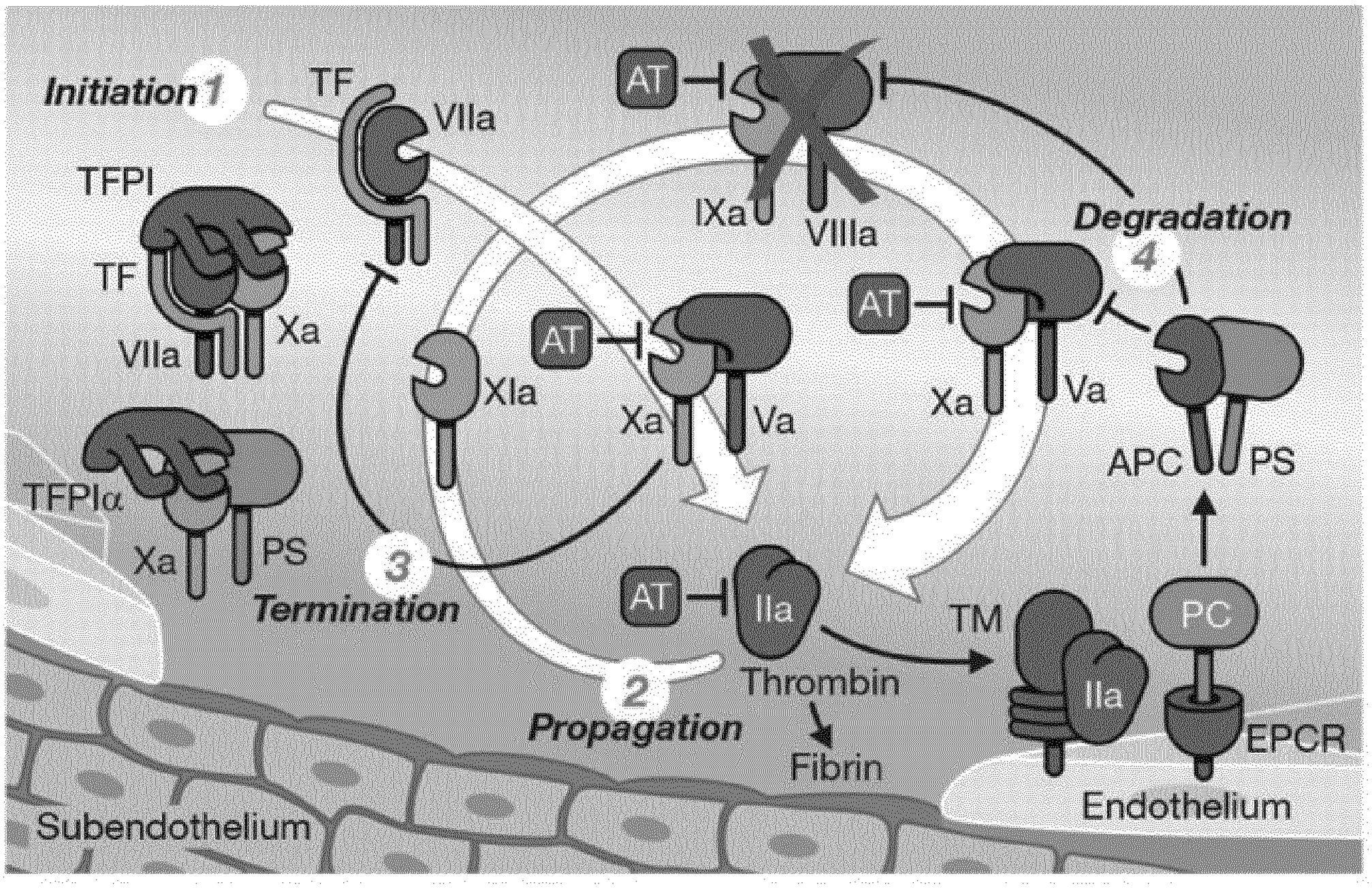
Fig.1

A


Initiation 1
TF
VIIa
TFPI
TF
VIIa
Xa
AT
IXa
VIIIa
Degradation
4
AT
Xa
Va
APC
PS
XIa
AT
Xa
Va
TFPIα
Xa
PS
3
Termination
AT
IIa
Thrombin
TM
PC
IIa
EPCR
2
Propagation
Fibrin
Endothelium
Subendothelium

B

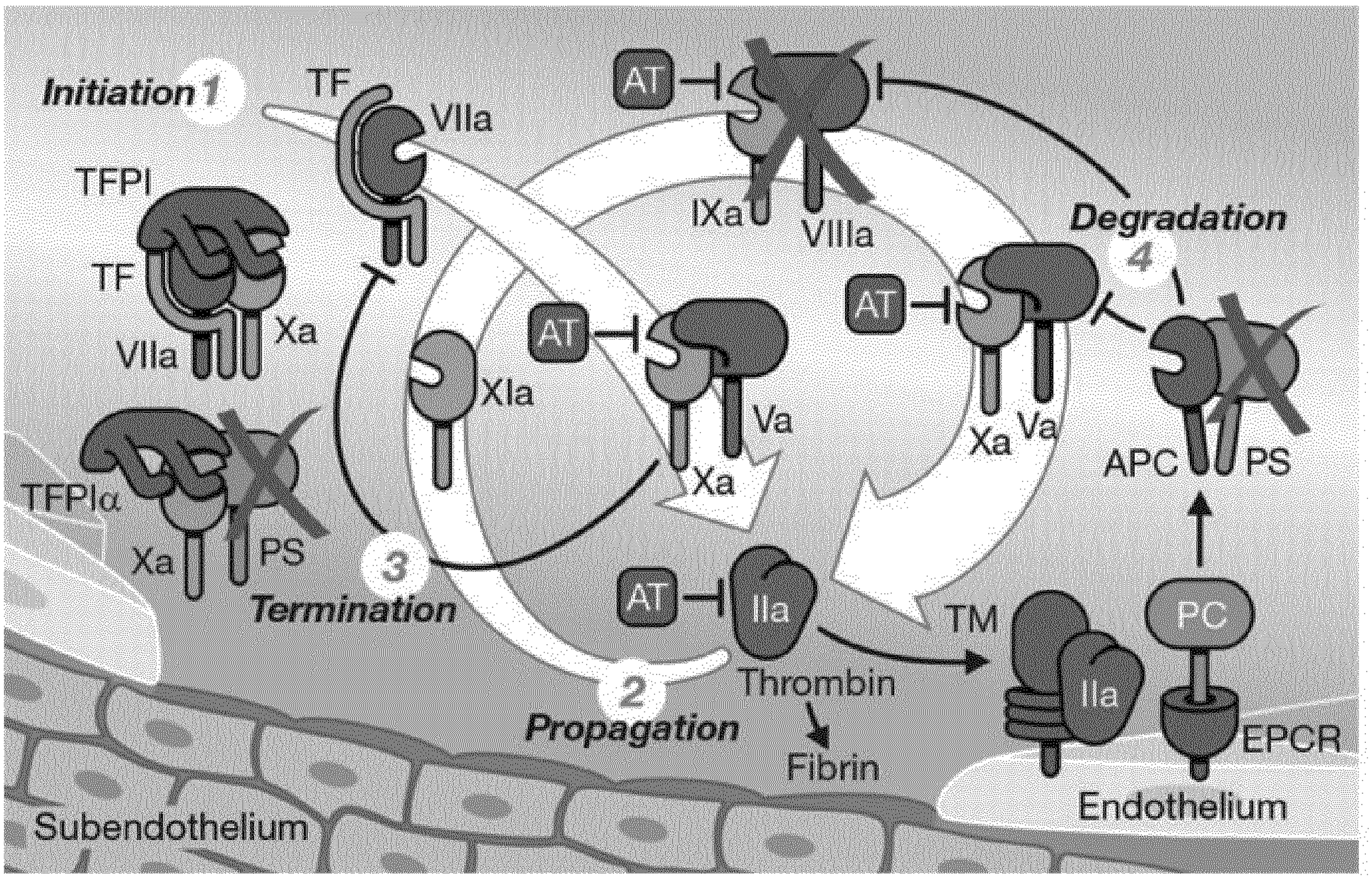

Initiation 1
TF
VIIa
TFPI
TF
VIIa
Xa
AT
IXa
VIIIa
Degradation
4
AT
Xa
Va
APC
PS
XIa
AT
Xa
Va
TFPIα
Xa
PS
3
Termination
AT
IIa
Thrombin
TM
PC
IIa
EPCR
2
Propagation
Fibrin
Endothelium
Subendothelium

Fig.1 (continued)

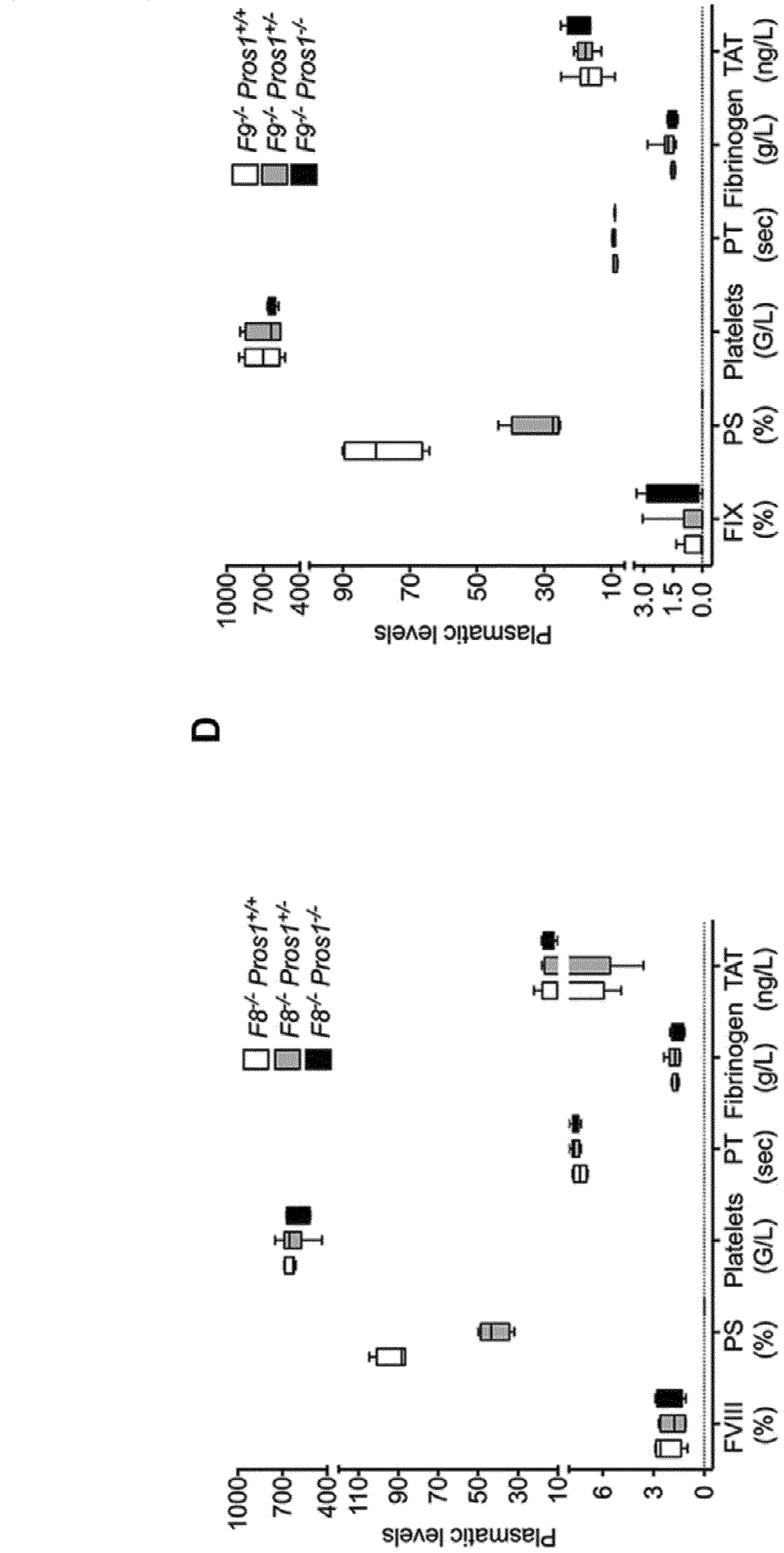


Fig.1 (continued)

