}

Fig. 8B

Isotype ctr. (bEnd3)
8D3 – A_{488} (1:50)
sFab incubation
3.5
8.4
4.3
0
10^0
10^1
10^2
10^3
10^4

Fig. 9B

Fig. 9D

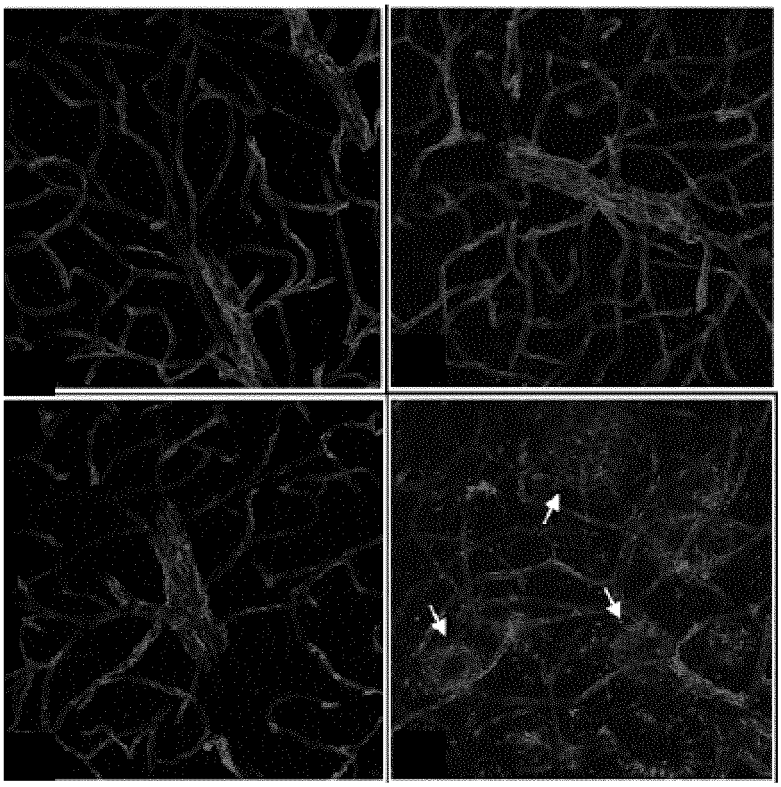
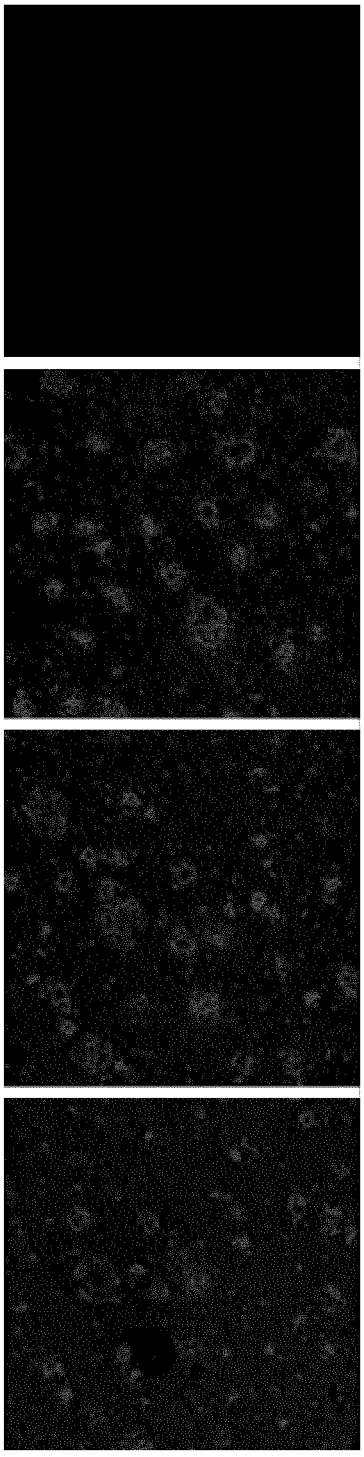


