A
Day 3.25 EB
GFP+/Flk-1+
GFP+/Flk-1-
Hematopoietic/
vascular cells
Cardiomyocytes
Flk-1
GFP-Bry
B
day
GFP/Flk-1
3.0
3.25
3.5
+/-
+/+
+/-
+/+
+/-
+/+
jagged-1
notch4
β-actin
C
Core
Outer cells
brachyury
gata-1
flk-1
cd31
ve-cad
notch4
l32
D
endo
hematopoietic
VSM
gata-1
flk-1
cd31
ve-cad
notch4
sma
pdgfβr
l32

Figure 1

A
90%
HA
Counts
B
relative cell number
-Dox
75.5
+Dox
13
CD41
-Dox
10.3
+Dox
20.1
VE-cad
C
Ep
Ed
Mac
E/Mac
Colonies/2 x 10⁴ cells
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
-Dox
+Dox
D
Dox - +
gata-1
flk-1
ve-cad
sm22
pdgfβr
nkx2.5
l32

Figure 2

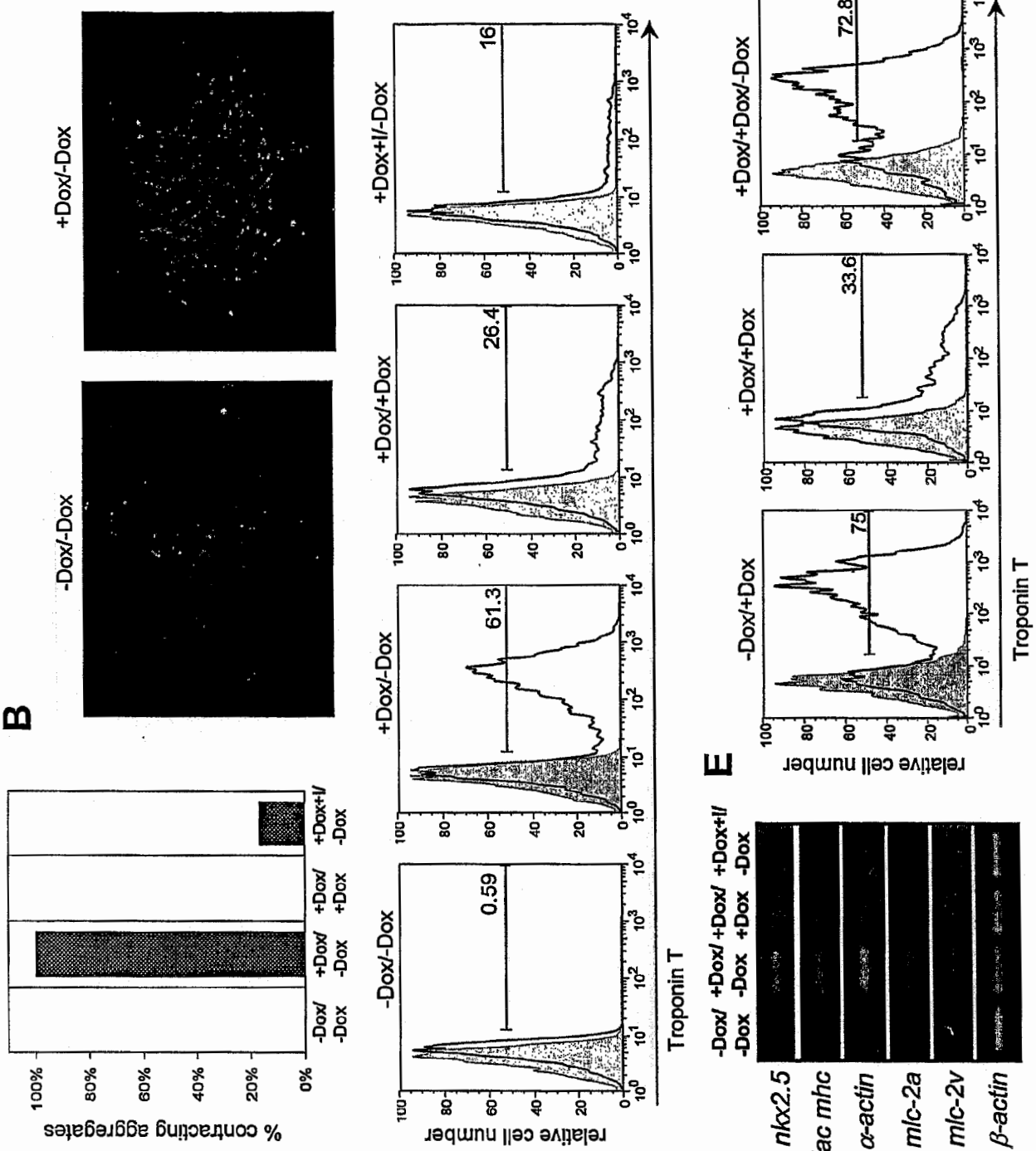

A
% contracting aggregates
100%
80%
60%
40%
20%
0%
-Dox/ -Dox
+Dox/ -Dox
+Dox/ +Dox
+Dox+I/ -Dox
B
-Dox/-Dox
+Dox/-Dox
C
-Dox/-Dox
+Dox/-Dox
+Dox/+Dox
+Dox+I/-Dox
0.59
61.3
26.4
16
relative cell number
Troponin T
D
-Dox/ -Dox
+Dox/ -Dox
+Dox/ +Dox
+Dox+I/ -Dox
nkx2.5
cardiac mhc
cardiac α-actin
mlc-2a
mlc-2v
β-actin
E
-Dox/+Dox
+Dox/+Dox
+Dox/+Dox/-Dox
75
33.6
72.8
relative cell number
Troponin T

Figure 3.

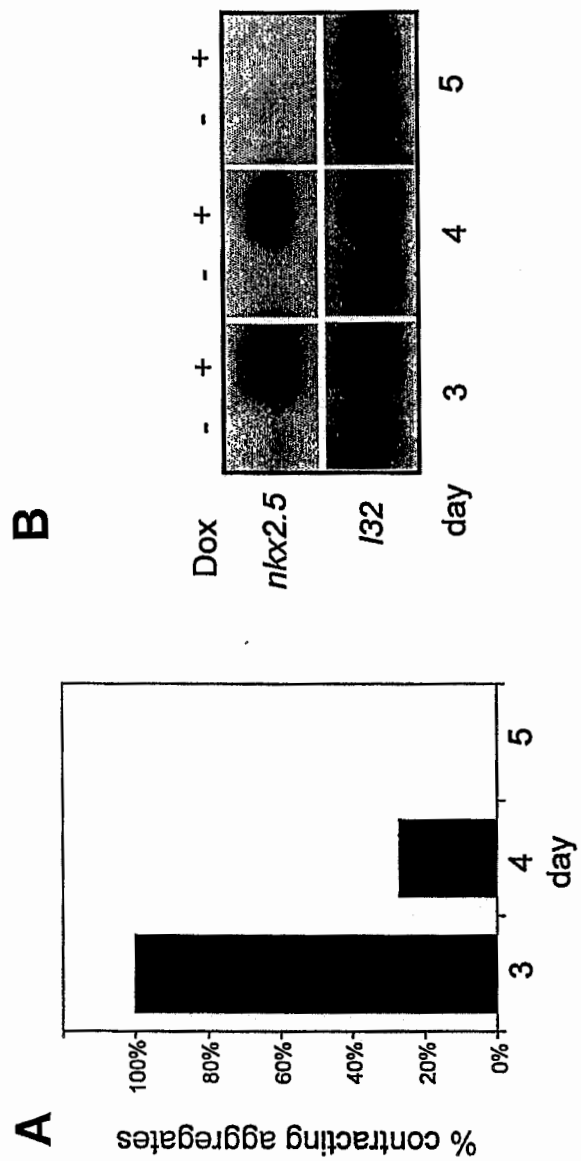

A
% contracting aggregates
100%
80%
60%
40%
20%
0%
3
4
5
day
B
Dox
nkx2.5
l32
- + - + - +
3
4
5
day

Figure 4.