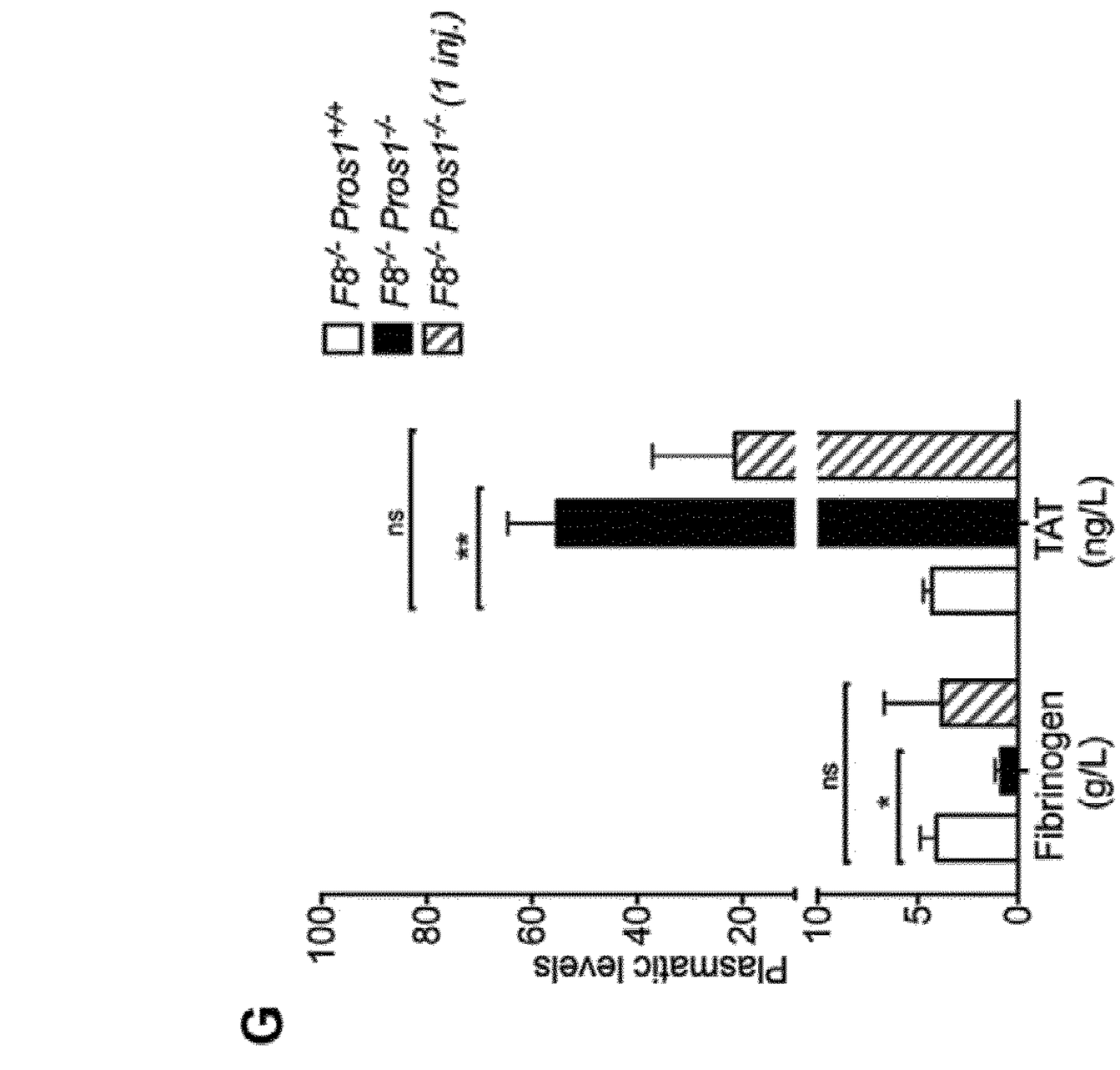


Fig.2

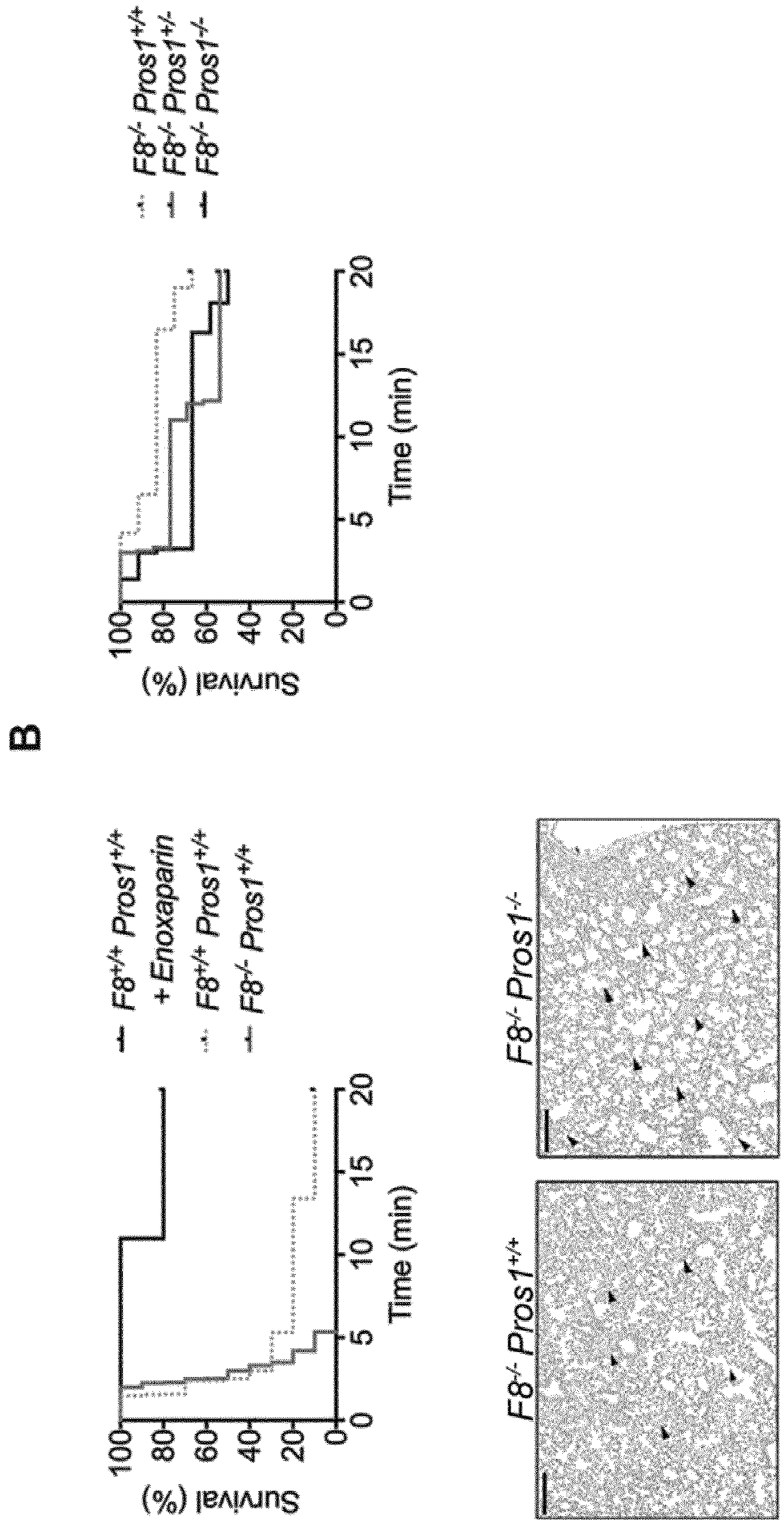

A
B
C
F8+/+ Pros1+/+
+ Enoxaparin
F8-/- Pros1+/+
F8+/+ Pros1+/+
F8-/- Pros1+/+
Survival (%)
Time (min)
0
5
10
15
20
40
60
80
100
F8-/- Pros1+/+
F8-/- Pros1-/-

Fig.2 (continued)

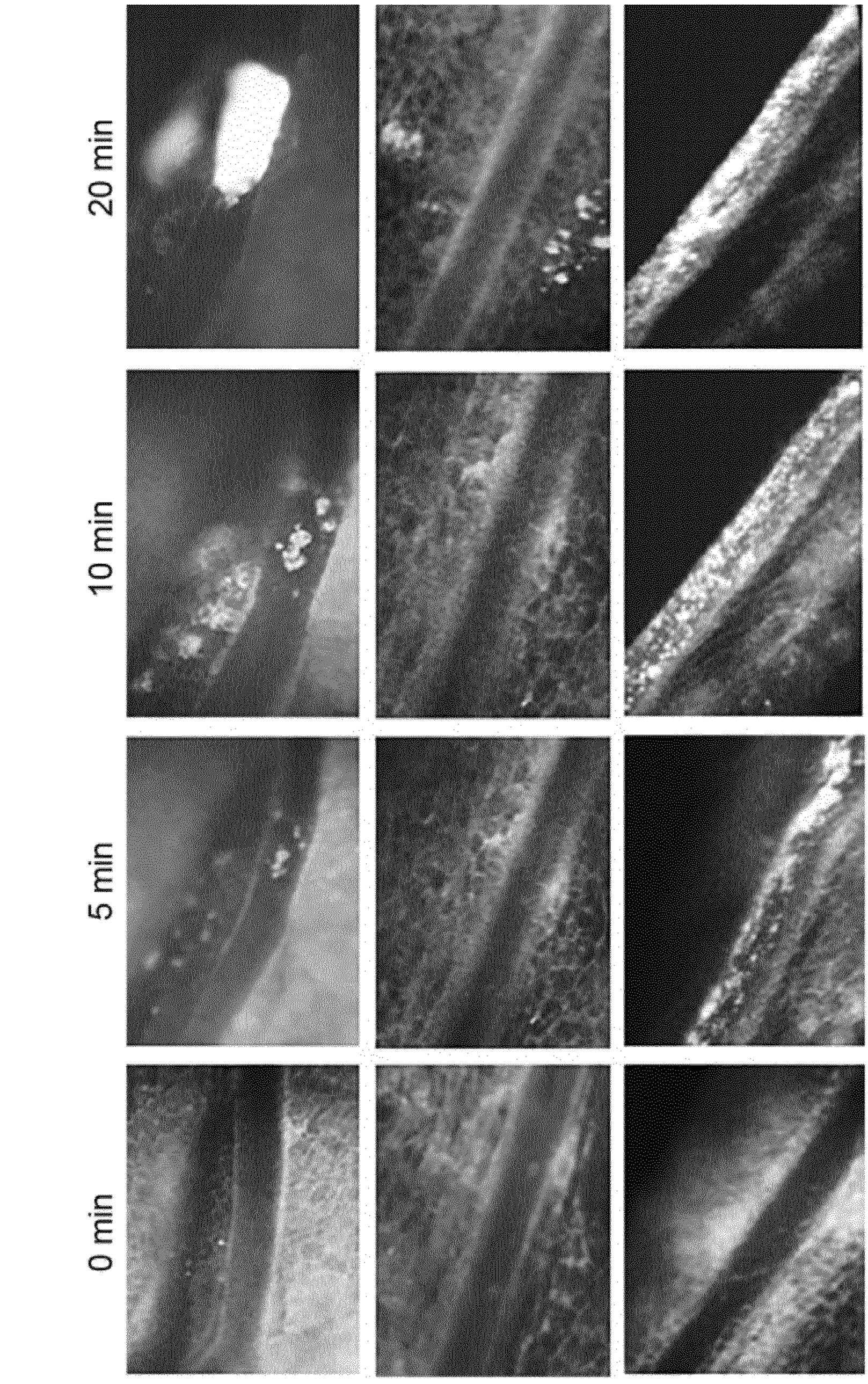
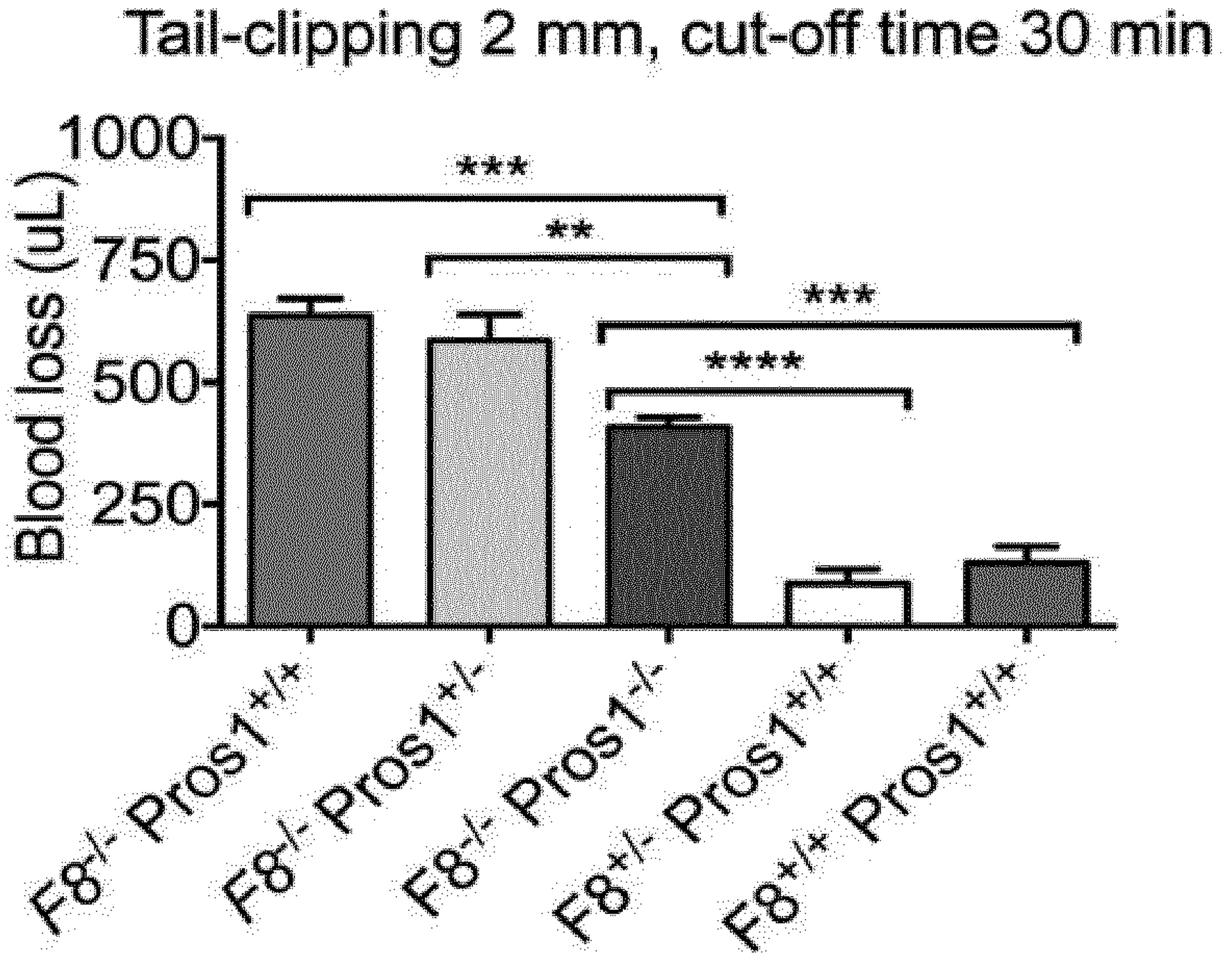
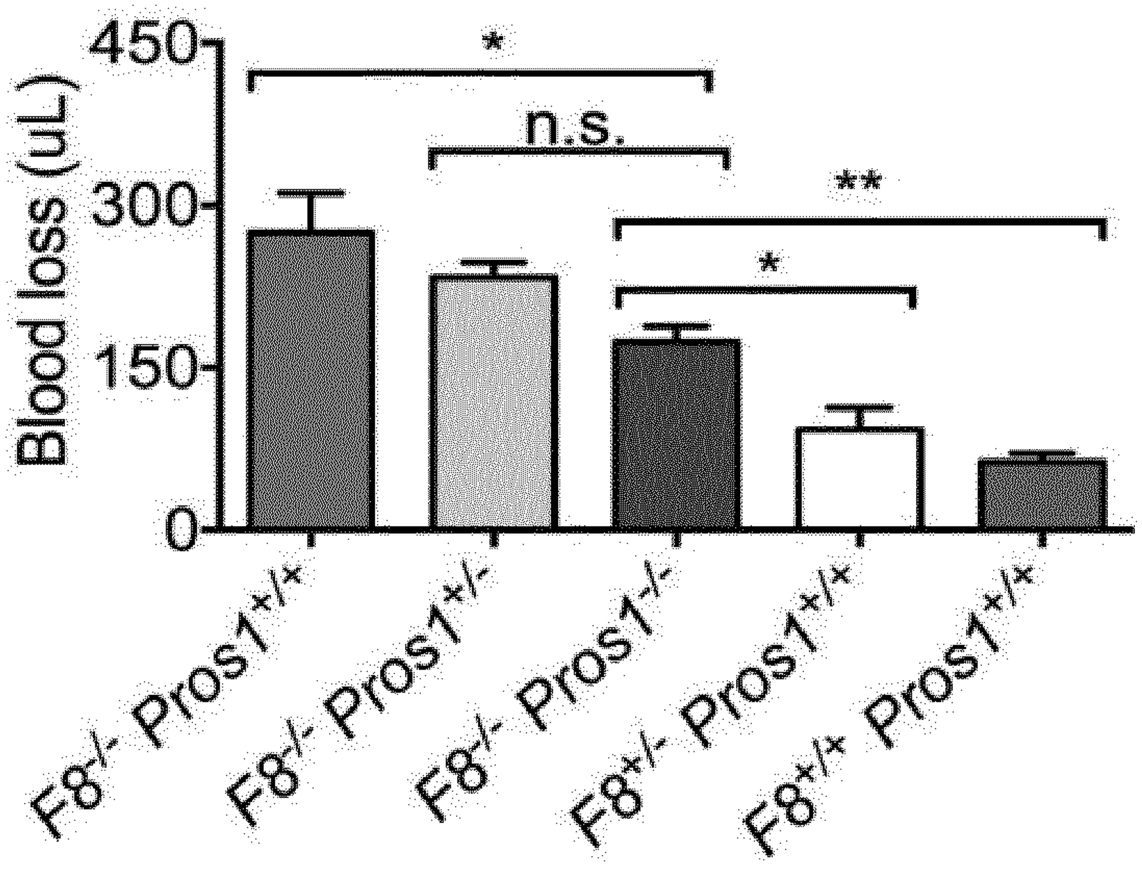


