Figure 1

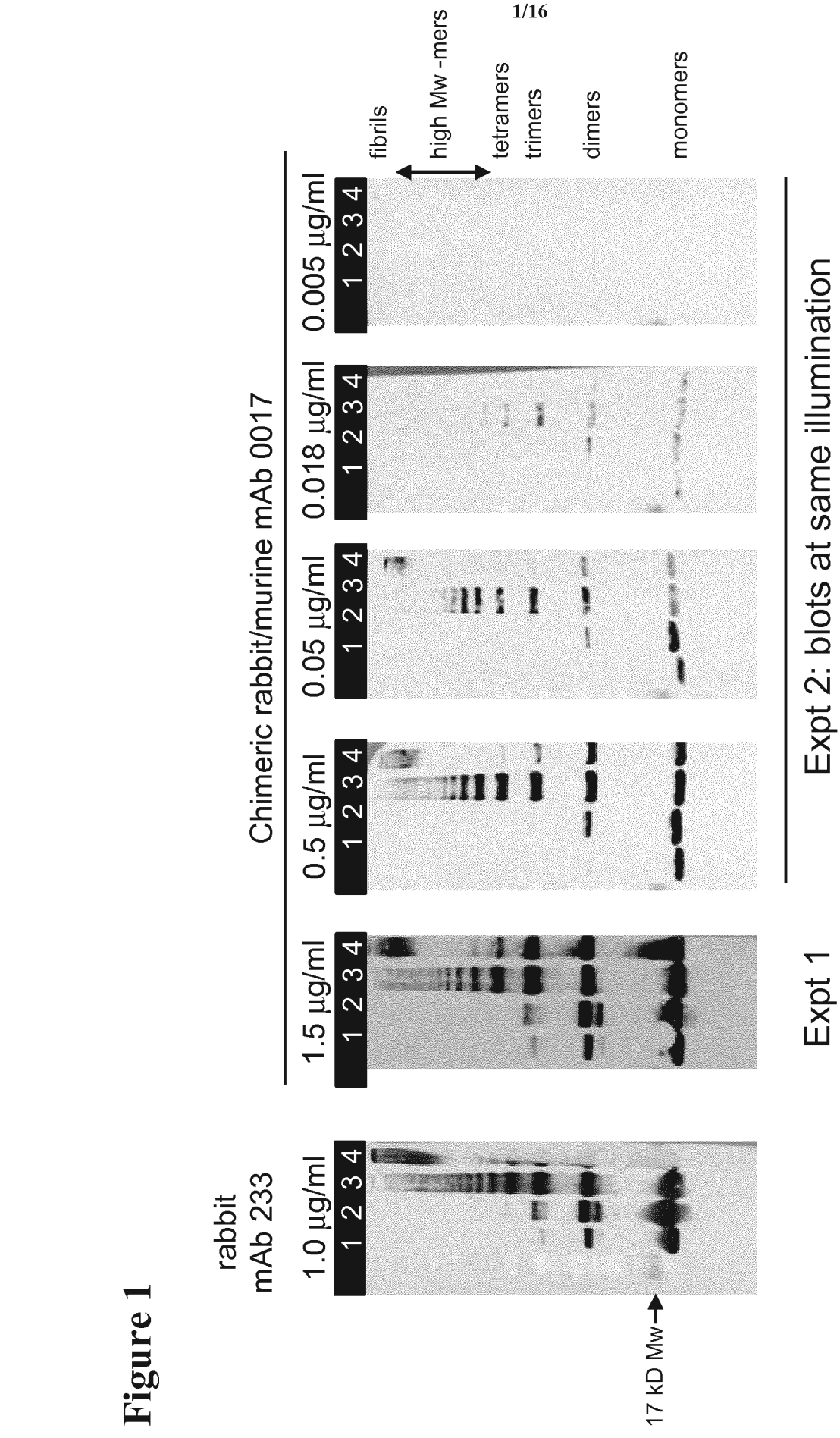

rabbit mAb 233
1.0 µg/ml
1 2 3 4
1.5 µg/ml
1 2 3 4
Chimeric rabbit/murine mAb 0017
0.5 µg/ml
1 2 3 4
0.05 µg/ml
1 2 3 4
0.018 µg/ml
1 2 3 4
0.005 µg/ml
1 2 3 4
fibrils
high Mw -mers
tetramers
trimers
dimers
monomers
17 kD Mw
Expt 1
Expt 2: blots at same illumination

Figure 2

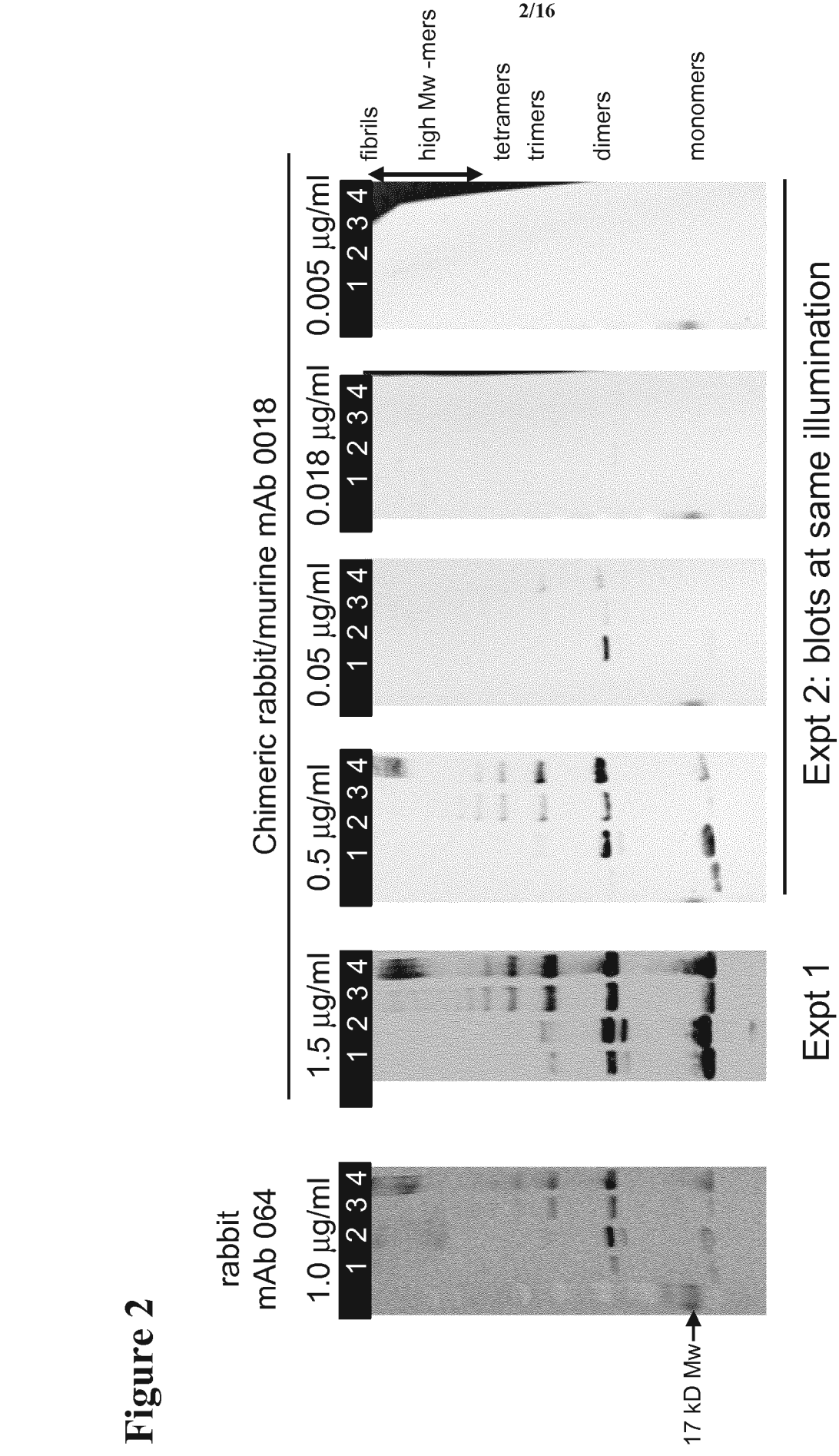

rabbit mAb 064
1.0 µg/ml
1 2 3 4
17 kD Mw
Chimeric rabbit/murine mAb 0018
1.5 µg/ml
1 2 3 4
0.5 µg/ml
1 2 3 4
0.05 µg/ml
1 2 3 4
0.018 µg/ml
1 2 3 4
0.005 µg/ml
1 2 3 4
fibrils
high Mw -mers
tetramers
trimers
dimers
monomers
Expt 1
Expt 2: blots at same illumination