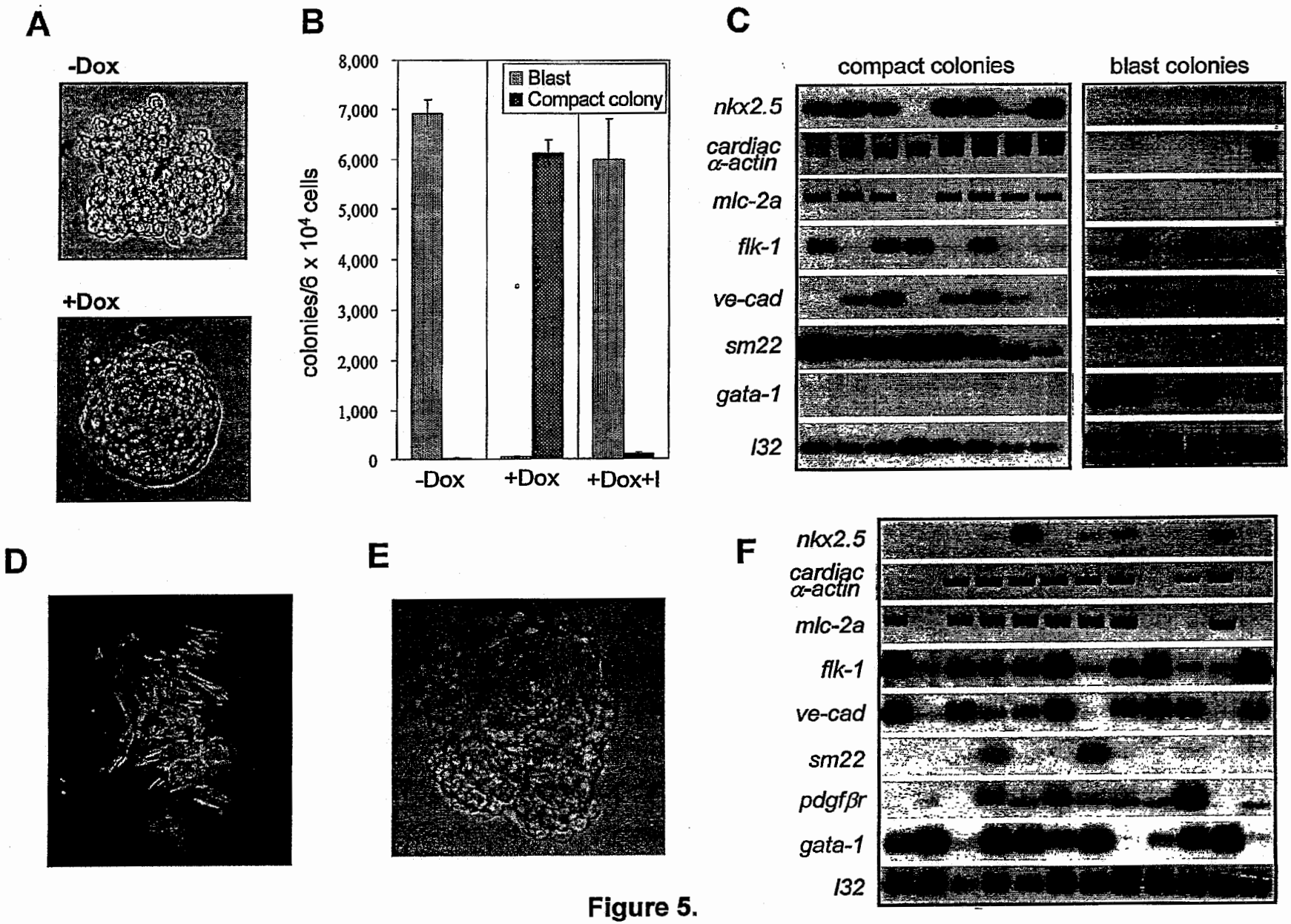

A
-Dox
+Dox
B
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
colonies/6 x 10⁴ cells
Blast
Compact colony
-Dox
+Dox
+Dox+I
C
compact colonies
blast colonies
nkx2.5
cardiac α-actin
mlc-2a
flk-1
ve-cad
sm22
gata-1
l32
D
E
F
nkx2.5
cardiac α-actin
mlc-2a
flk-1
ve-cad
sm22
pdgfβr
gata-1
l32

Figure 5.

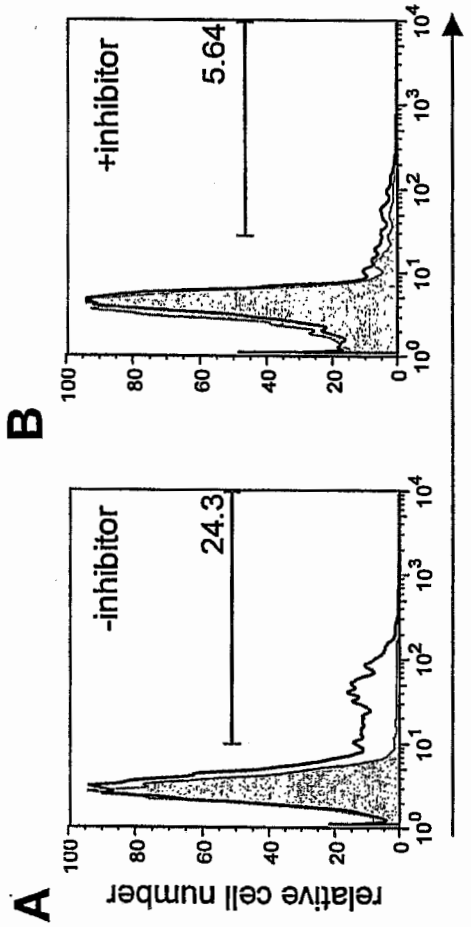

A
B
relative cell number
-inhibitor
+inhibitor
24.3
5.64
Troponin T

Figure 6.

