DRAWINGS

Fig. 1

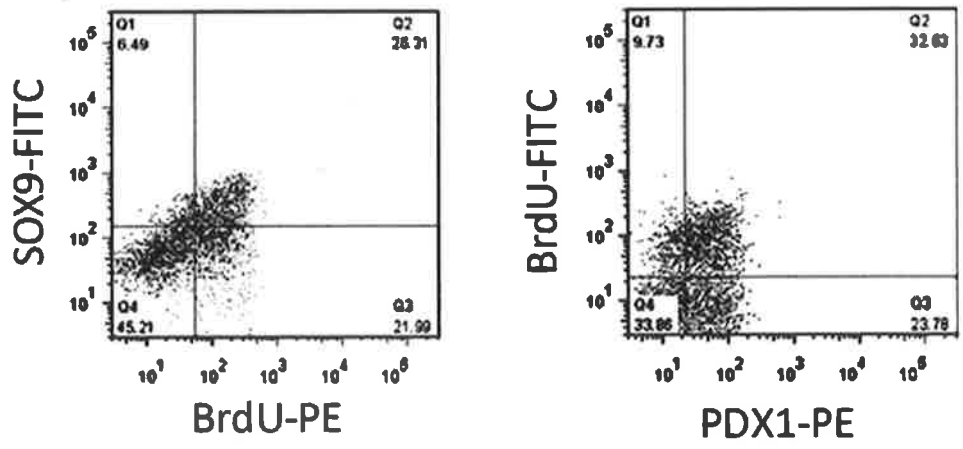


Fig. 2

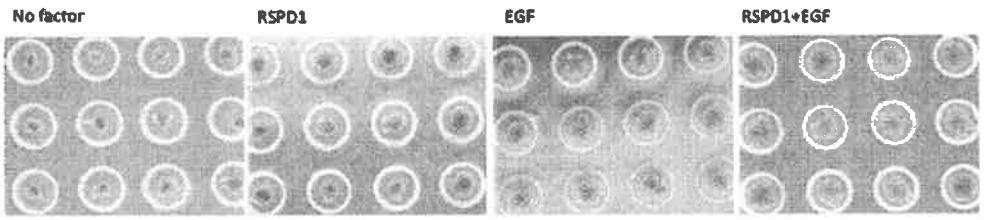


Fig. 3

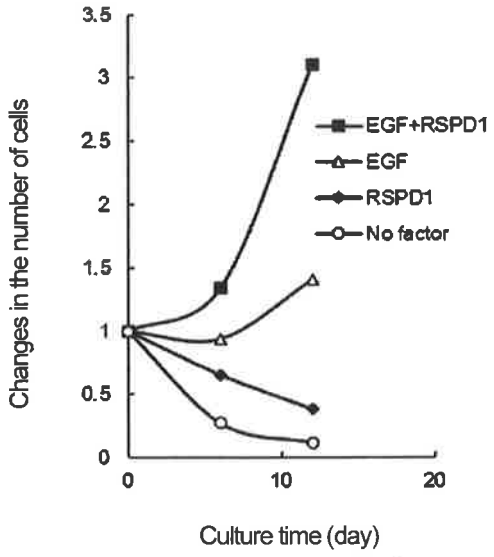


Fig. 4

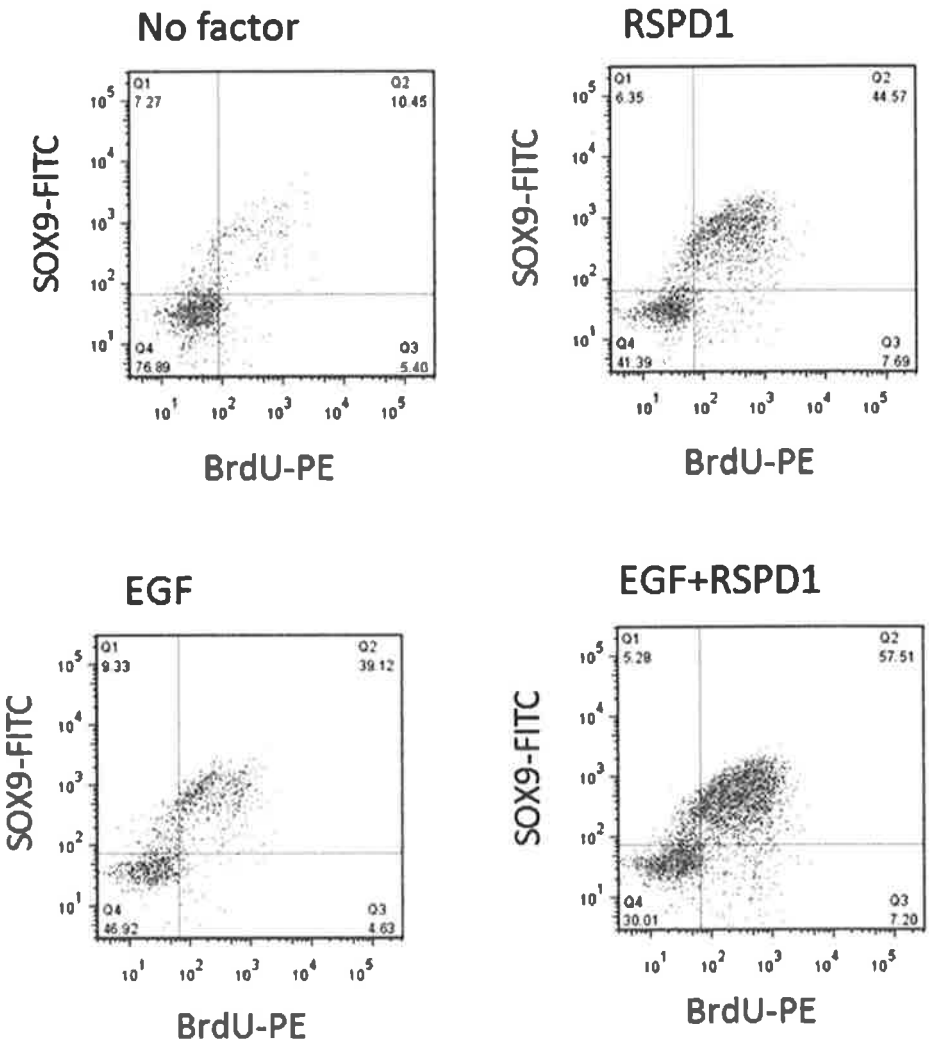

No factor
Q1
7.27
Q2
10.45
Q4
76.89
Q3
5.40
SOX9-FITC
BrdU-PE
RSPD1
Q1
6.35
Q2
44.57
Q4
41.39
Q3
7.69
SOX9-FITC
BrdU-PE
EGF
Q1
9.33
Q2
39.12
Q4
46.92
Q3
4.63
SOX9-FITC