Figure 3

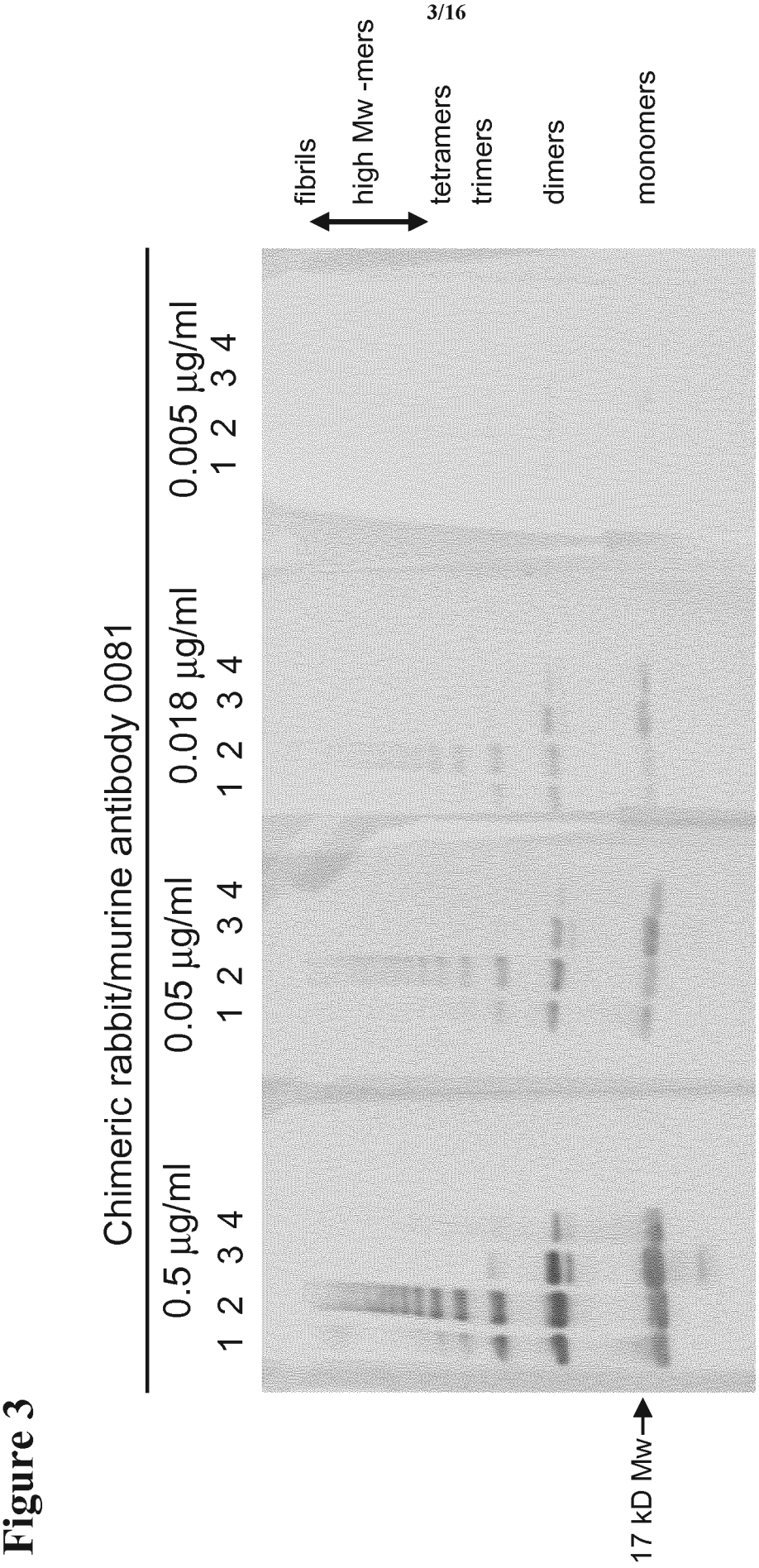

Chimeric rabbit/murine antibody 0081
0.5 µg/ml
1 2 3 4
0.05 µg/ml
1 2 3 4
0.018 µg/ml
1 2 3 4
0.005 µg/ml
1 2 3 4
fibrils
high Mw -mers
tetramers
trimers
dimers
monomers
17 kD Mw