Fig.3

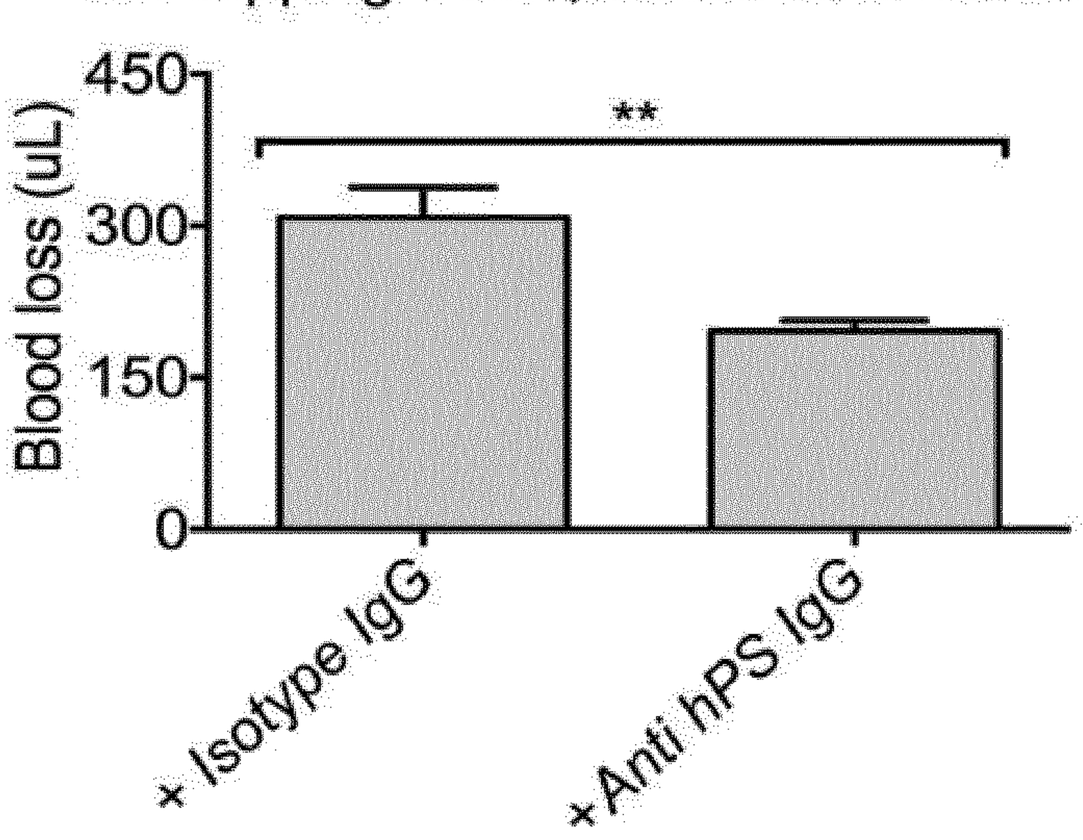
A

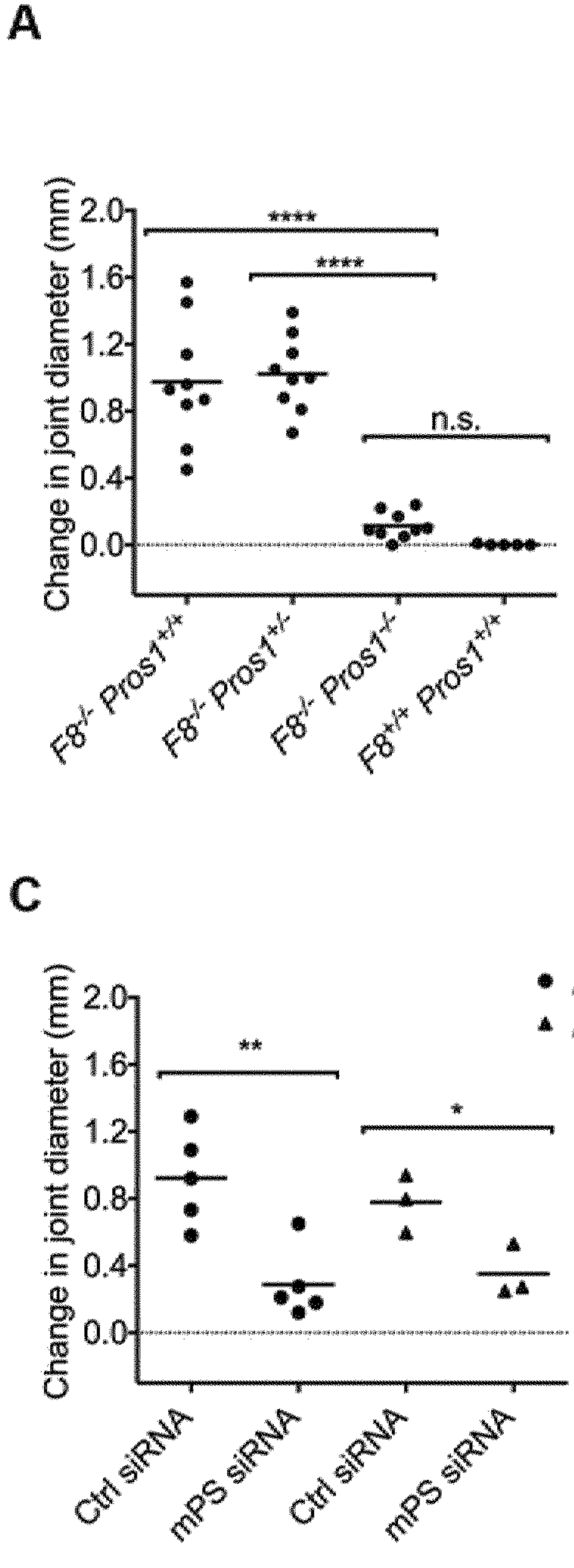

Tail-clipping 2 mm, cut-off time 30 min
Blood loss (uL)
1000
750
500
250
0
***
**
***
****
F8-/- Pros1+/+
F8-/- Pros1+/-
F8-/- Pros1-/-
F8+/- Pros1+/+
F8+/+ Pros1+/+

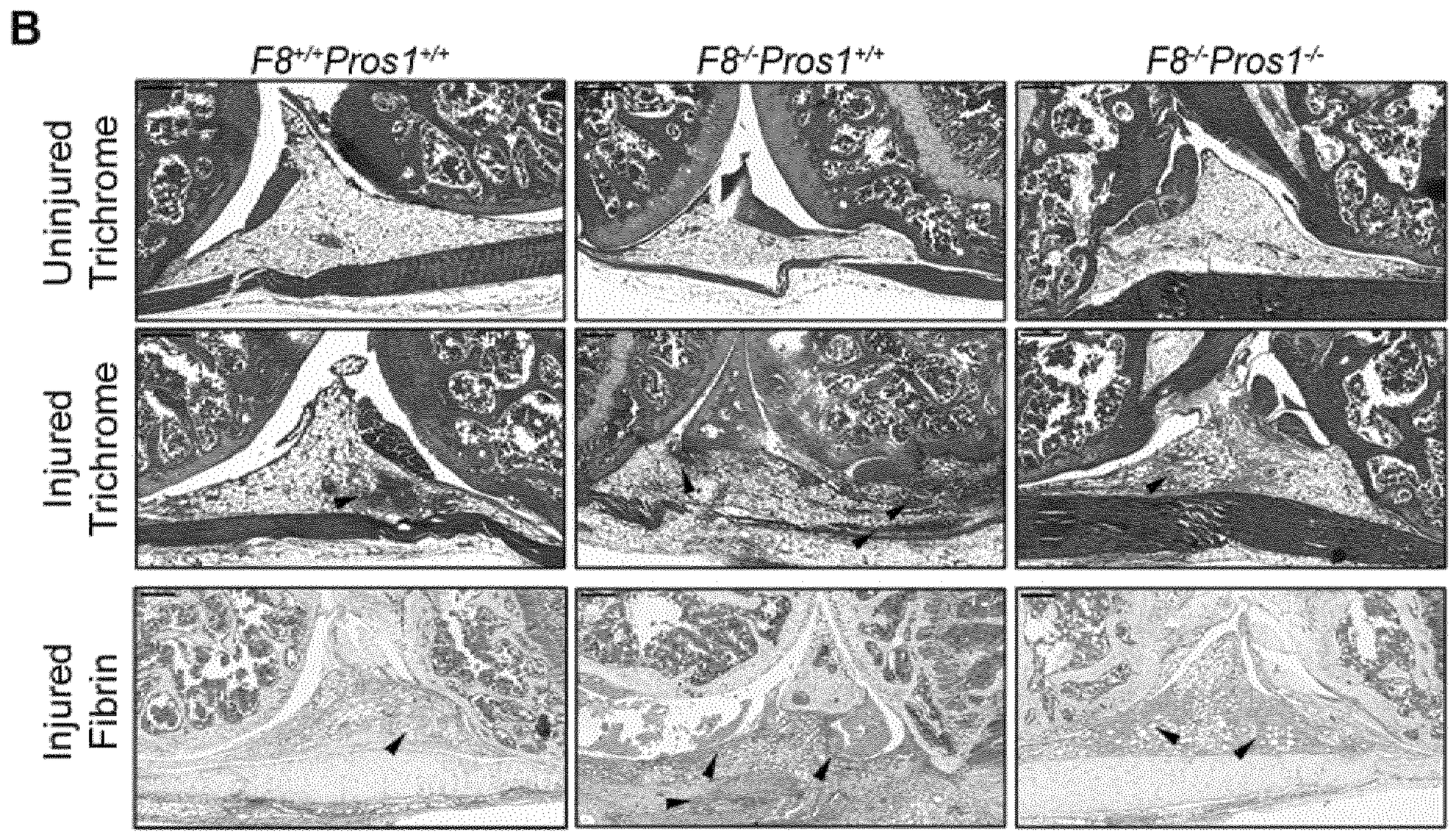
B


Tail-clipping 4 mm, cut-off time 10 min
Blood loss (uL)
450
300
150
0
*
n.s.
**
*
F8-/- Pros1+/+
F8-/- Pros1+/-
F8-/- Pros1-/-
F8+/- Pros1+/+
F8+/+ Pros1+/+

C


Tail-clipping 4 mm, cut-off time 10 min
Blood loss (uL)
450
300
150
0
**
+ Isotype IgG
+ Anti hPS IgG


A
Change in joint diameter (mm)
2.0
1.6
1.2
0.8
0.4
0.0
****
****
n.s.
F8-/- Pros1+/+
F8-/- Pros1+/-
F8-/- Pros1-/-
F8+/+ Pros1+/+


B
F8+/+Pros1+/+
F8-/-Pros1+/+
F8-/-Pros1-/-
Uninjured Trichrome
Injured Trichrome
Injured Fibrin

C
F8-/- Pros1+/-
F8-/- Pros1+/+
Change in joint diameter (mm)
2.0
1.6
1.2
0.8
0.4
0.0
**
*
Ctrl siRNA
mPS siRNA
Ctrl siRNA
mPS siRNA