BrdU-PE
EGF+RSPD1
Q1
5.28
Q2
57.51
Q4
30.01
Q3
7.20
SOX9-FITC
BrdU-PE

Fig. 5

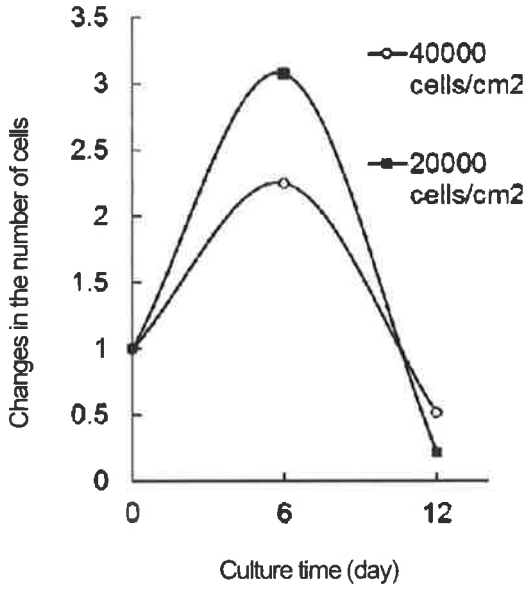

3.5
3
2.5
2
1.5
1
0.5
0
0
6
12
Changes in the number of cells
Culture time (day)
40000 cells/cm2
20000 cells/cm2

Fig. 6

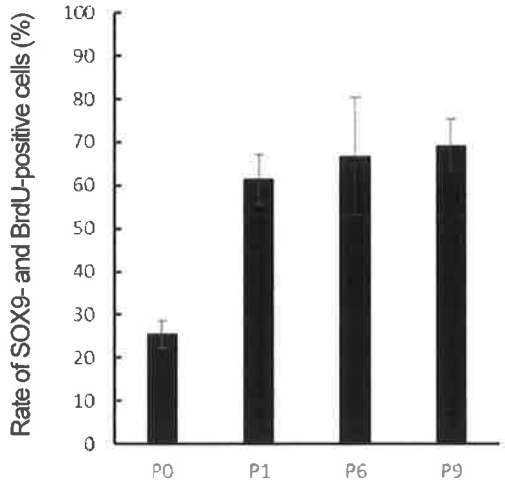

Rate of SOX9- and BrdU-positive cells (%)
100
90
80
70
60
50
40
30
20
10
0
P0
P1
P6
P9