Figure 4

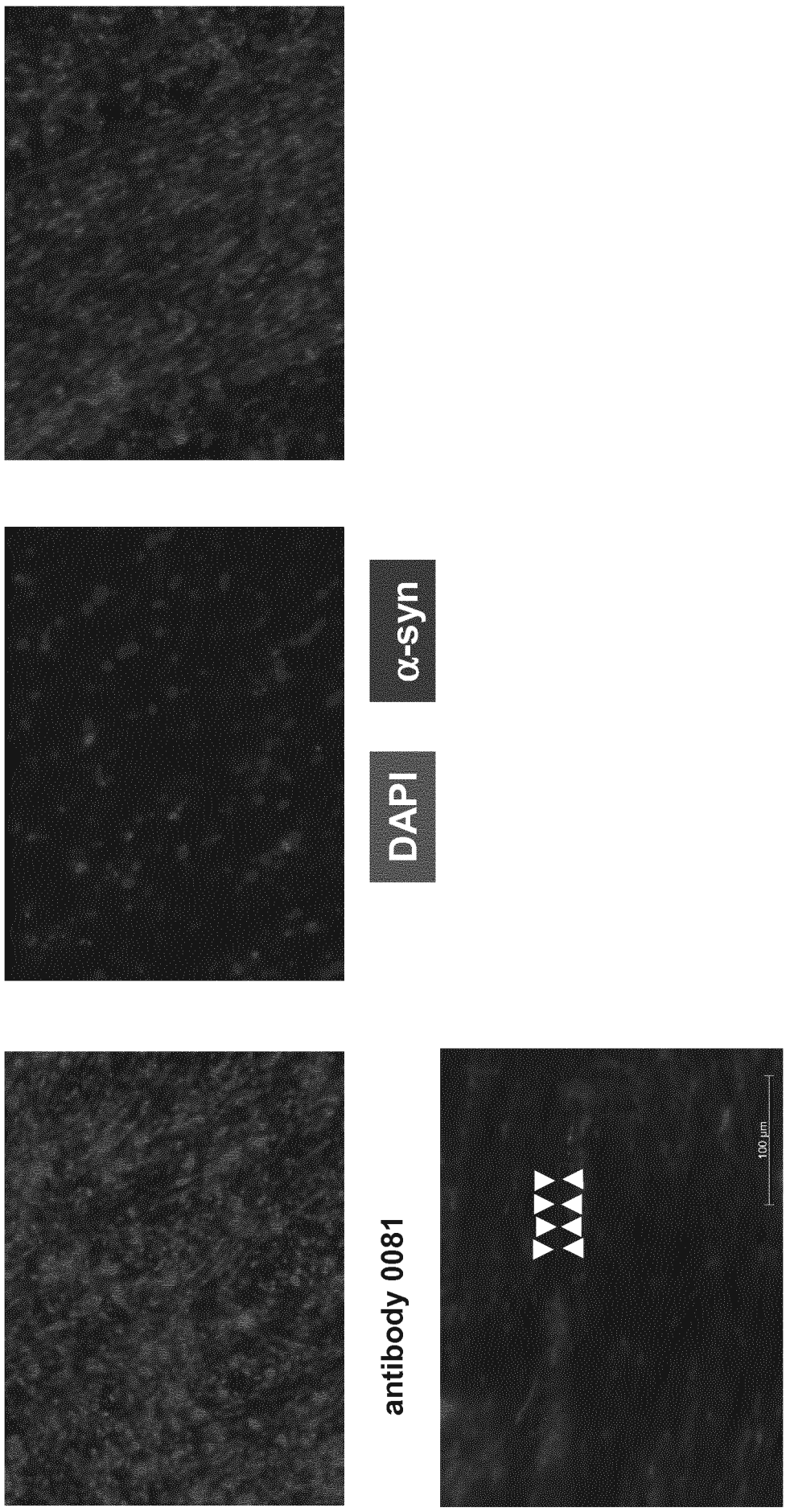

antibody 0017
antibody 0018
12F4
antibody 0081
DAPI
α-syn
100 µm

Figure 5

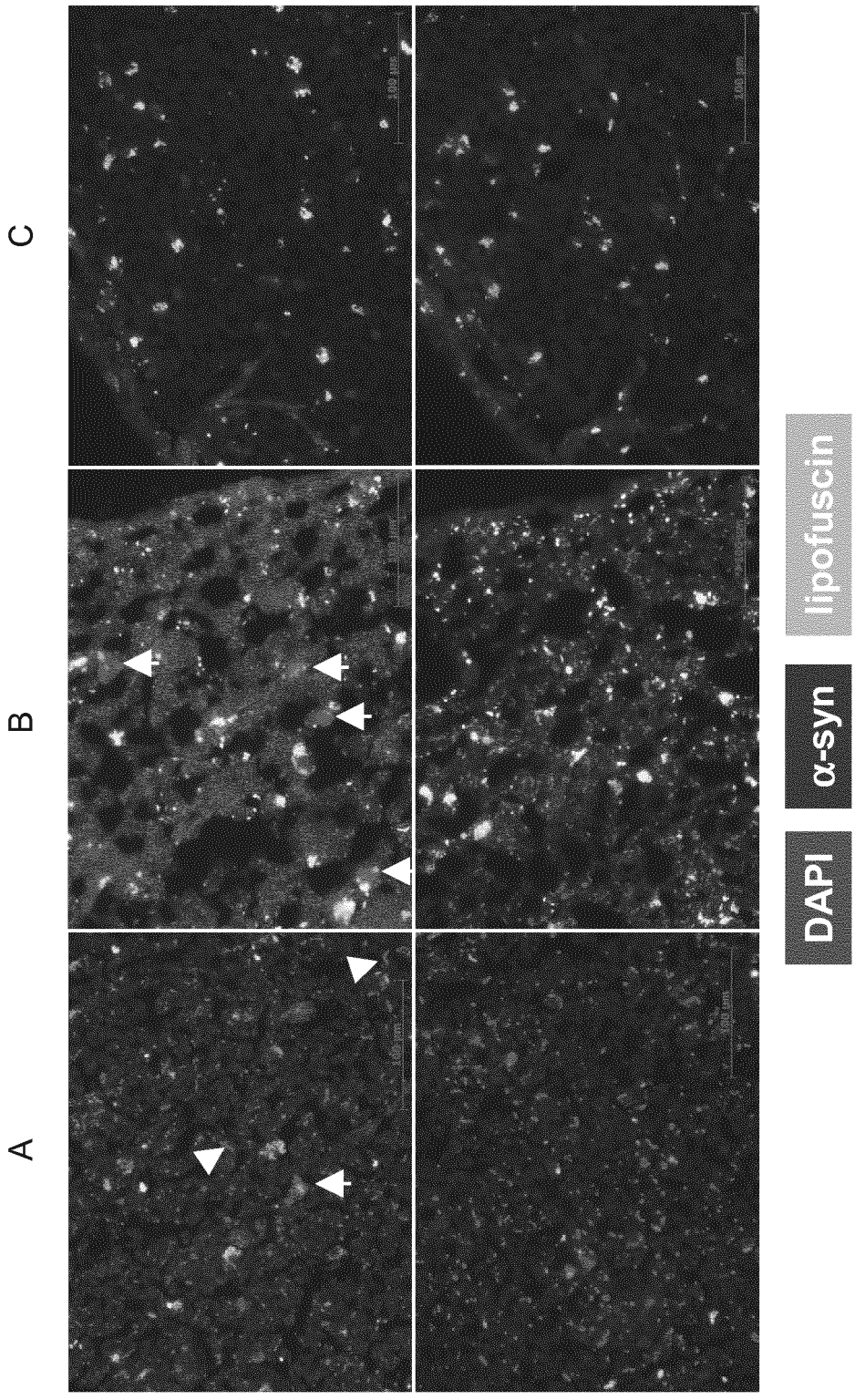


Figure 6

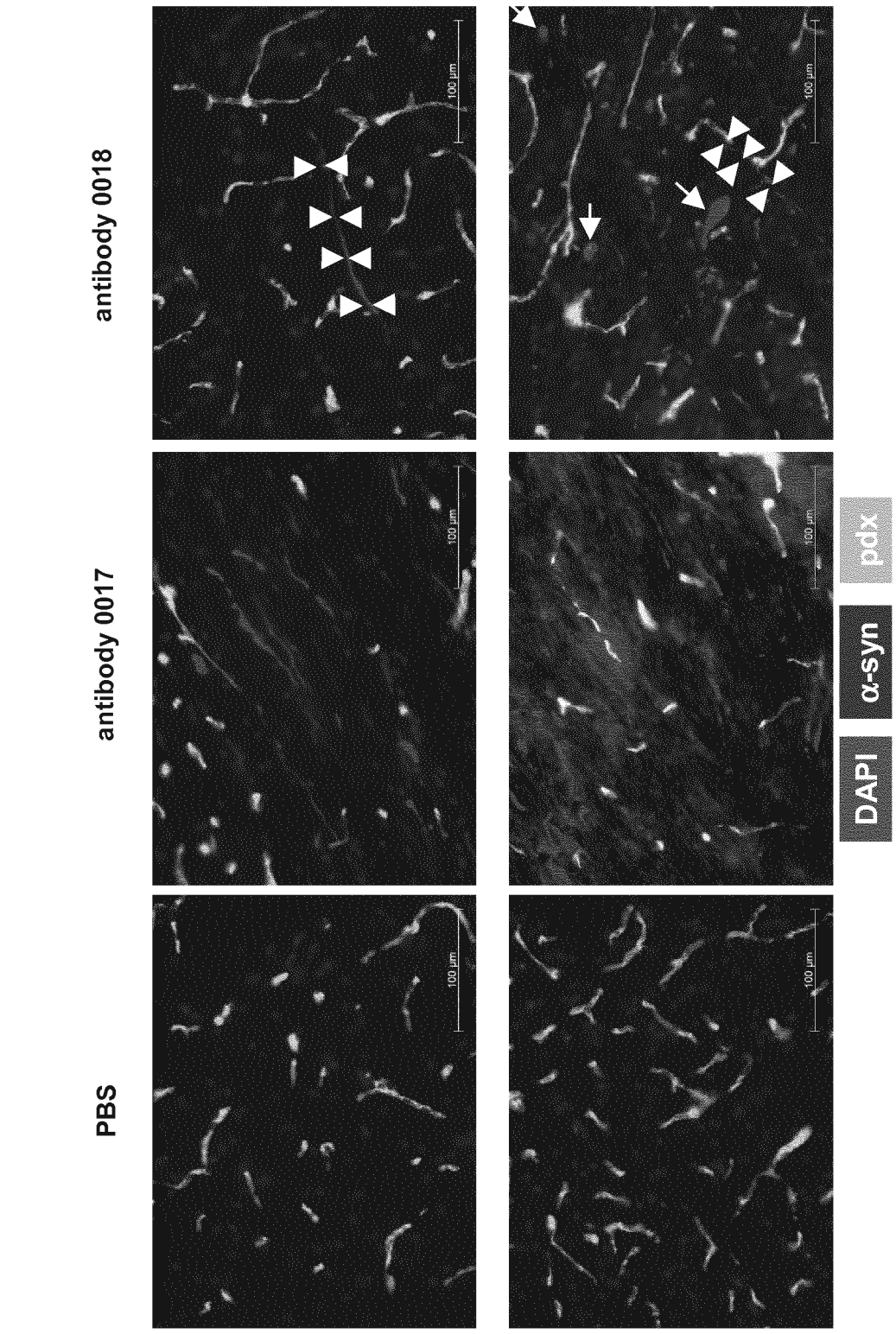