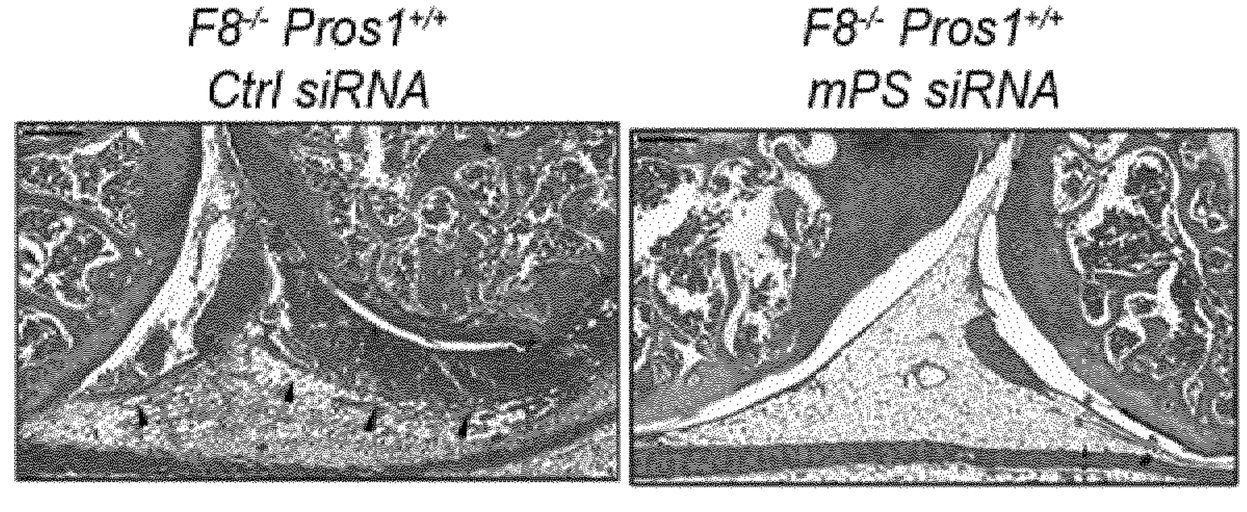
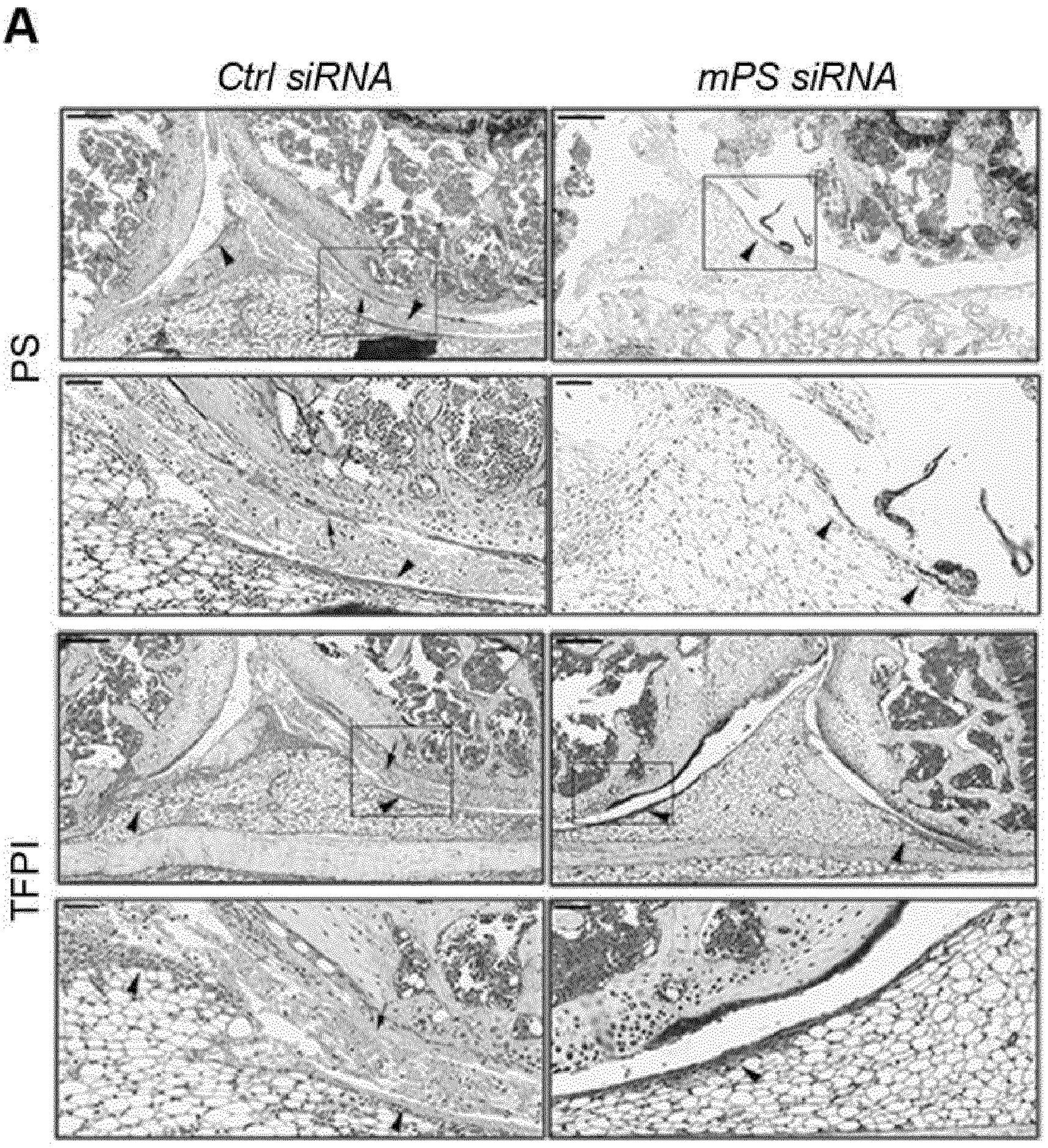

D
F8-/- Pros1+/+
Ctrl siRNA
F8-/- Pros1+/+
mPS siRNA

Fig.4

Fig.5



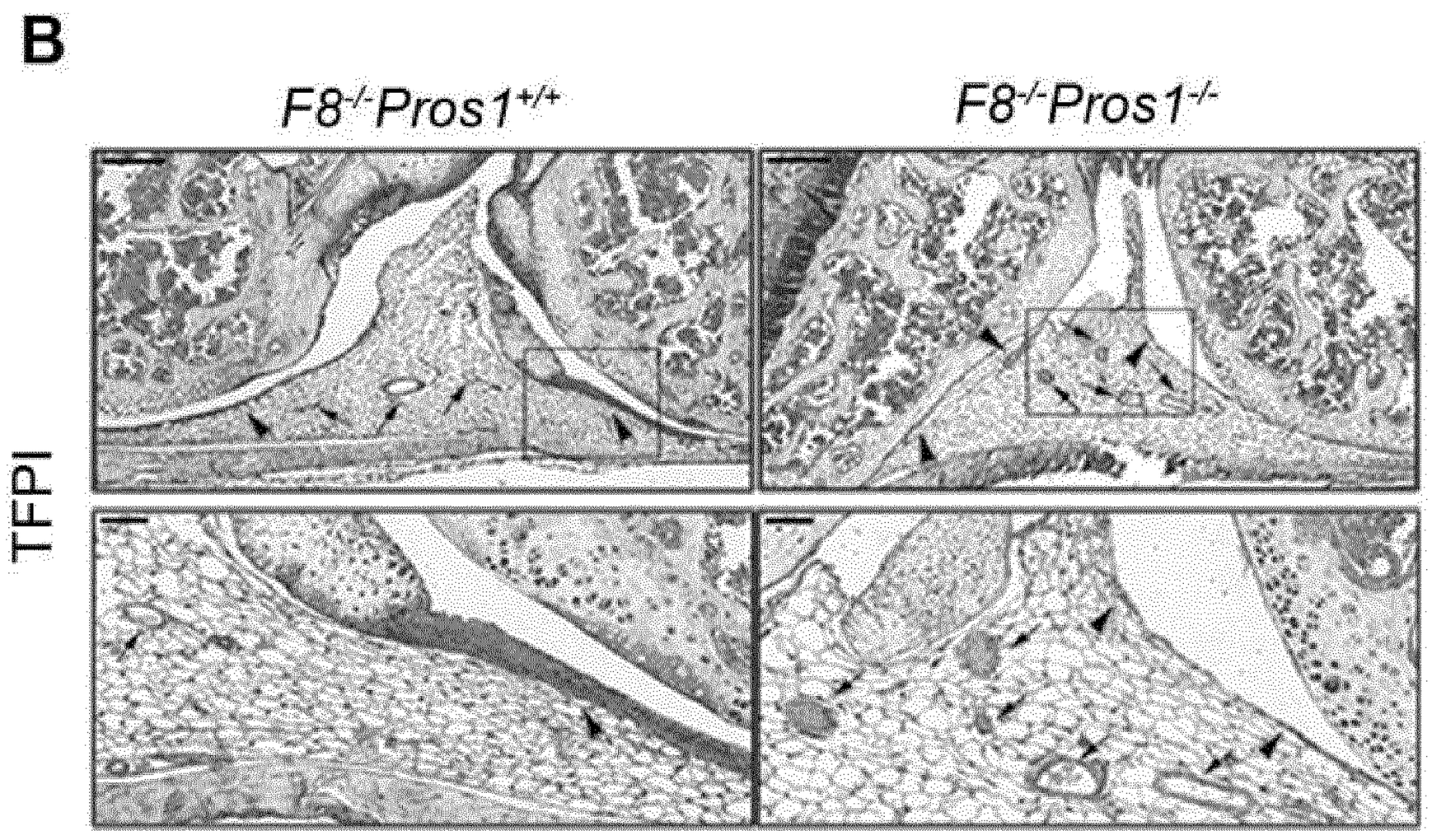
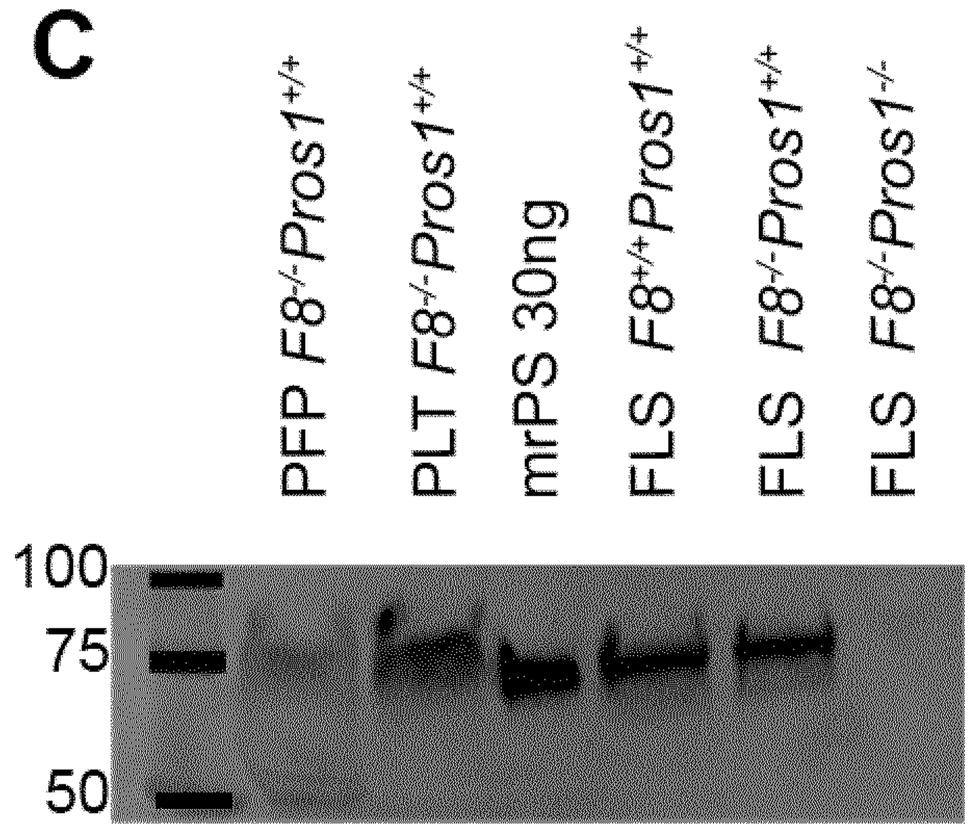
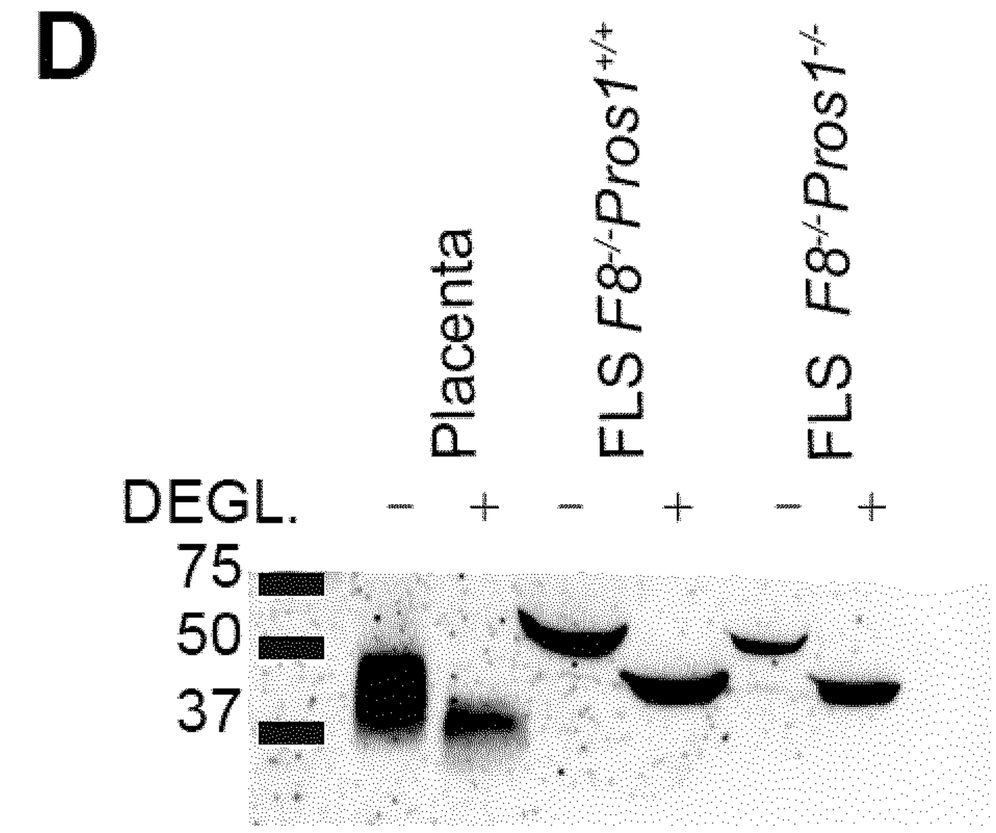
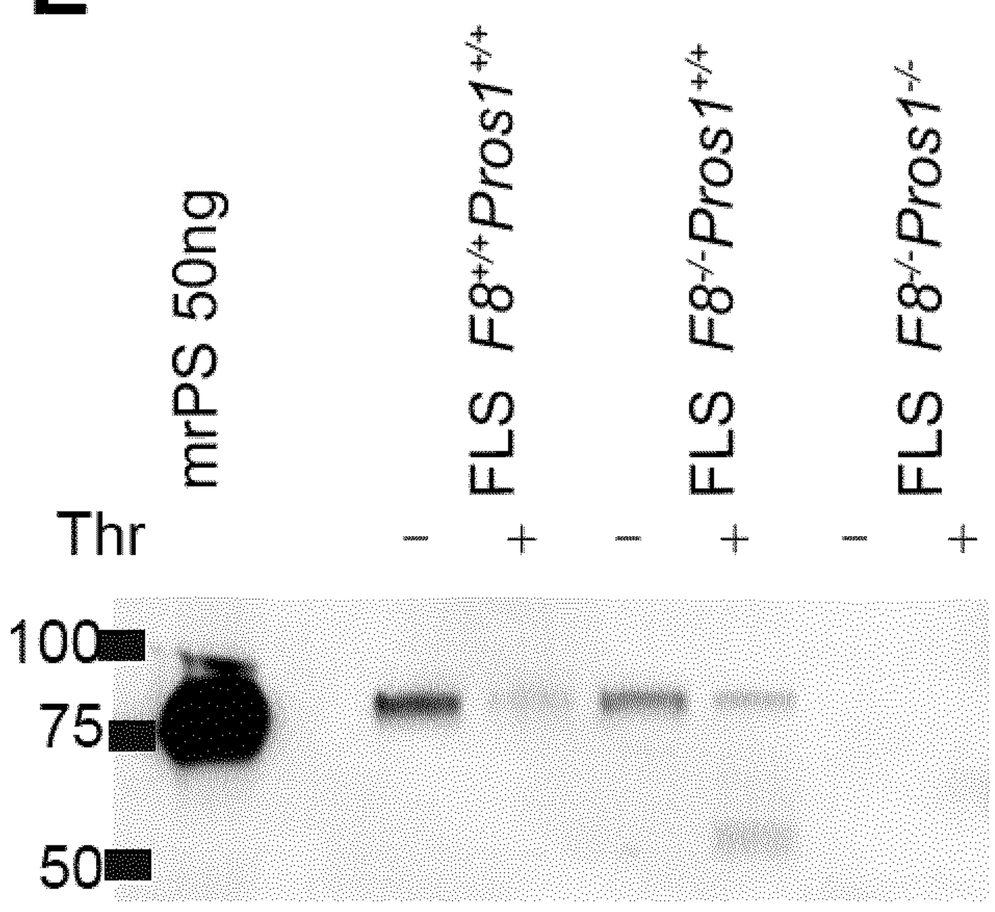