Fig. 9A

Fig. 9C


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

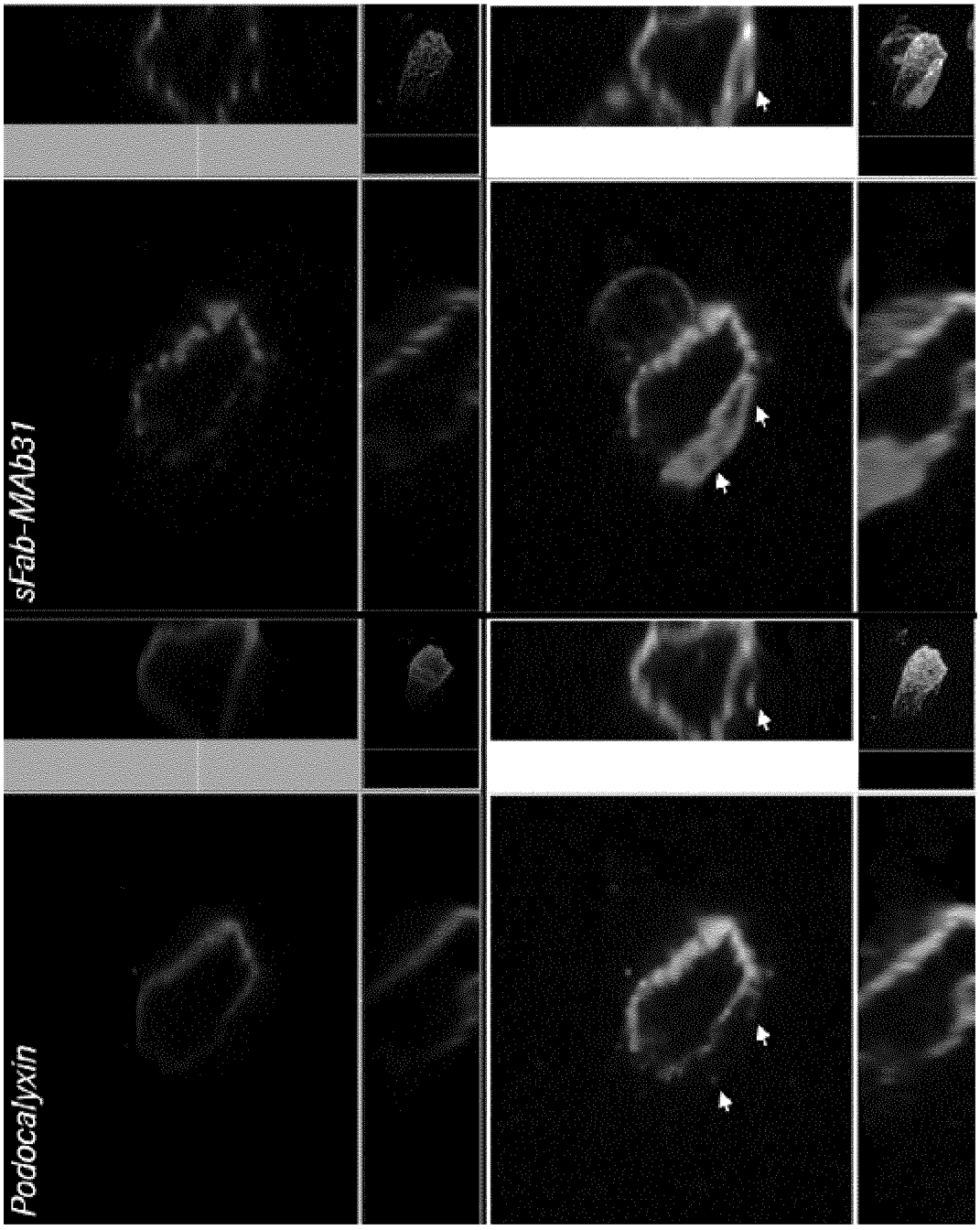
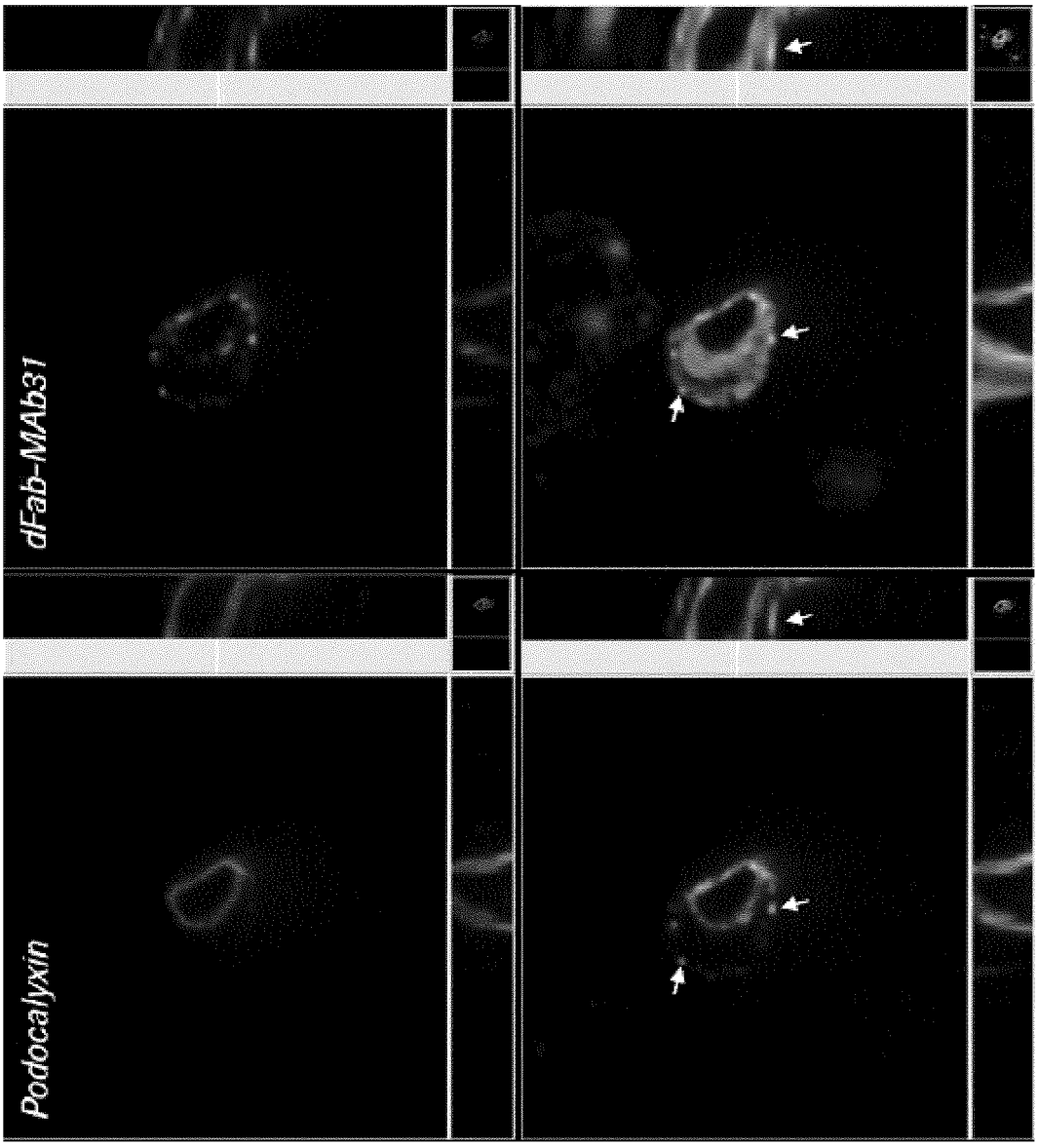