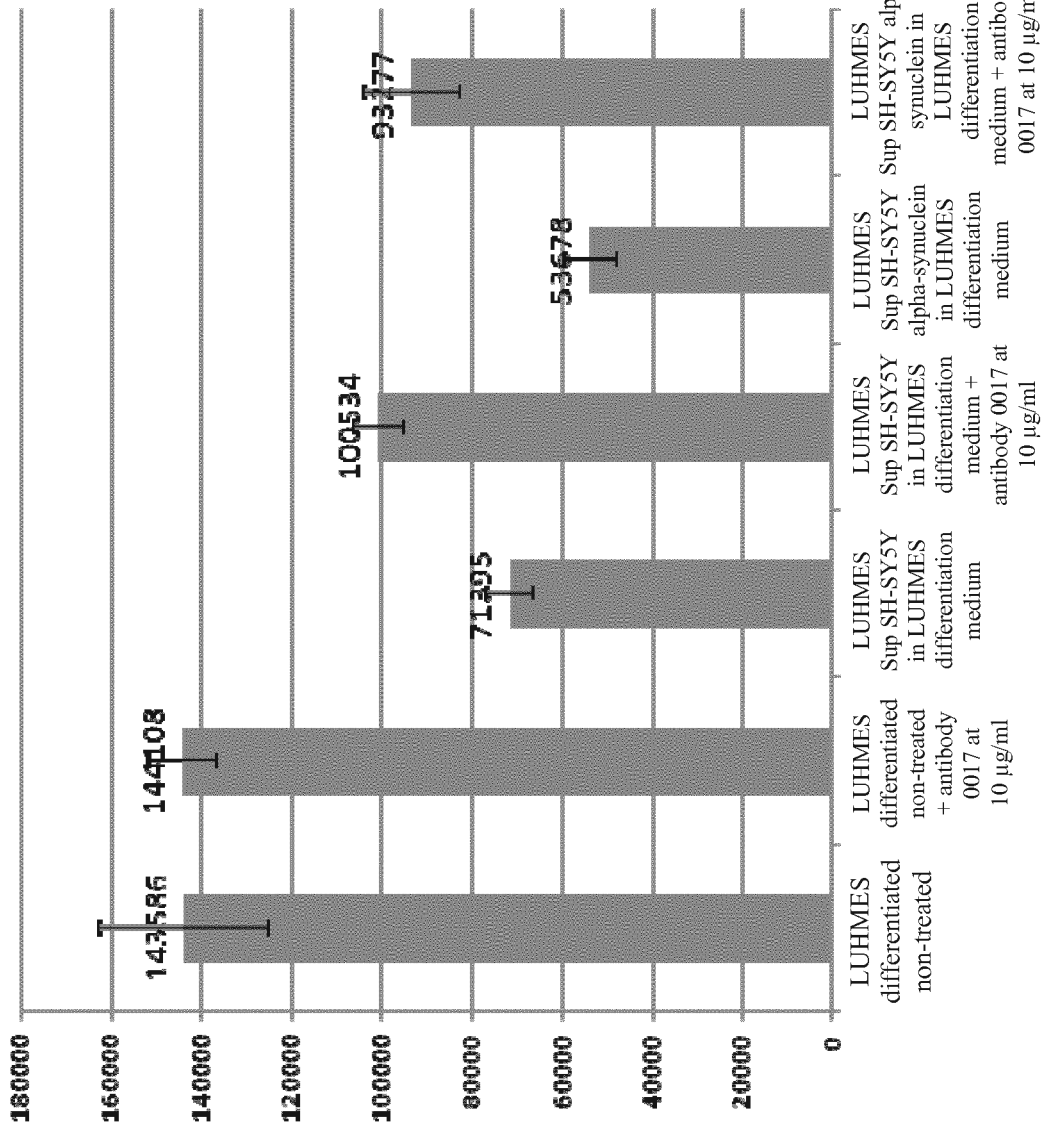
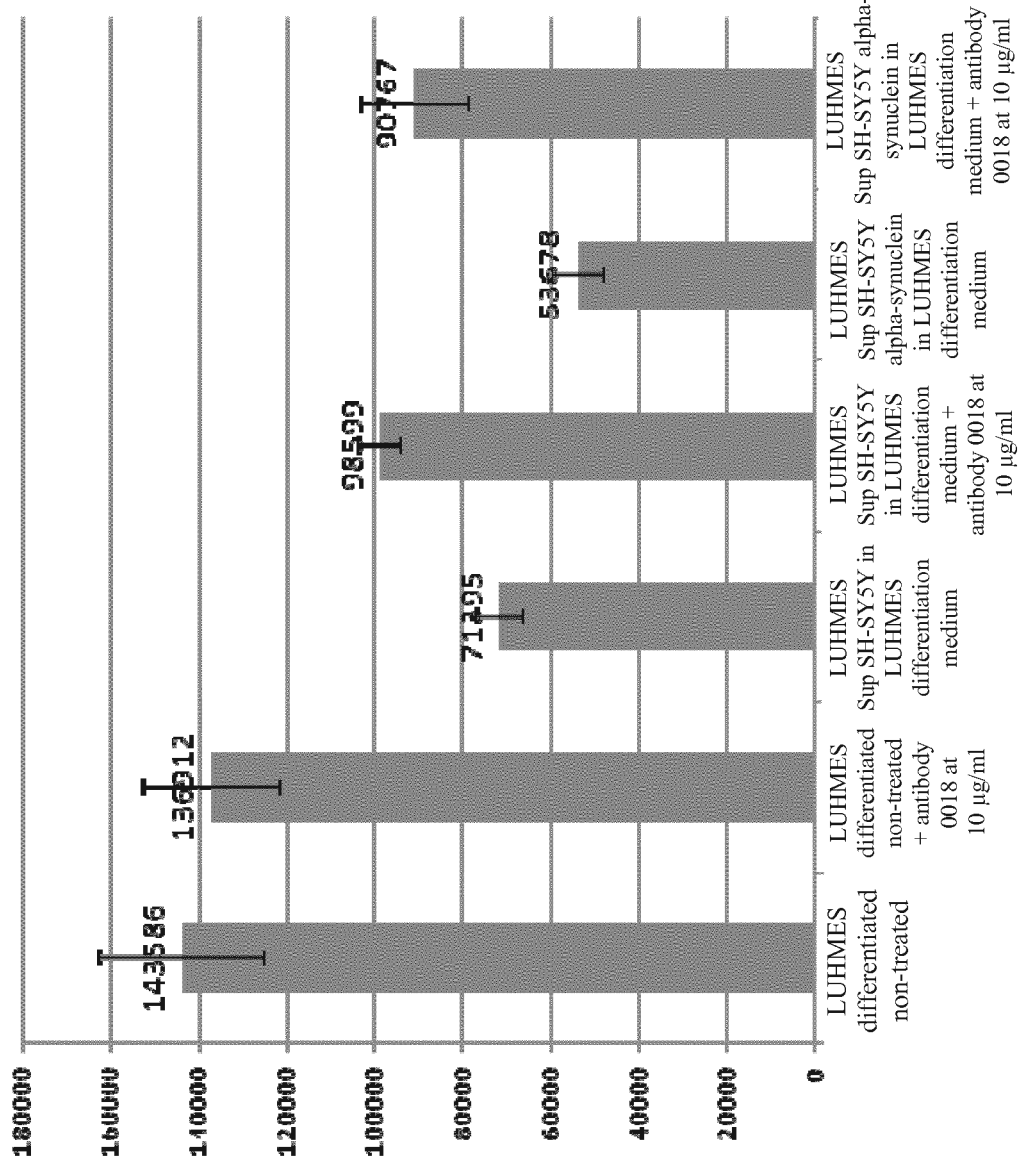

Staining done
with only anti-mo-IgG1-AF555
with respective mAb or PBS + anti-mo-IgG1-AF555
PBS
antibody 0017
antibody 0018
100 µm
DAPI
α-syn
pdx