Fig.5 (continued)







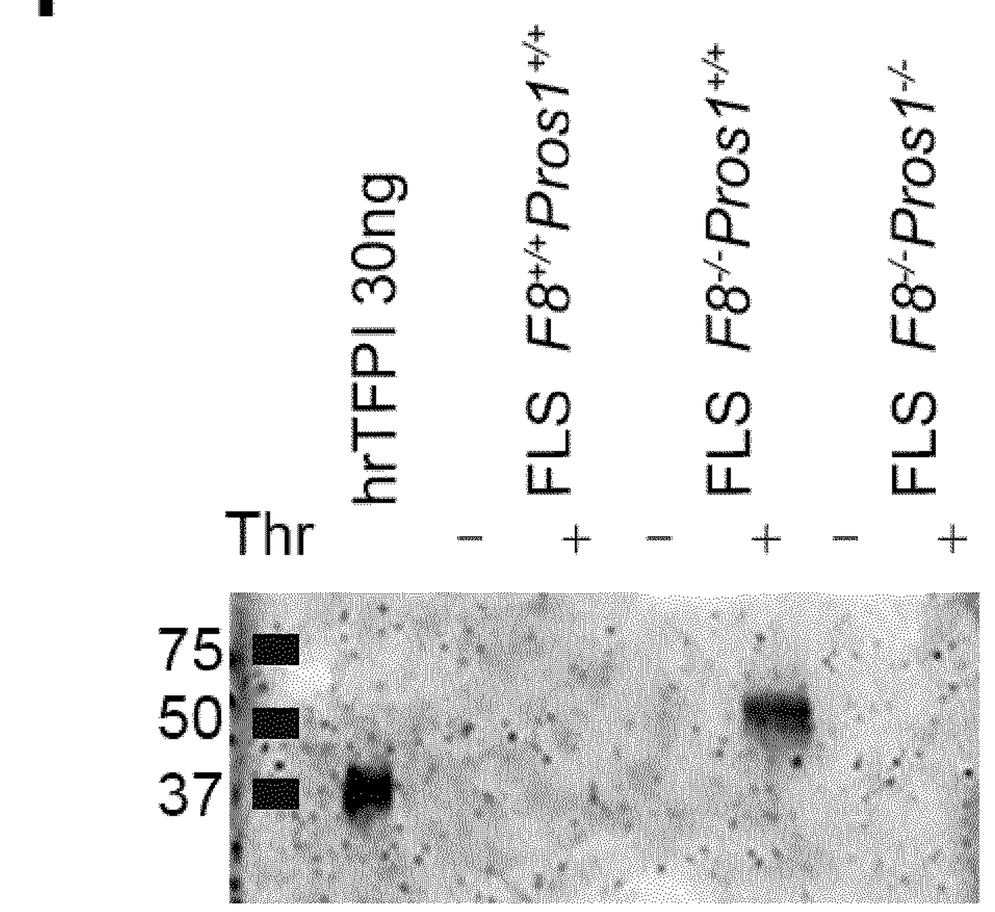
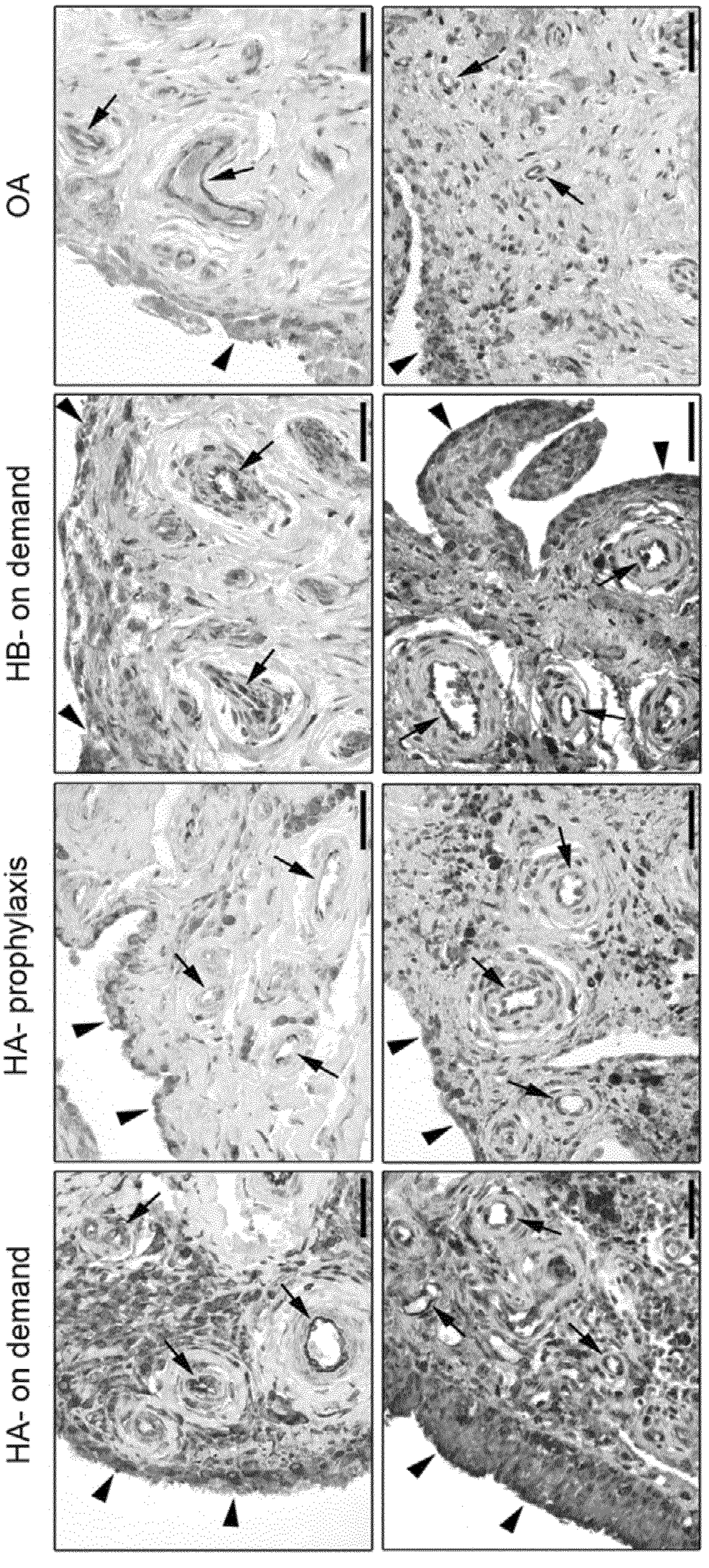


Fig.6



A

Fig.6 (continued)