Fig. 11

Fig. 12



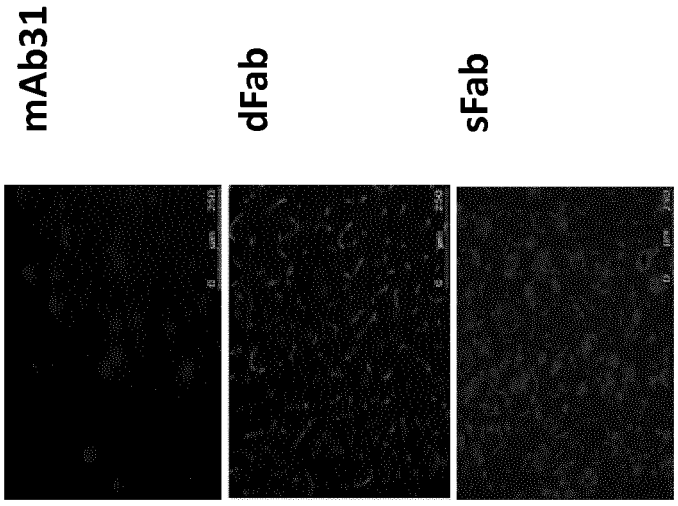


Fig. 13B Fig. 13C Fig. 13D

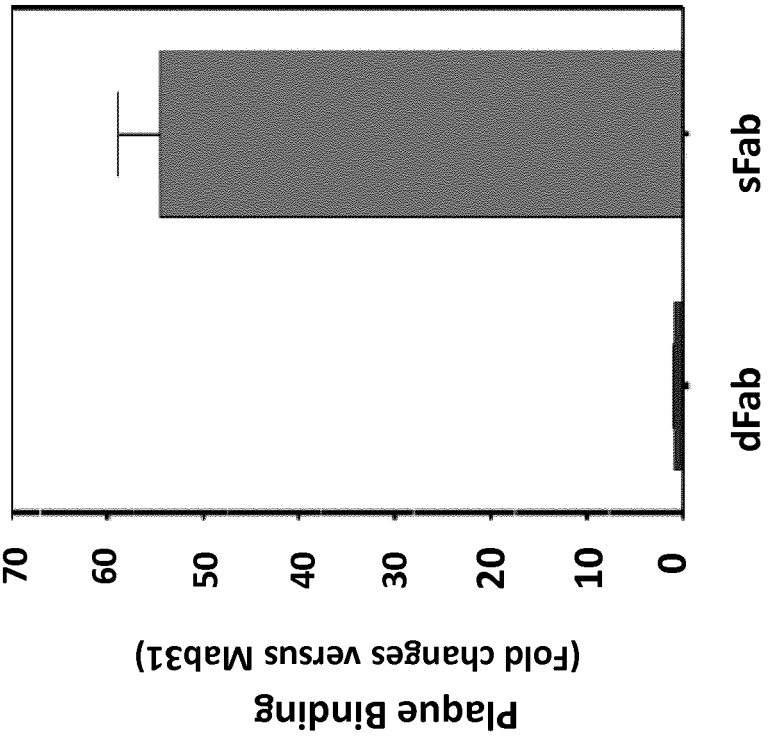


Fig. 13A

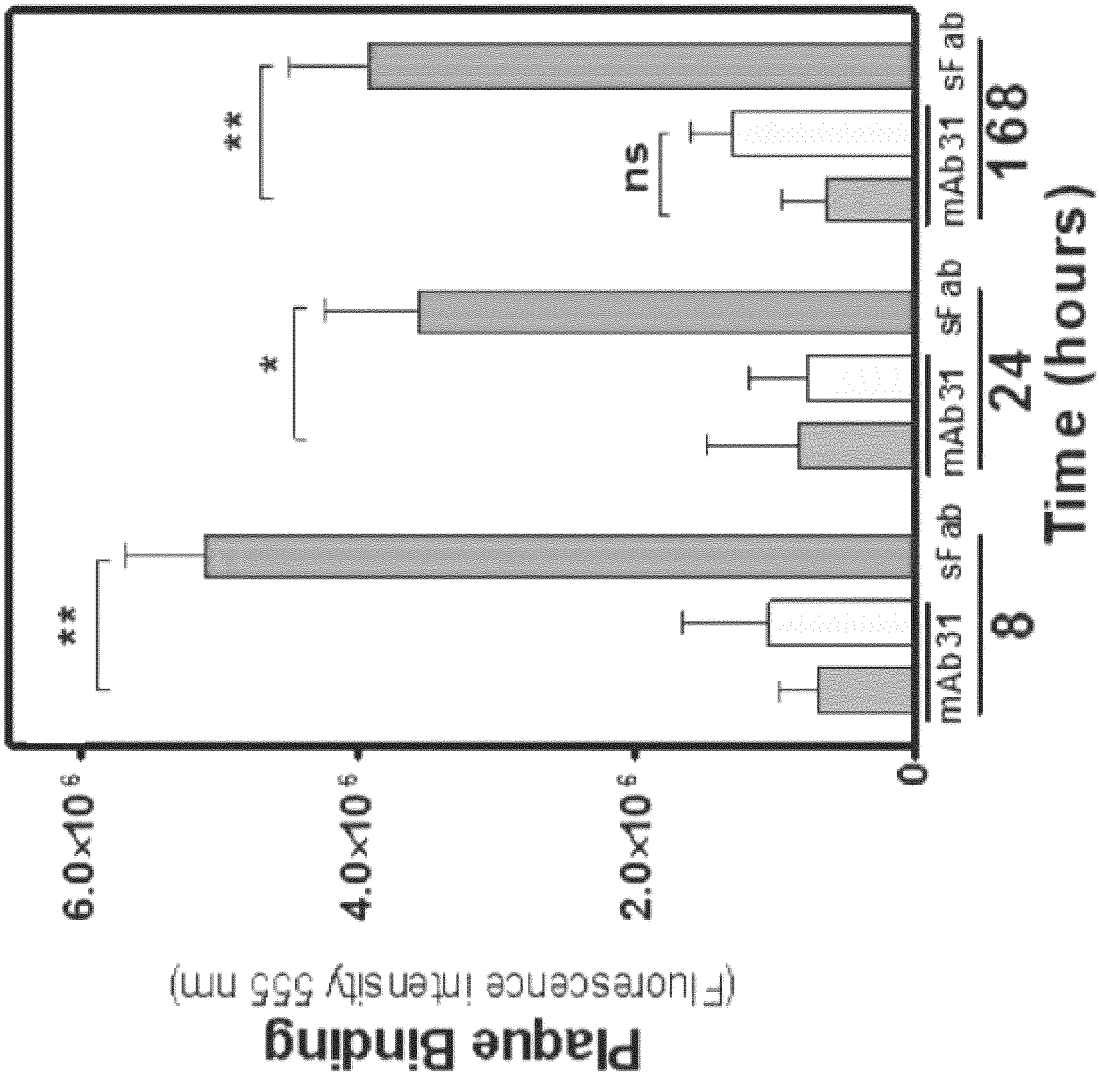

Plaque Binding
(Fluorescence intensity 555 nm)
6.0×10⁶
4.0×10⁶
2.0×10⁶
0
**
*
ns
**
mAb31
sF ab
8
24
168
Time (hours)