Figure 7

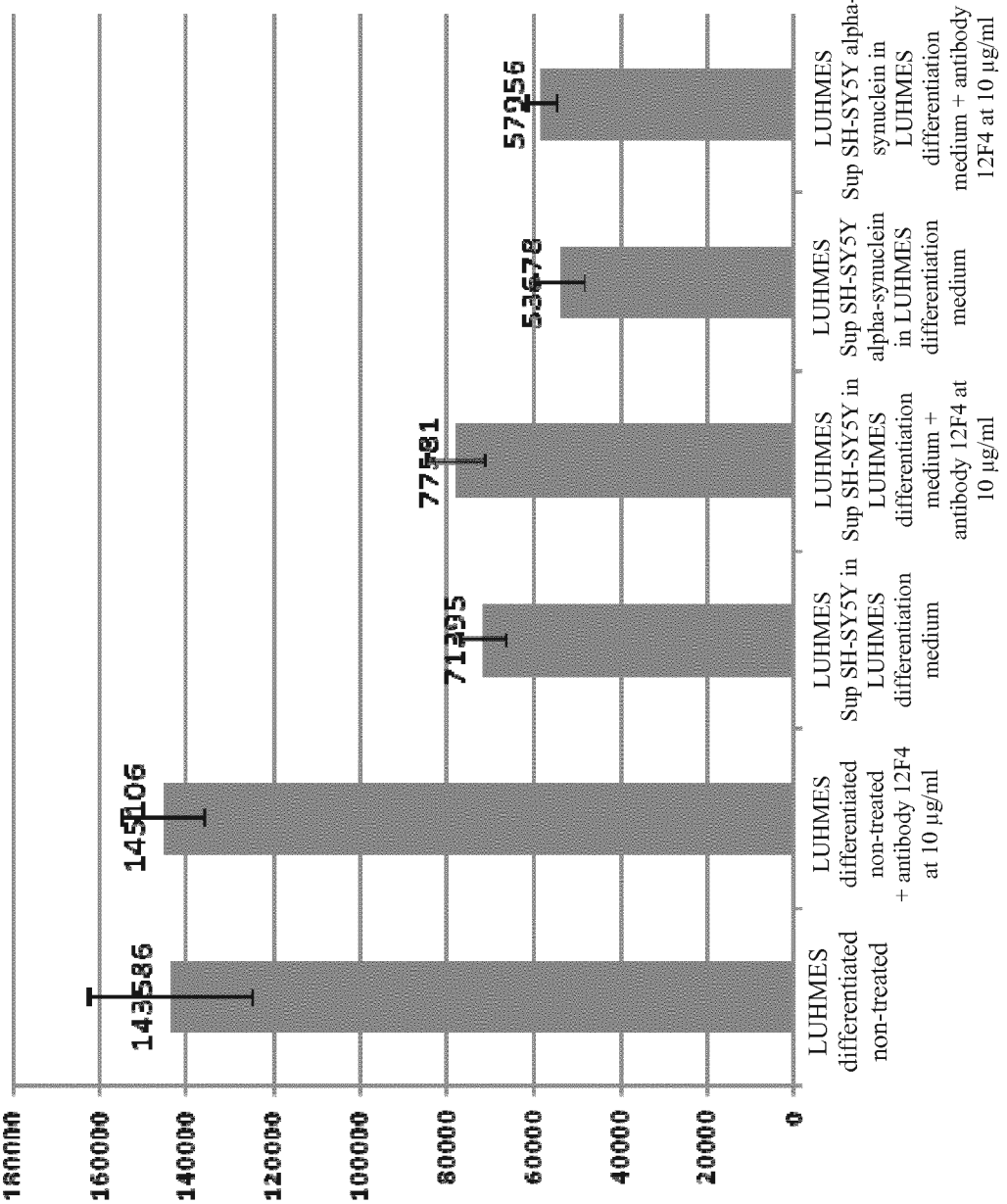
(A) antibody 0017

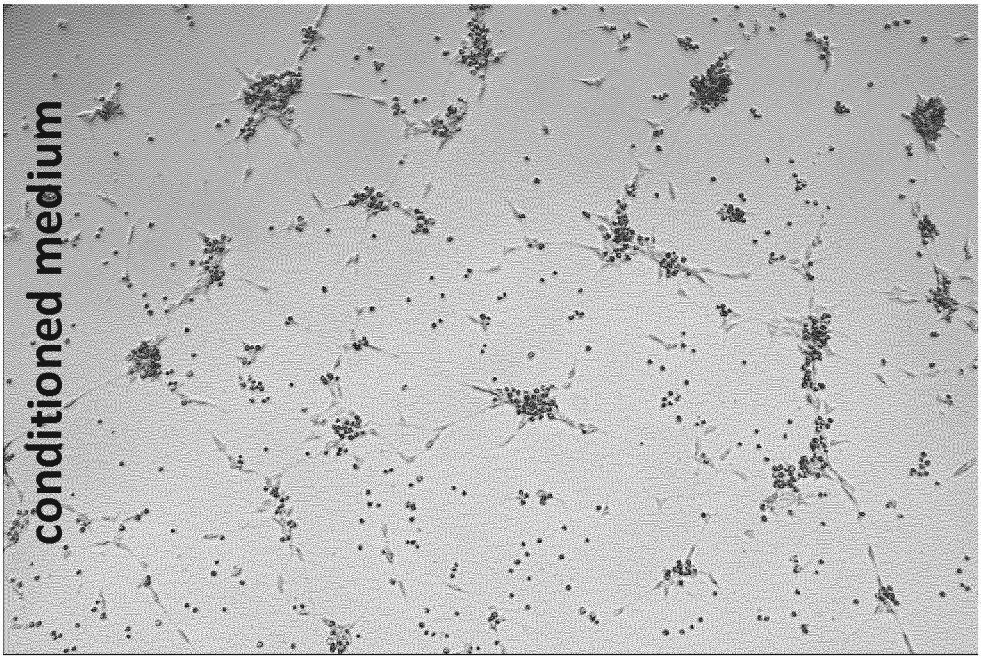


(B) antibody 0018



(C) antibody 12F4





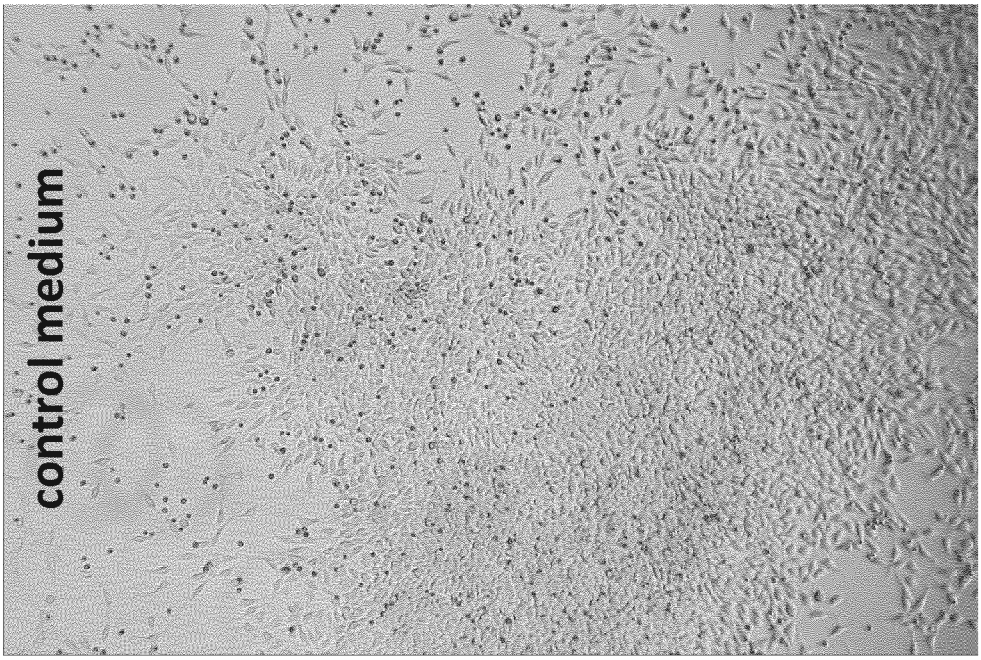


Figure 8

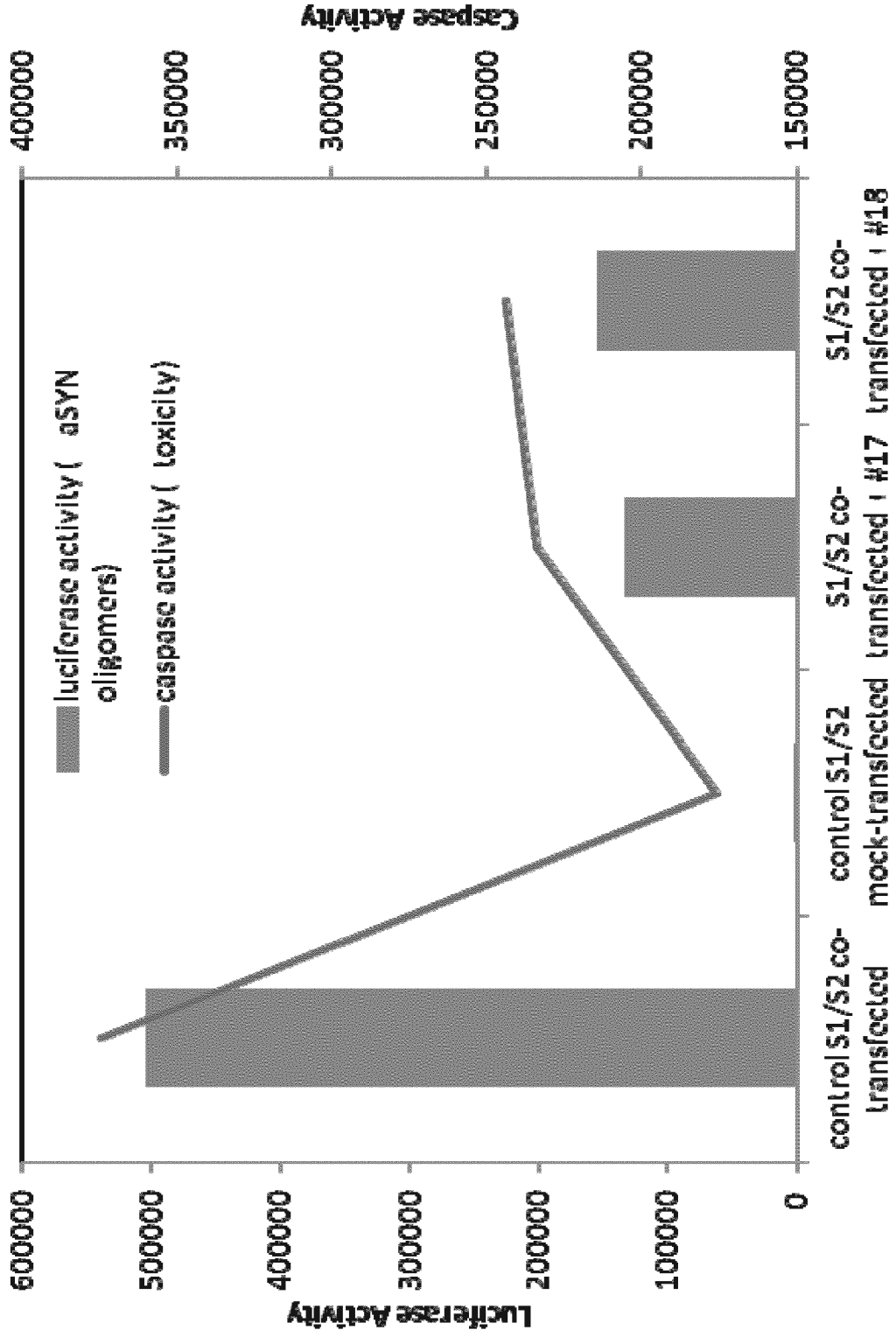

Luciferase Activity
Caspase Activity
600000
500000
400000
300000
200000
100000