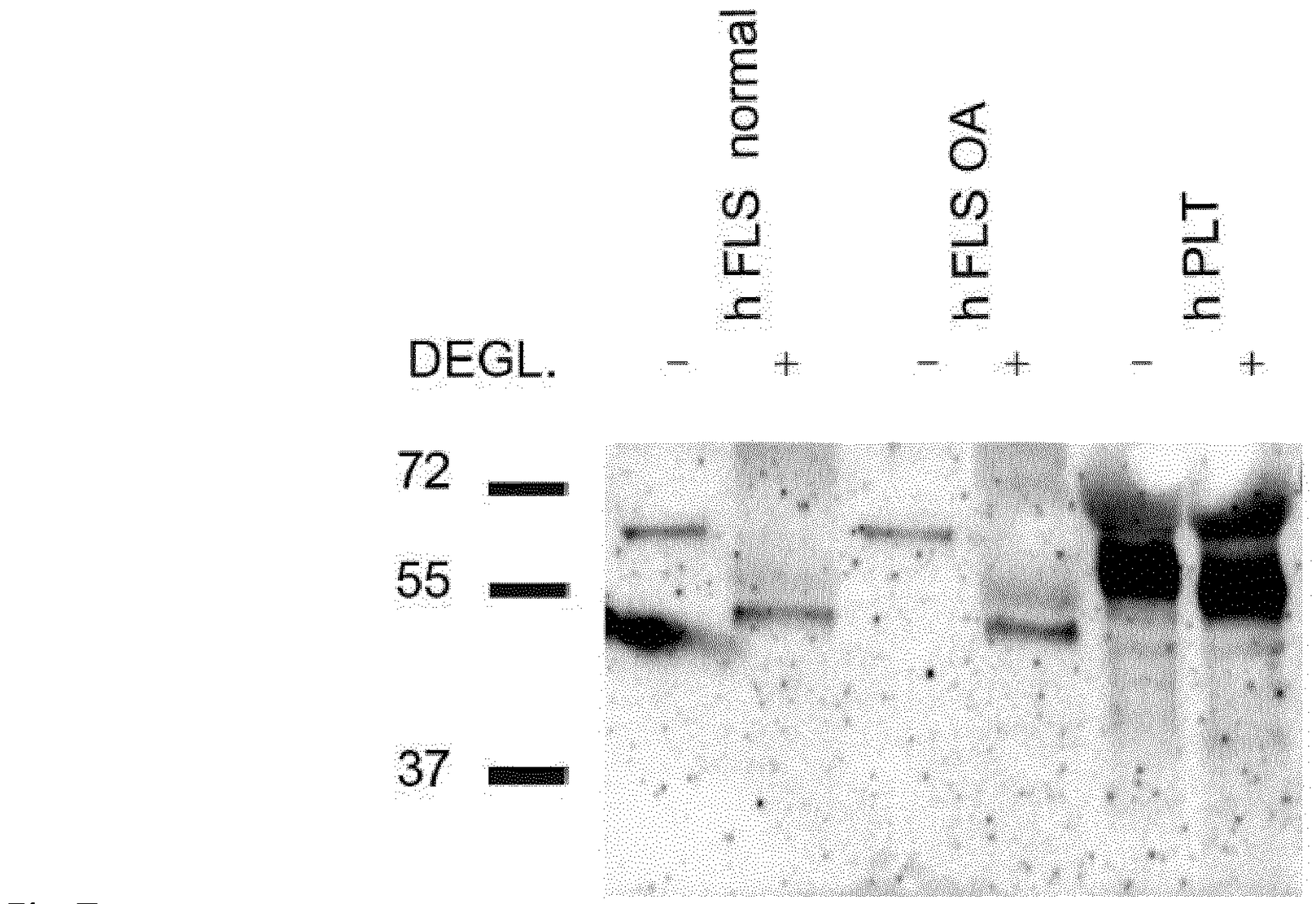


Fig.7

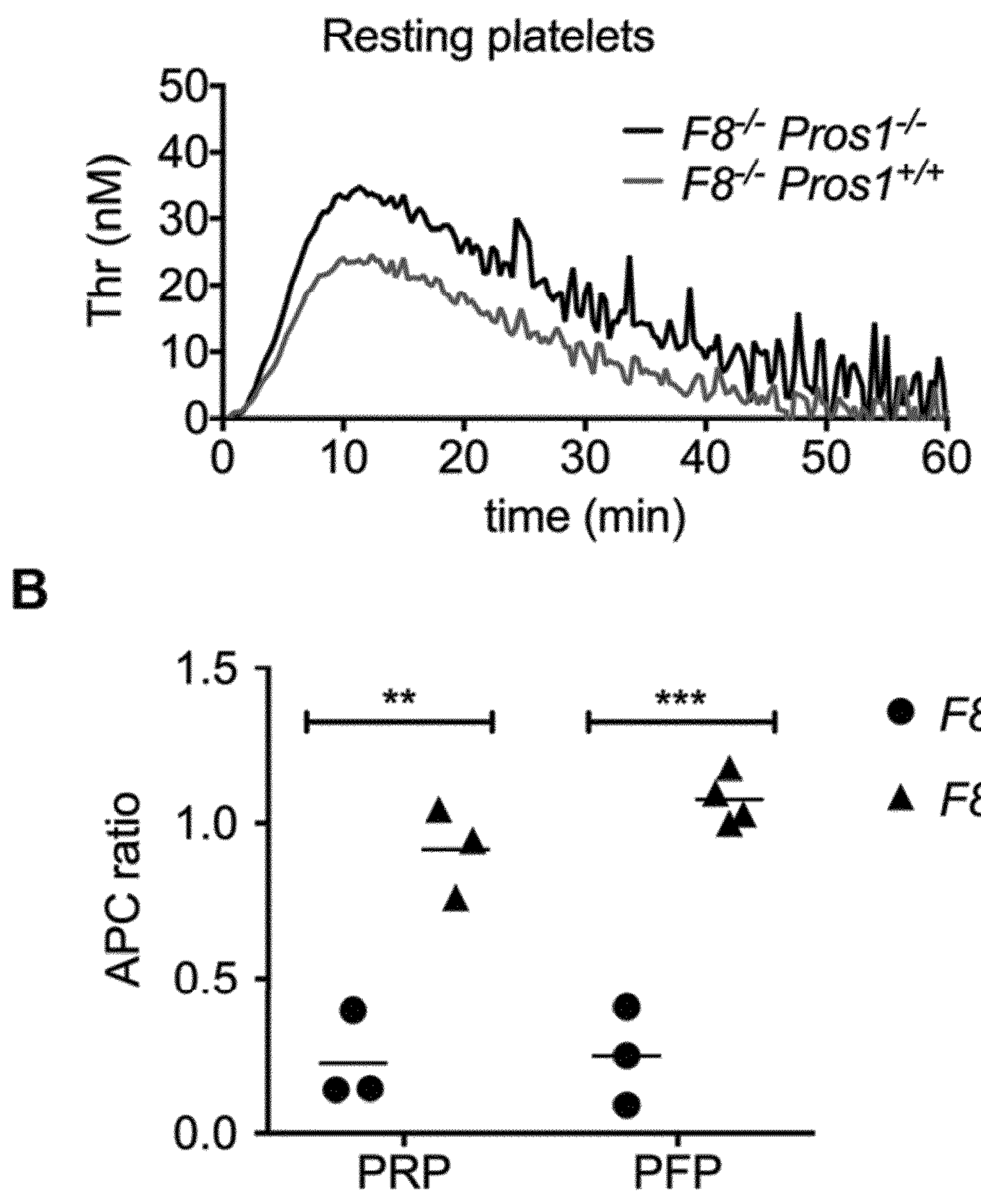


Fig.7 (continued)

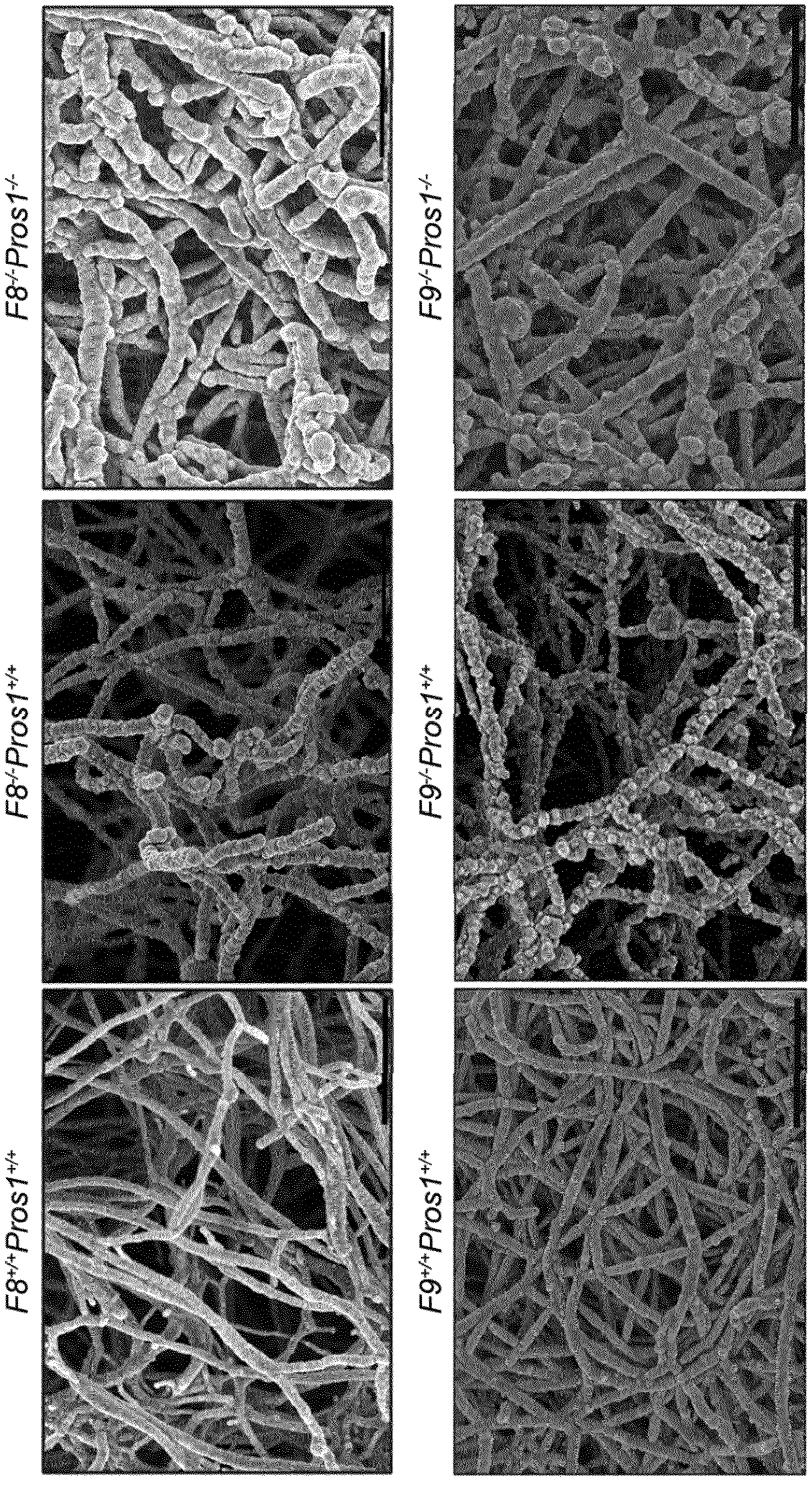
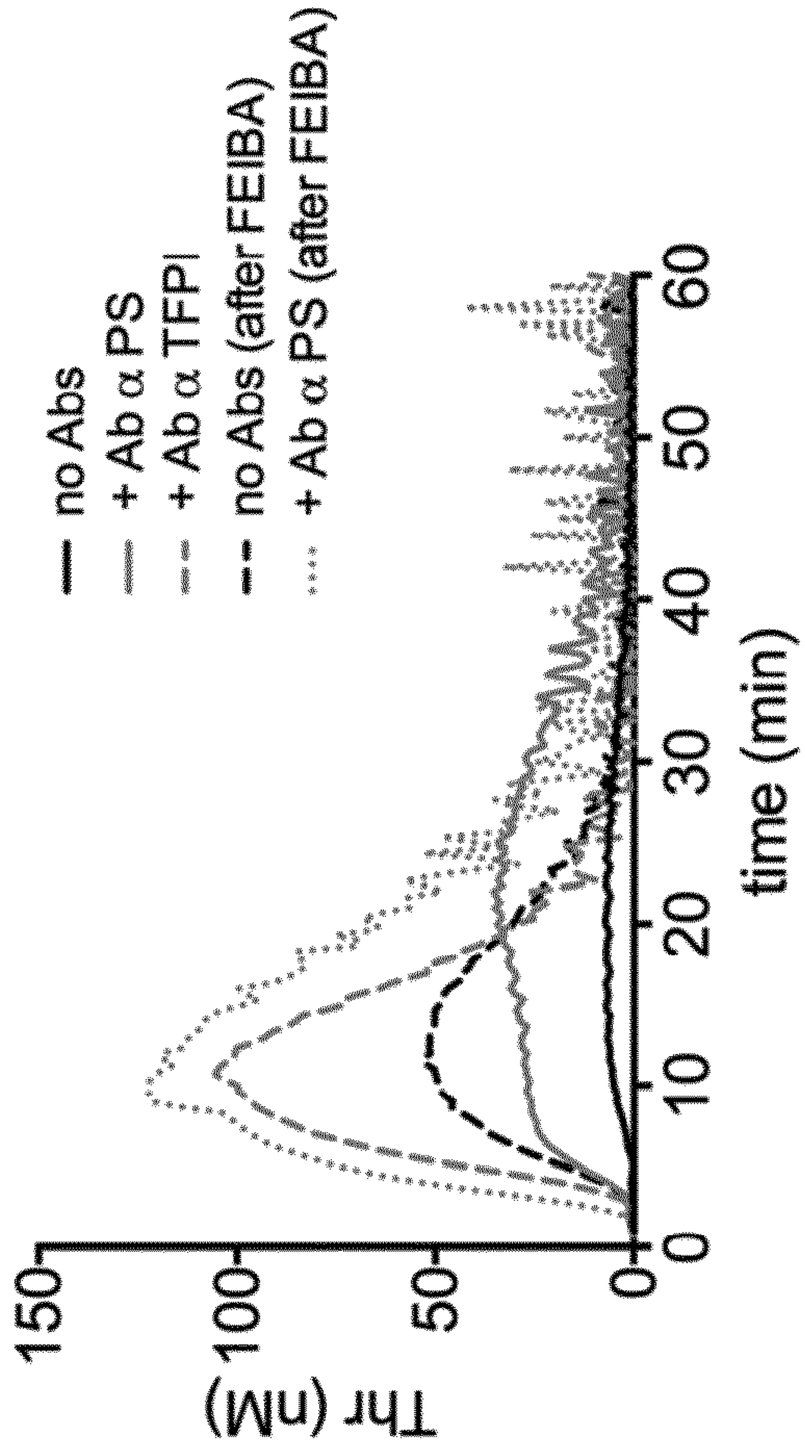
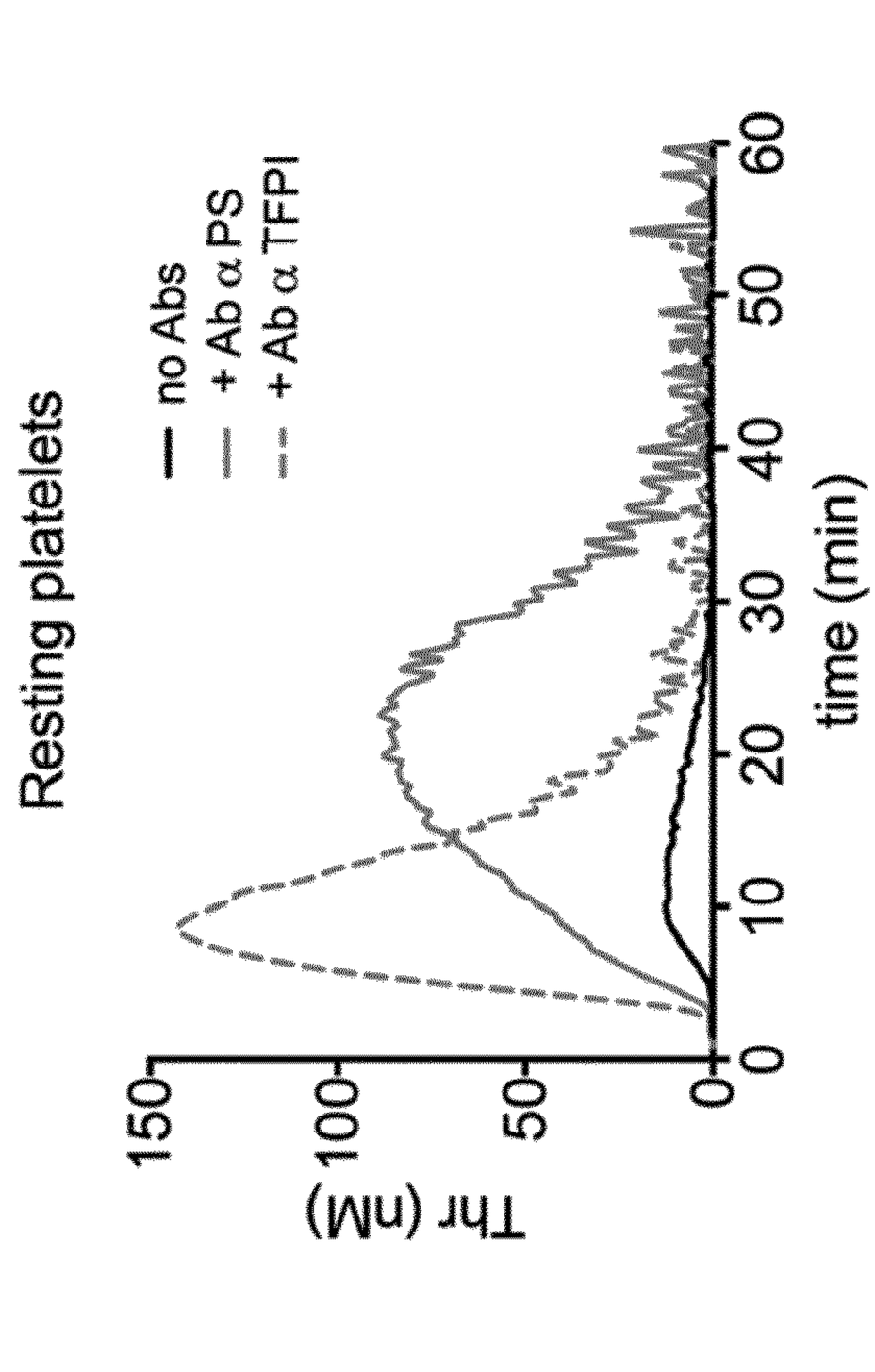
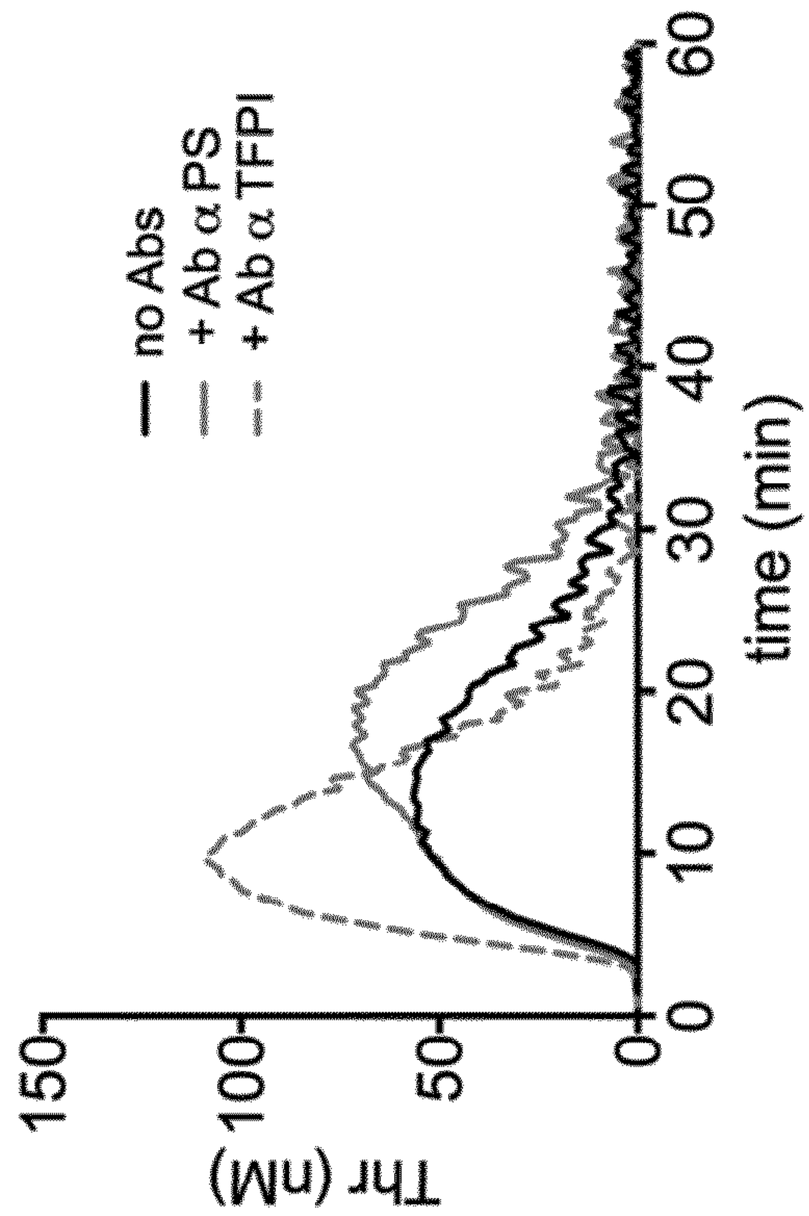