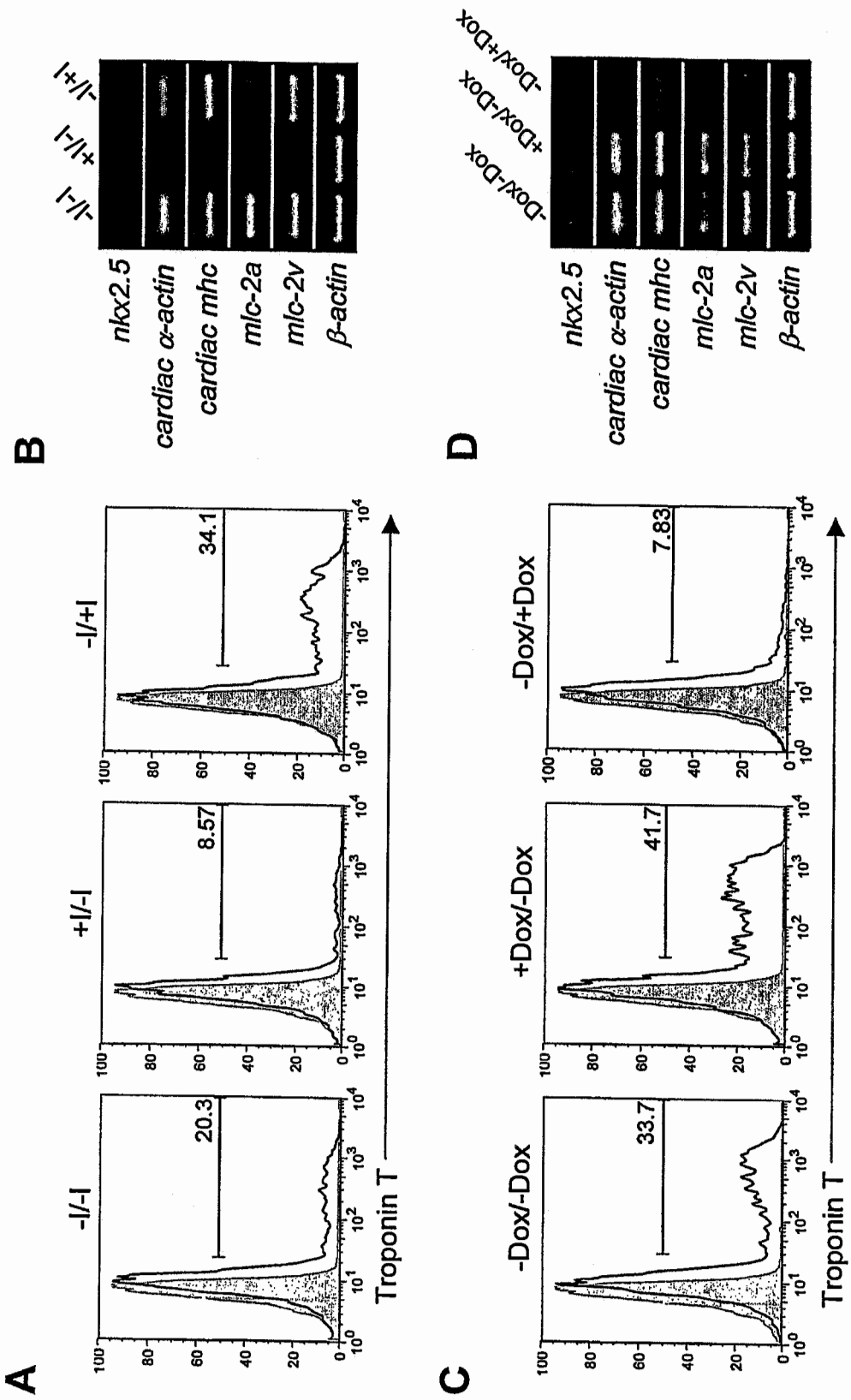

A
-/-/-
20.3
+/-/-
8.57
-/+/-
34.1
Troponin T
B
-/-/-
+/-/-
-/+/-
nkx2.5
cardiac α-actin
cardiac mhc
mlc-2a
mlc-2v
β-actin
C
-Dox/-Dox
33.7
+Dox/-Dox
41.7
-Dox/+Dox
7.83
Troponin T
D
-Dox/-Dox
+Dox/-Dox
-Dox/+Dox
nkx2.5
cardiac α-actin
cardiac mhc
mlc-2a
mlc-2v
β-actin

Figure 7.

A
PPS
DPS
B
DPS PPS
nkx2.5
jagged-1
notch1
notch2
notch3
notch4
β-actin
C
% contracting PS
100.0%
80.0%
60.0%
40.0%
20.0%
0.0%
-inhibitor
+inhibitor
D
-inhibitor
+inhibitor
cardiac α-actin
mlc-2a
mlc-2v
l32

Figure 8.