0
400000
350000
300000
250000
200000
150000
luciferase activity (aSYN oligomers)
caspase activity (toxicity)
control S1/S2 co-transfected
control S1/S2 mock-transfected
S1/S2 co-transfected ı #17
S1/S2 co-transfected ı #18

Figure 9

Figure 10

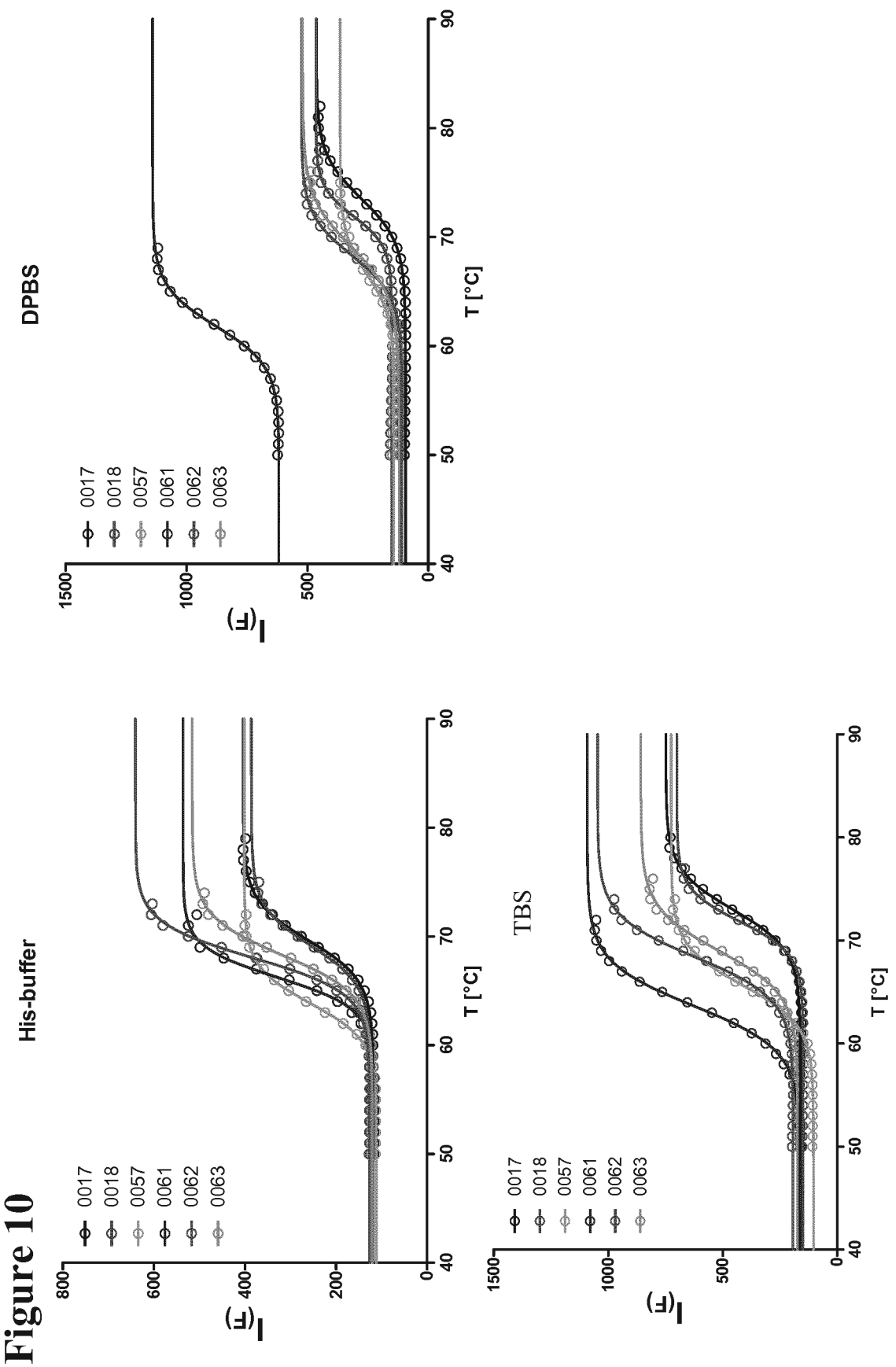
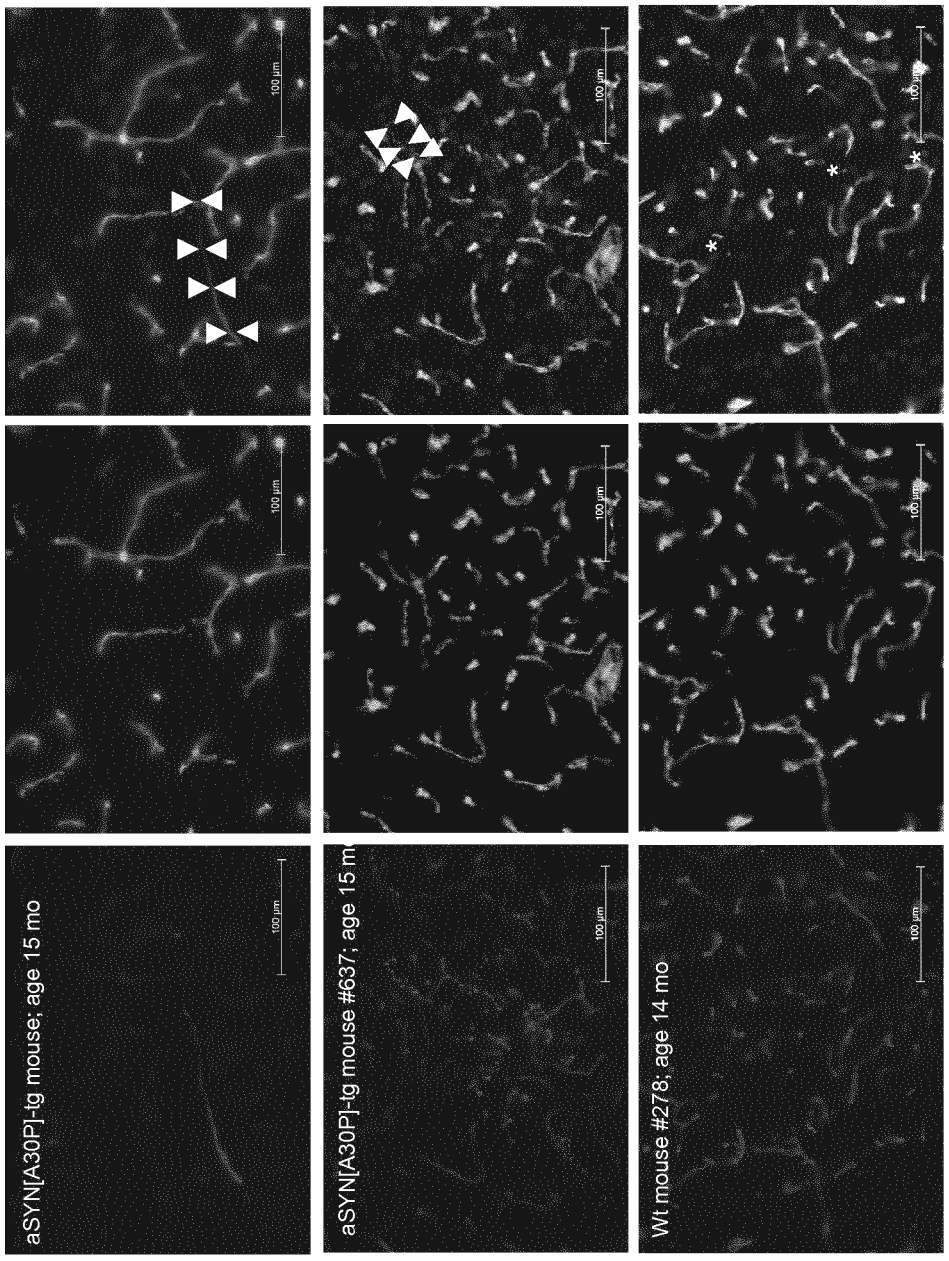