Fig.7 (continued)

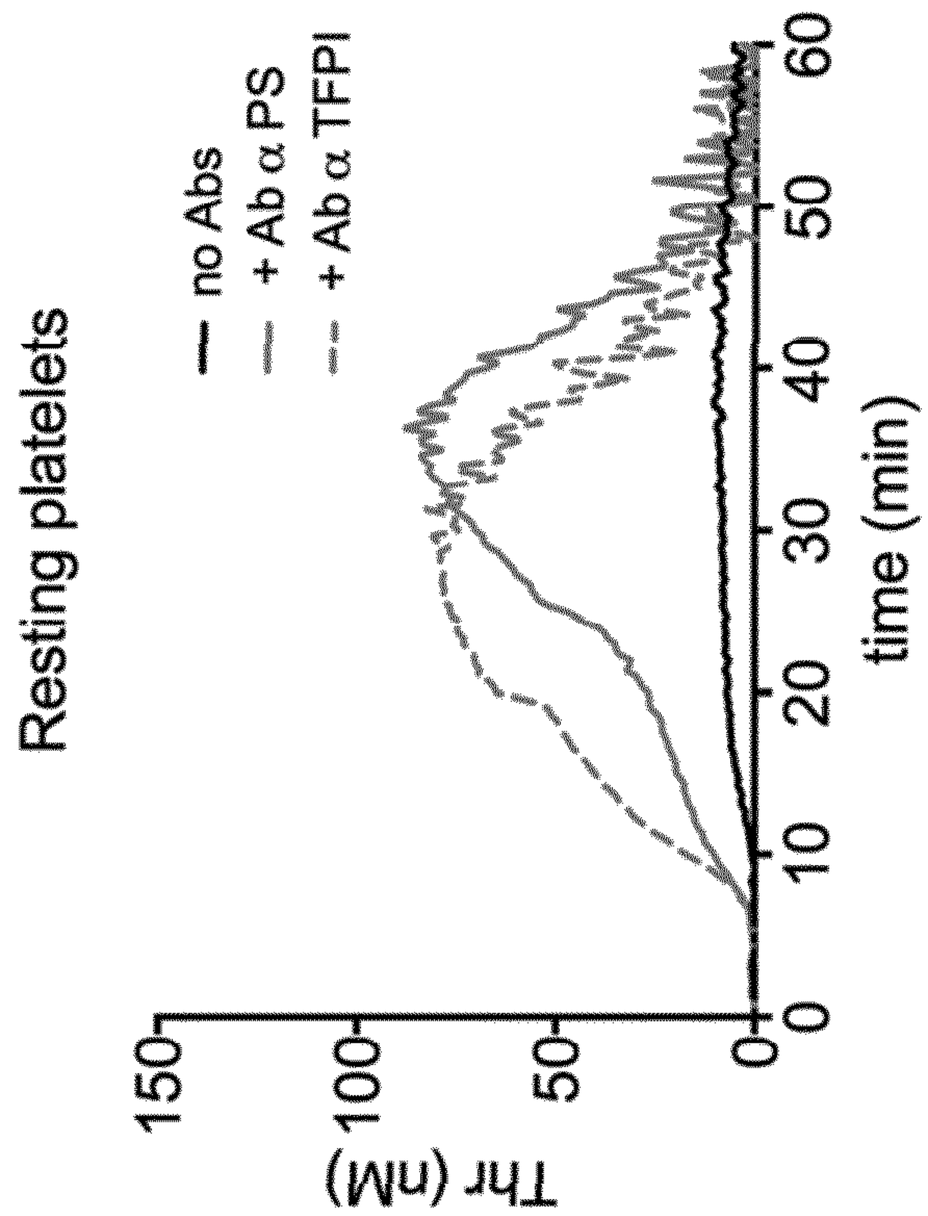




E



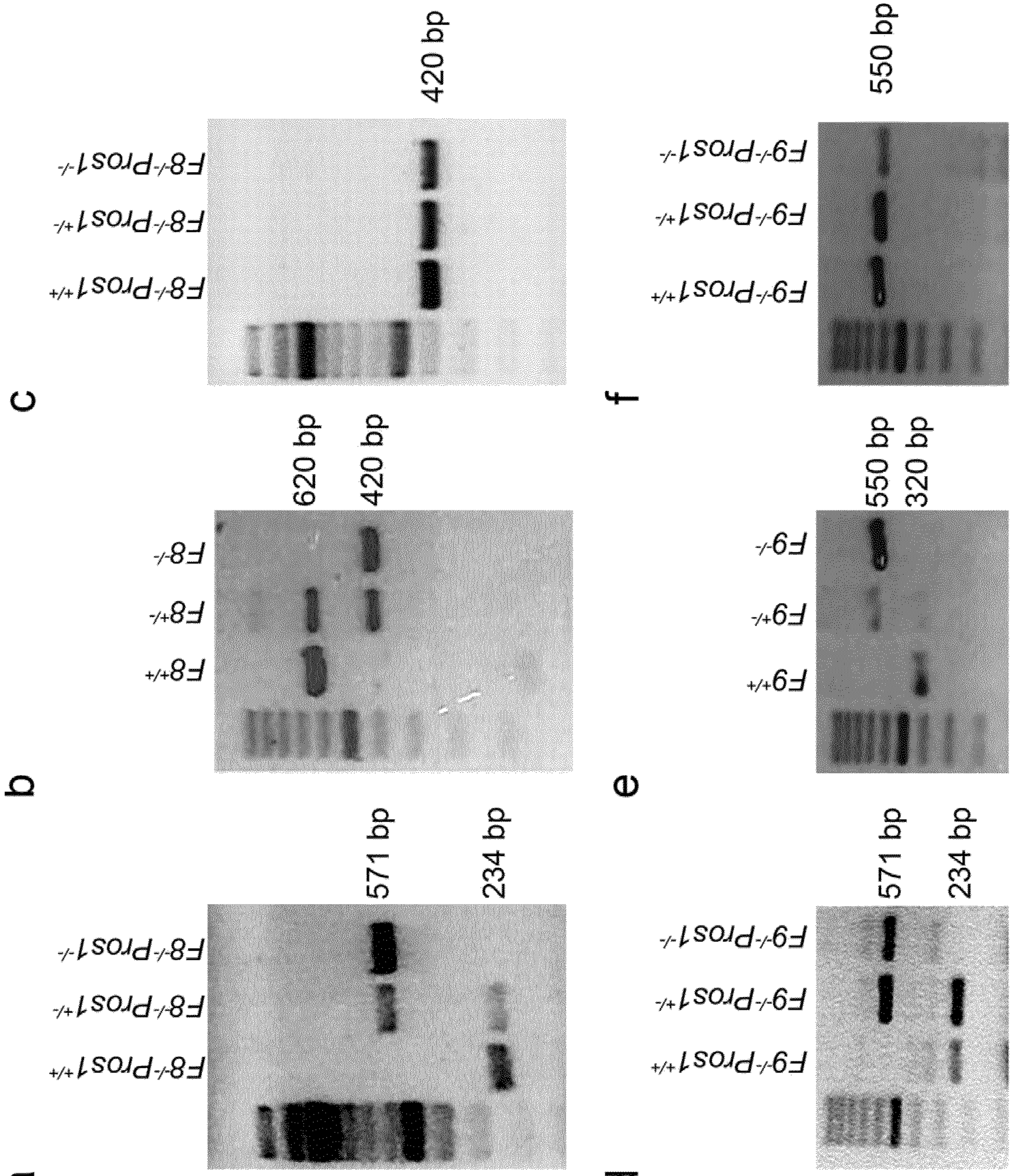
G



D

F

Fig.8


a
F8-/-Pros1-/-
F8-/-Pros1+/-
F8-/-Pros1+/+
571 bp
234 bp
b
F8-/-
F8+/-
F8+/+
620 bp
420 bp
c
F8-/-Pros1-/-
F8-/-Pros1+/-
F8-/-Pros1+/+
420 bp
d
F9-/-Pros1-/-
F9-/-Pros1+/-
F9-/-Pros1+/+
571 bp
234 bp
e
F9-/-
F9+/-
F9+/+
550 bp
320 bp
f
F9-/-Pros1-/-
F9-/-Pros1+/-
F9-/-Pros1+/+
550 bp