Fig. 13E

Fig. 13F
mAb31

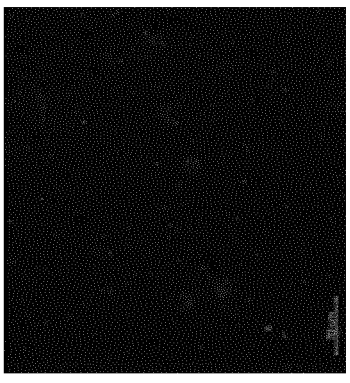


Fig. 13G
sFab

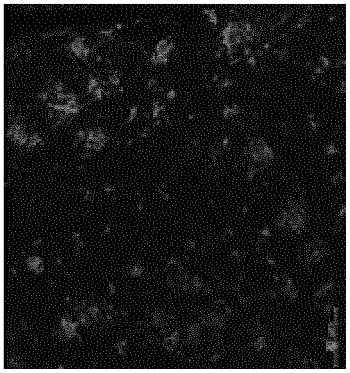


Fig. 14A
Low dose mAb31

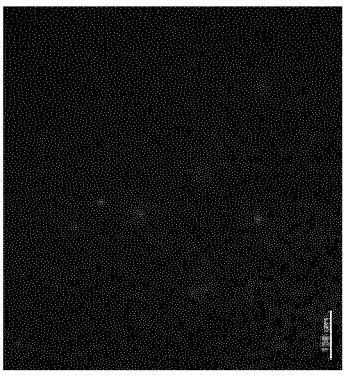


Fig. 14B
Mid dose mAb31

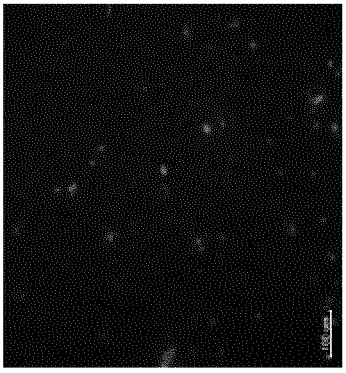


Fig. 14C
Low dose sFab

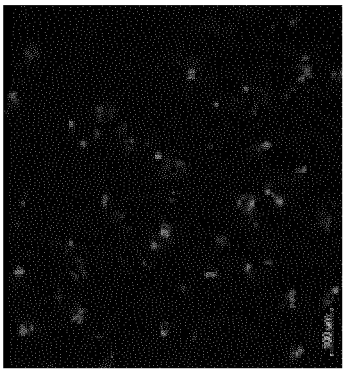
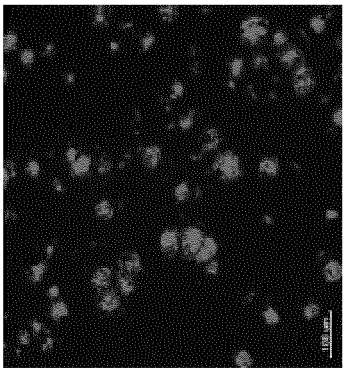