Figure 11


aSYN[A30P]-tg mouse; age 15 mo
aSYN[A30P]-tg mouse #637; age 15 m
Wt mouse #278; age 14 mo
100 µm
antibody 0018
2x60 mg/kg i.p.
brain isolated after 5d
antibody 0018-shuttle module conjugate
13.5 mg/kg i.p.
brain isolated after 2d
antibody 0018-shuttle module conjugate
13.5 mg/kg i.p.
brain isolated after 2d
DAPI
α-syn
pdx
* lipofuscin

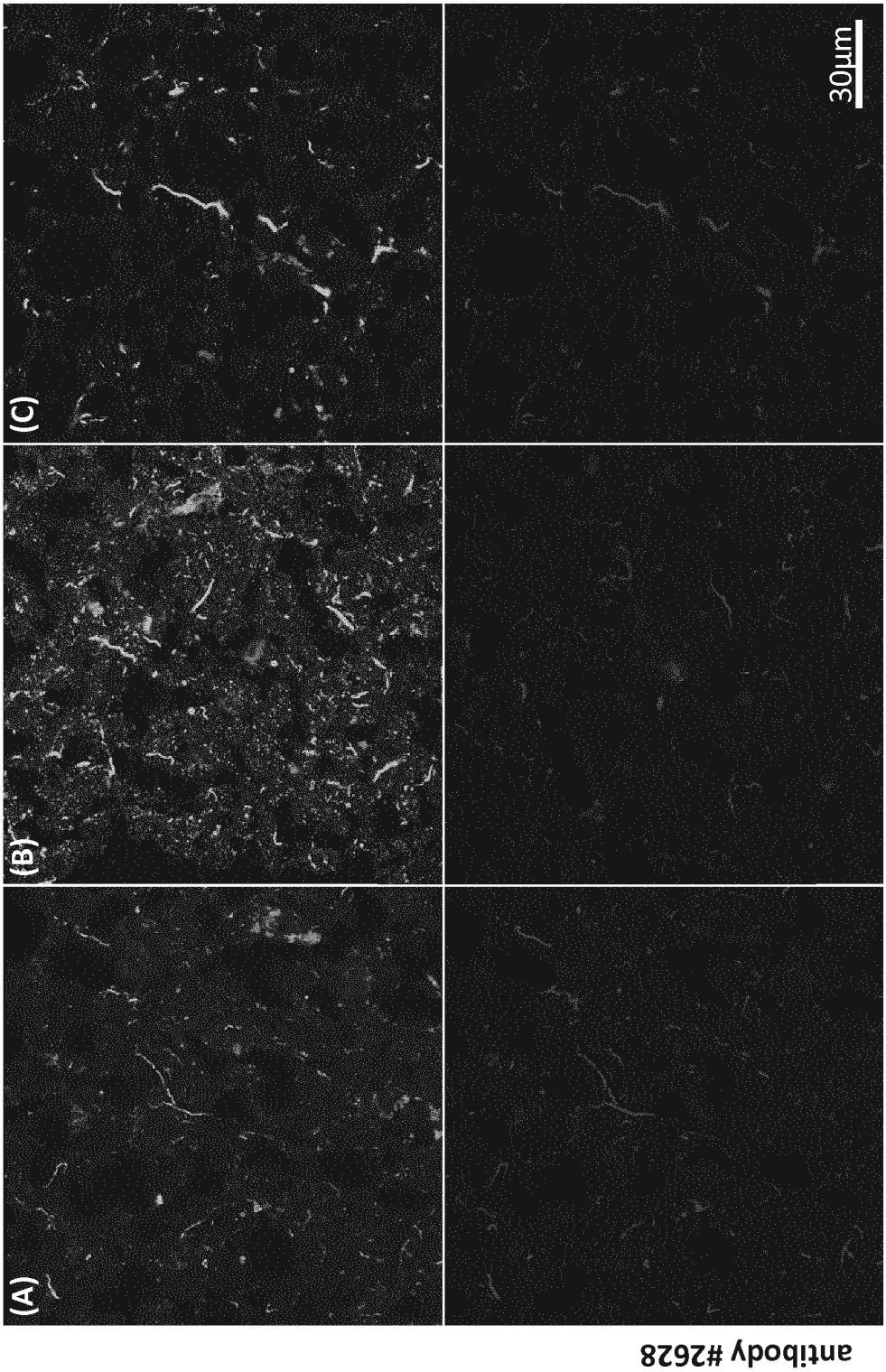
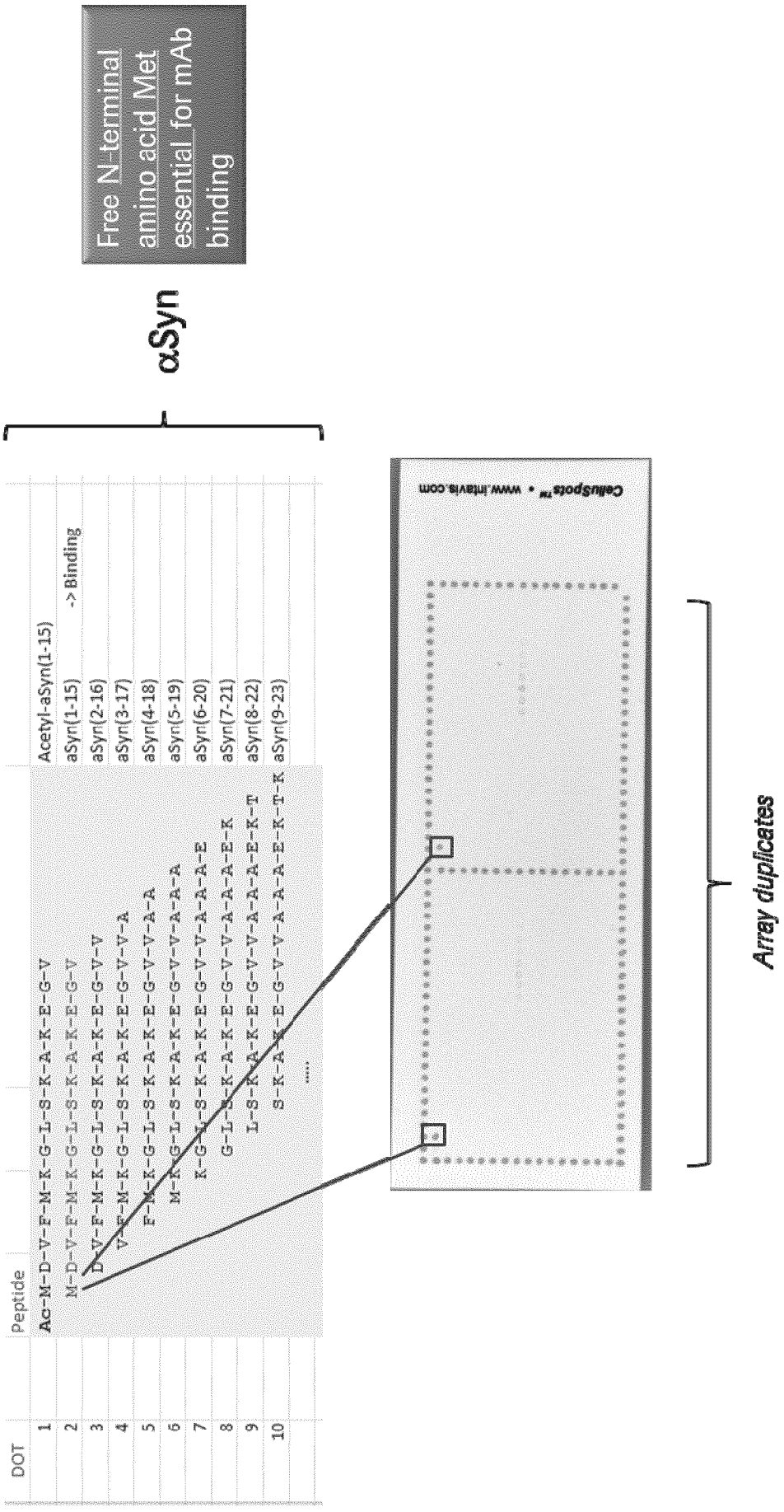