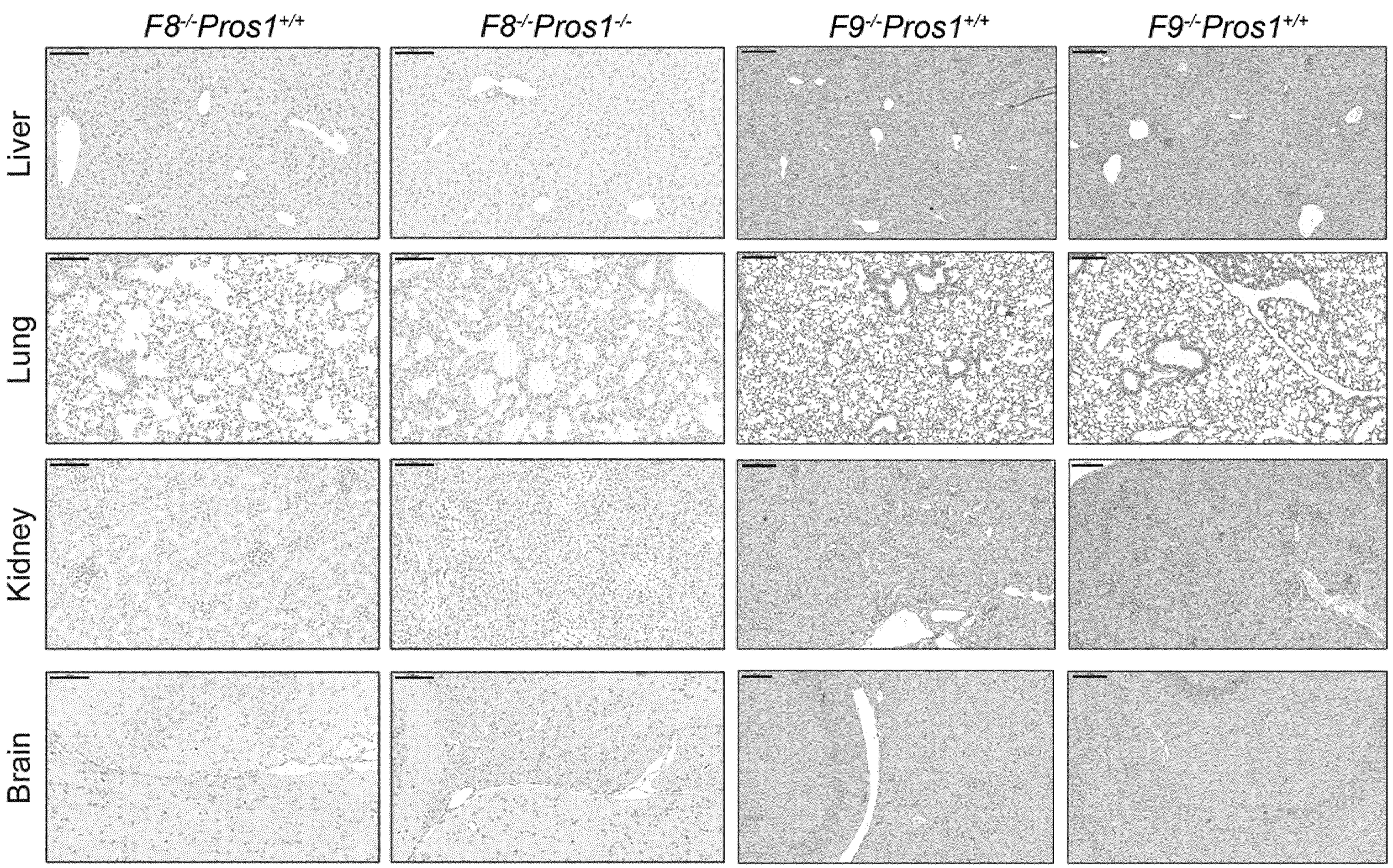
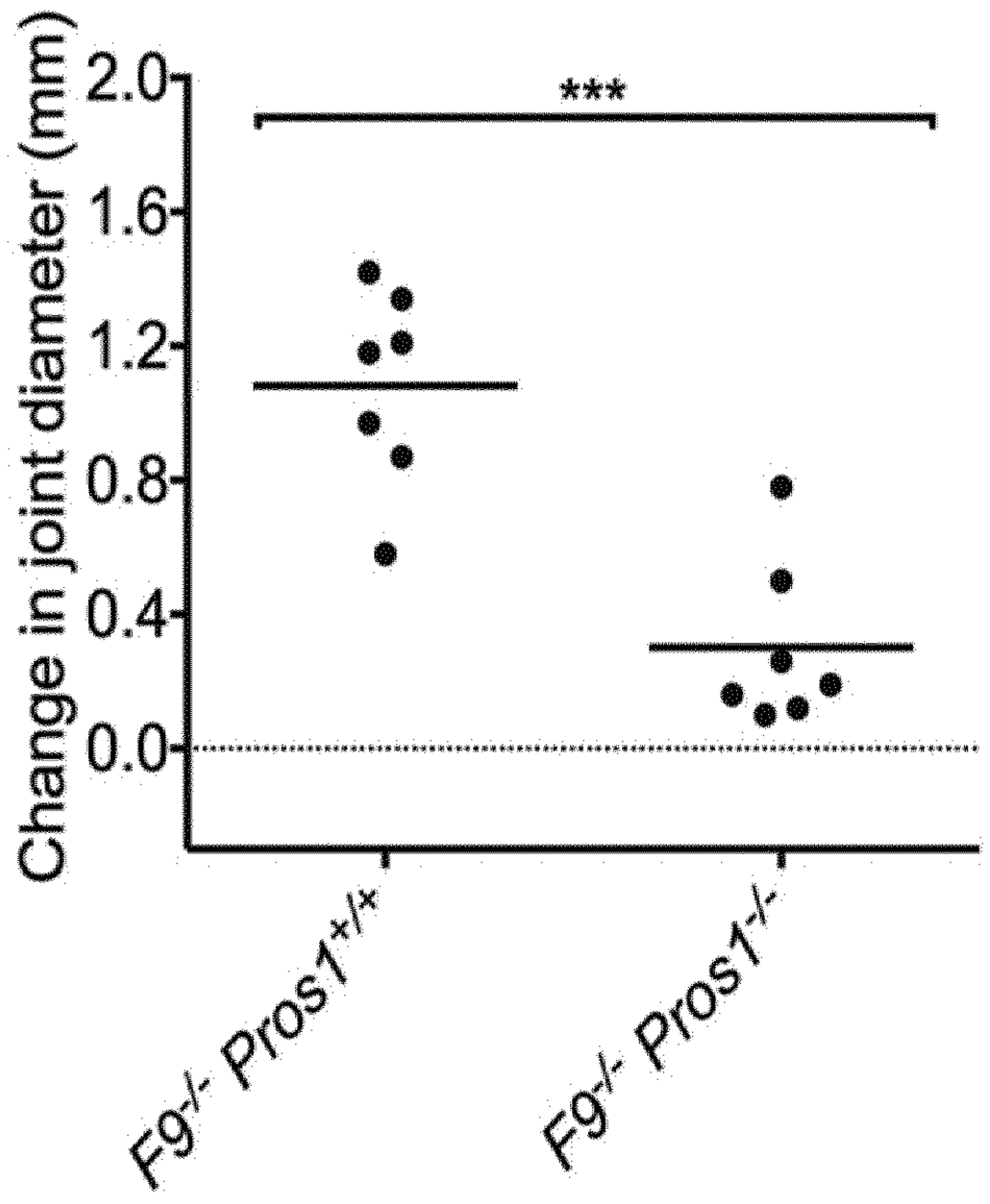


Fig.9

Fig.10


A
Change in joint diameter (mm)
2.0
1.6
1.2
0.8
0.4
0.0
***
F9-/- Pros1+/+
F9-/- Pros1-/-

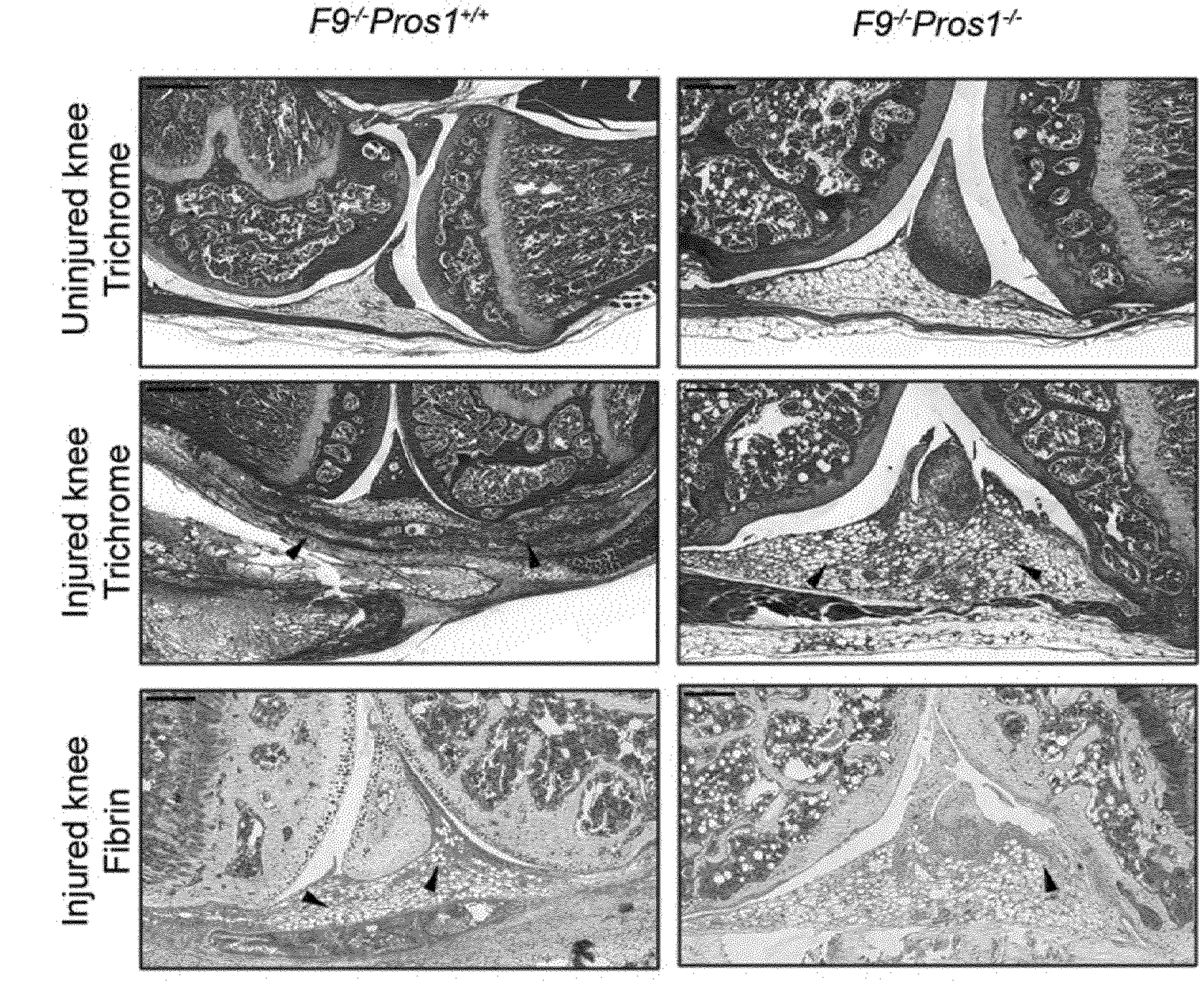
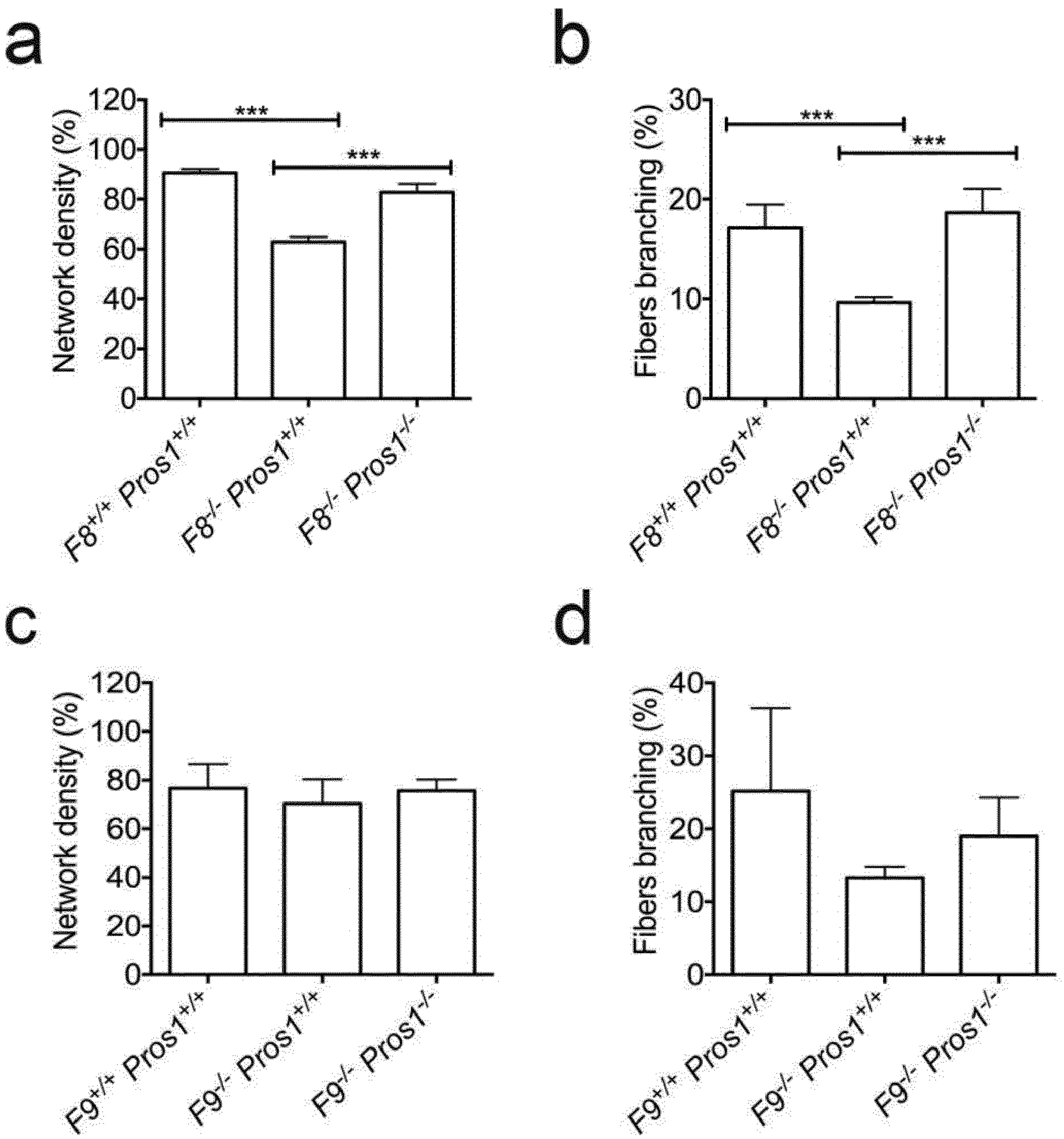

B
F9-/-Pros1+/+
F9-/-Pros1-/-
Uninjured knee Trichrome
Injured knee Trichrome
Injured knee Fibrin

Fig.11


a
b
c
d
Network density (%)
Fibers branching (%)
0
20
40
60
80
100
120
10
30
***
F8+/+ Pros1+/+
F8-/- Pros1+/+
F8-/- Pros1-/-
F9+/+ Pros1+/+
F9-/- Pros1+/+
F9-/- Pros1-/-