Fig. 14D
Mid dose sFab



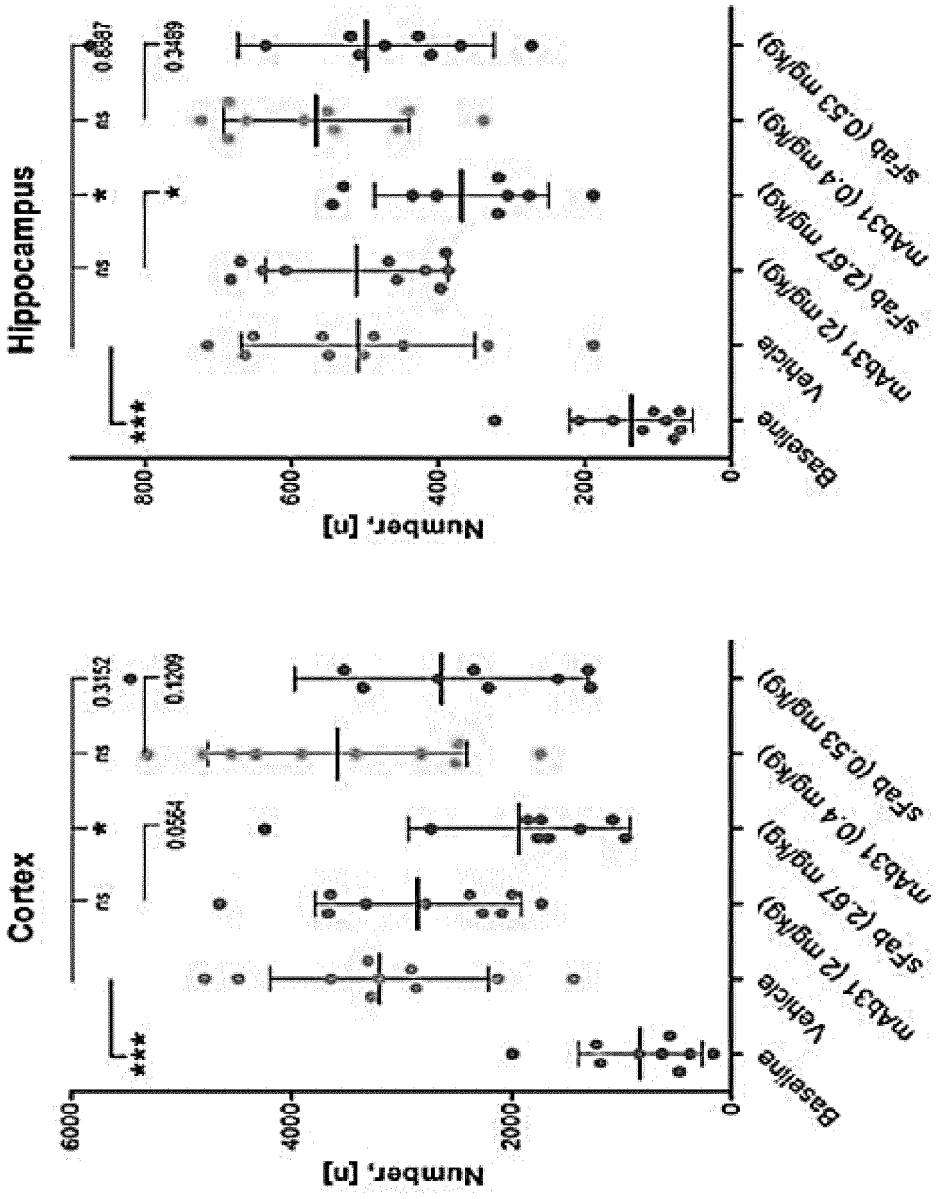

Hippocampus
Cortex
Number, [n]
Baseline
Vehicle
mAb31 (2 mg/kg)
sFab (2.67 mg/kg)
mAb31 (0.4 mg/kg)
sFab (0.53 mg/kg)
***
*
ns
0.6887
0.3489
0.3152
0.1209
0.0554