Figure 12

Figure 13


Free N-terminal amino acid Met essential for mAb binding
αSyn
DOT
Peptide
Ac-M-D-V-F-M-K-G-L-S-K-A-K-E-G-V
M-D-V-F-M-K-G-L-S-K-A-K-E-G-V
D-V-F-M-K-G-L-S-K-A-K-E-G-V-V
V-F-M-K-G-L-S-K-A-K-E-G-V-V-A
F-M-K-G-L-S-K-A-K-E-G-V-V-A-A
M-K-G-L-S-K-A-K-E-G-V-V-A-A-A
K-G-L-S-K-A-K-E-G-V-V-A-A-A-E
G-L-S-K-A-K-E-G-V-V-A-A-A-E-K
L-S-K-A-K-E-G-V-V-A-A-A-E-K-T
S-K-A-K-E-G-V-V-A-A-A-E-K-T-K
....
Acetyl-aSyn(1-15)
aSyn(1-15) -> Binding
aSyn(2-16)
aSyn(3-17)
aSyn(4-18)
aSyn(5-19)
aSyn(6-20)
aSyn(7-21)
aSyn(8-22)
aSyn(9-23)
CellulSpots™ • www.intavis.com
Array duplicates

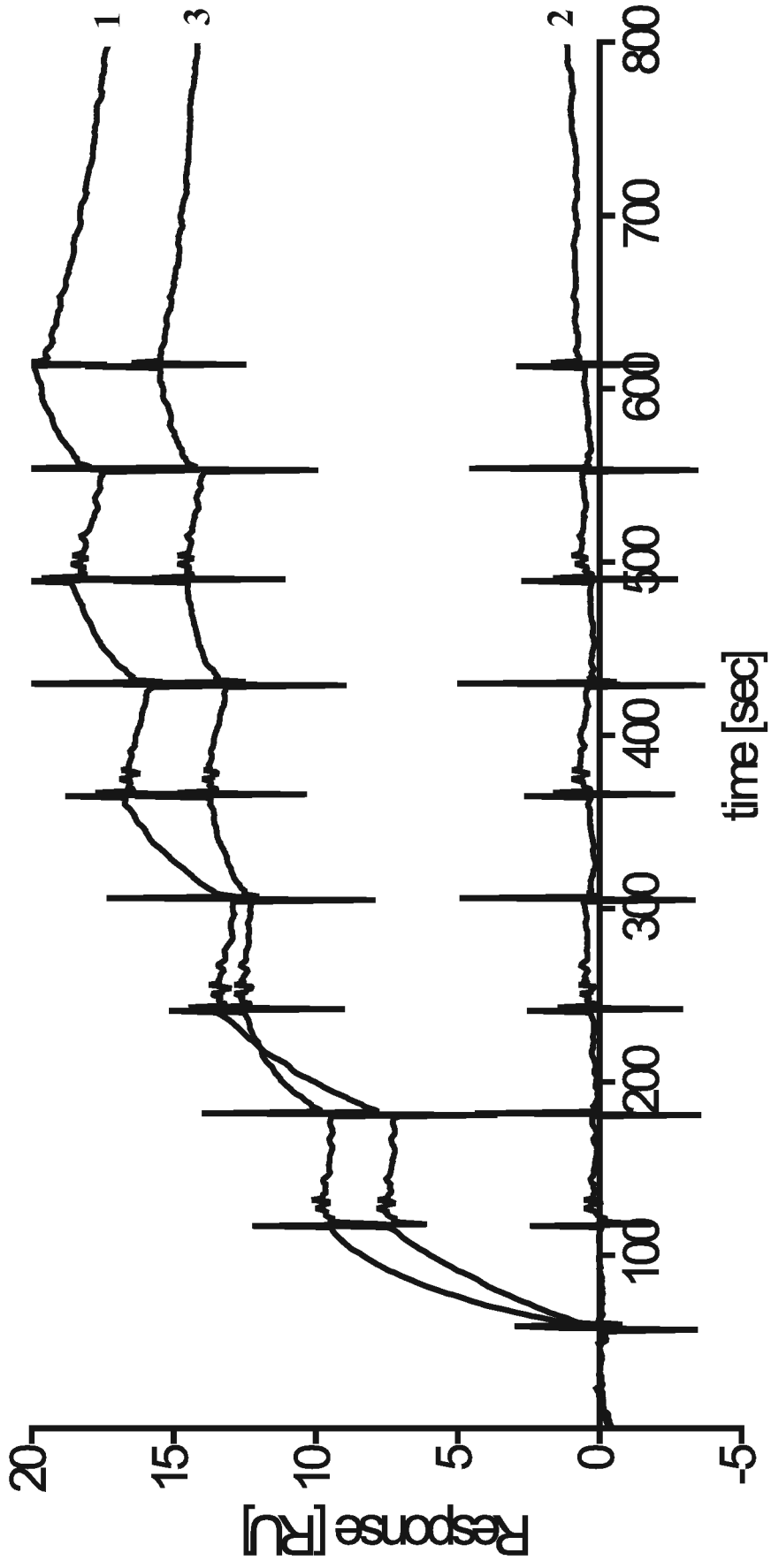

1
3
2
20
15
10
5
0
-5
Response [RU]
100
200
300
400
500
600
700
800
time [sec]

Figure 14