Fig. 14E

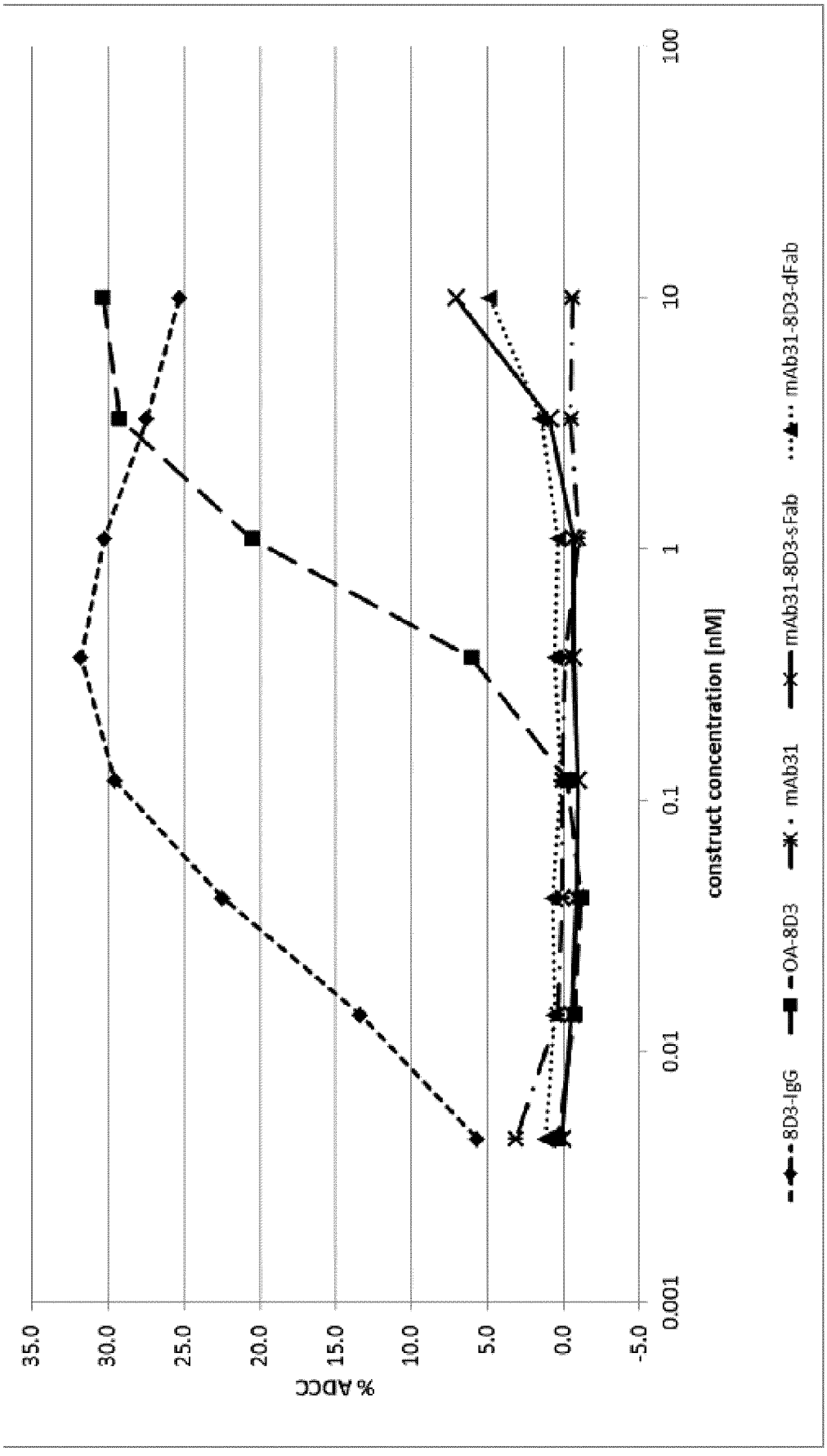

% ADCC
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
0.001
0.01
0.1
1
10
100
construct concentration [nM]
8D3-IgG
OA-8D3
mAb31
mAb31-8D3-sFab
mAb31-8D3-dFab

Fig. 15

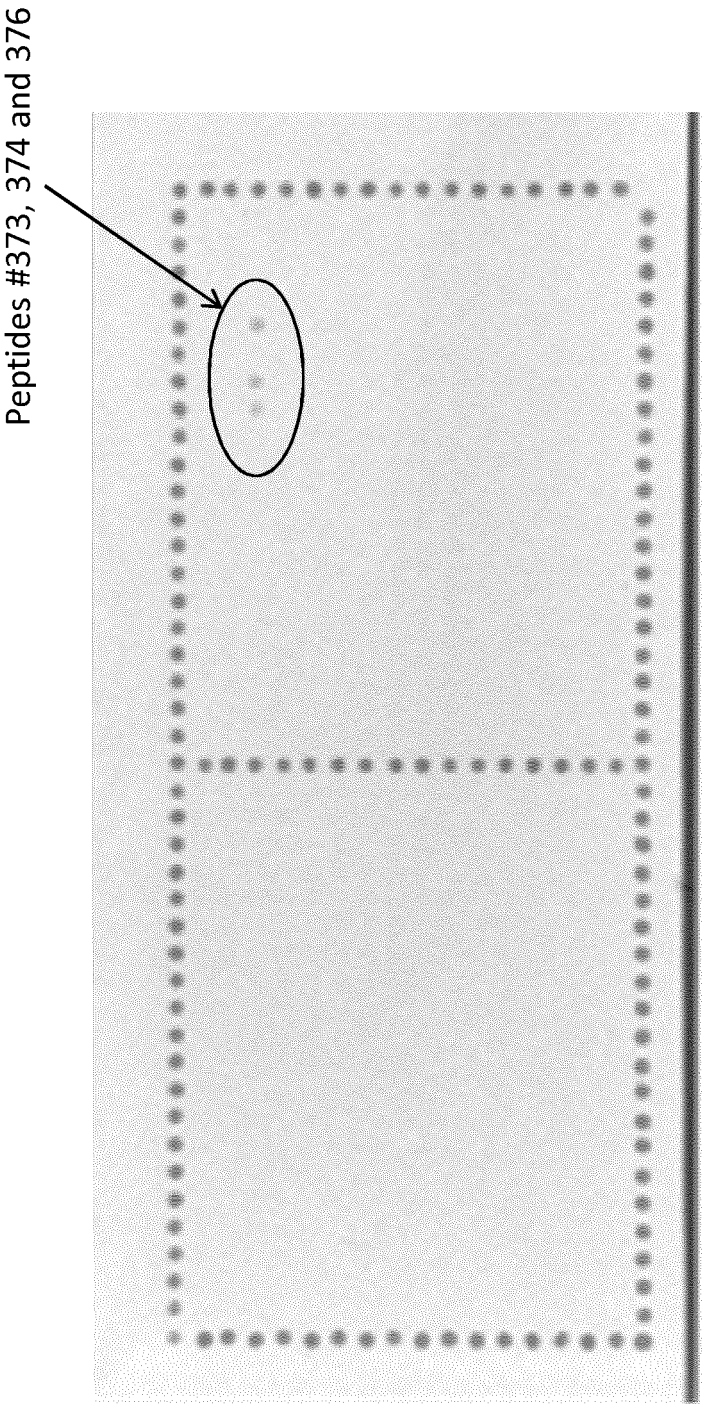


Fig. 16