Fig. 7

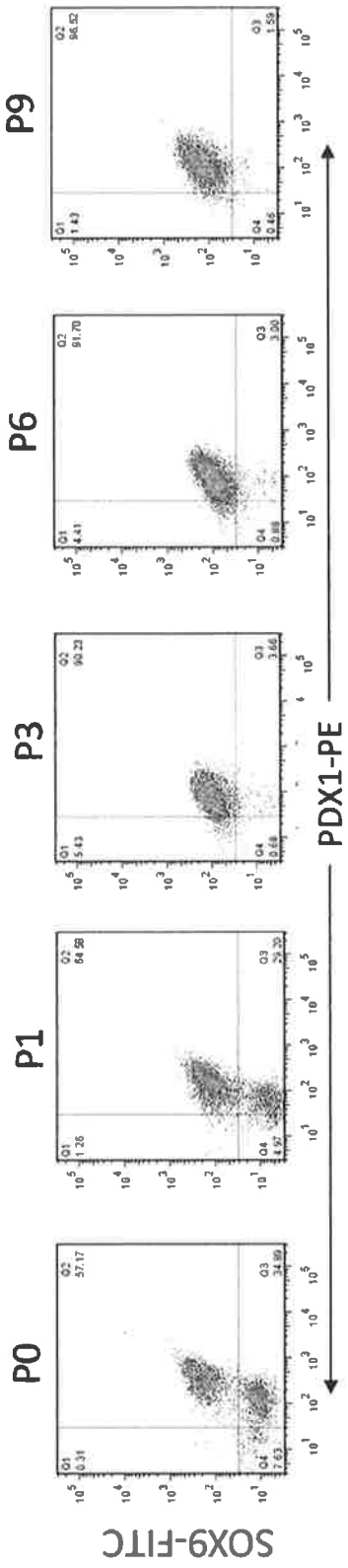


Fig. 8

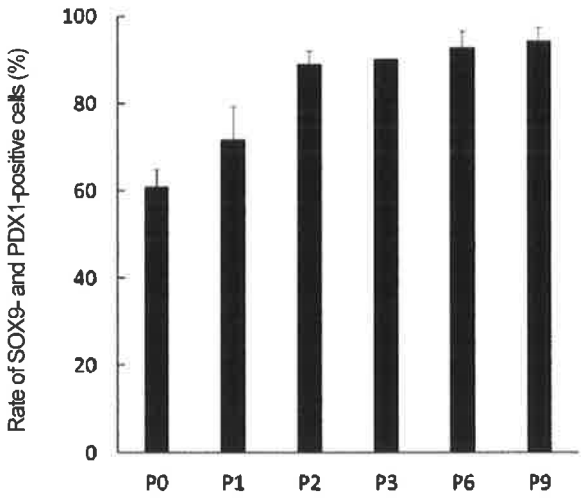

Rate of SOX9- and PDX1-positive cells (%)
100
80
60
40
20
0
P0
P1
P2
P3
P6
P9

Fig. 9

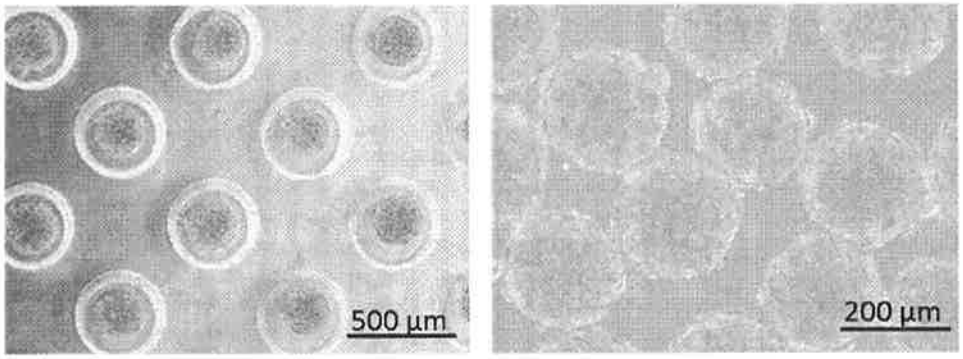

500 µm
200 µm

Fig. 10

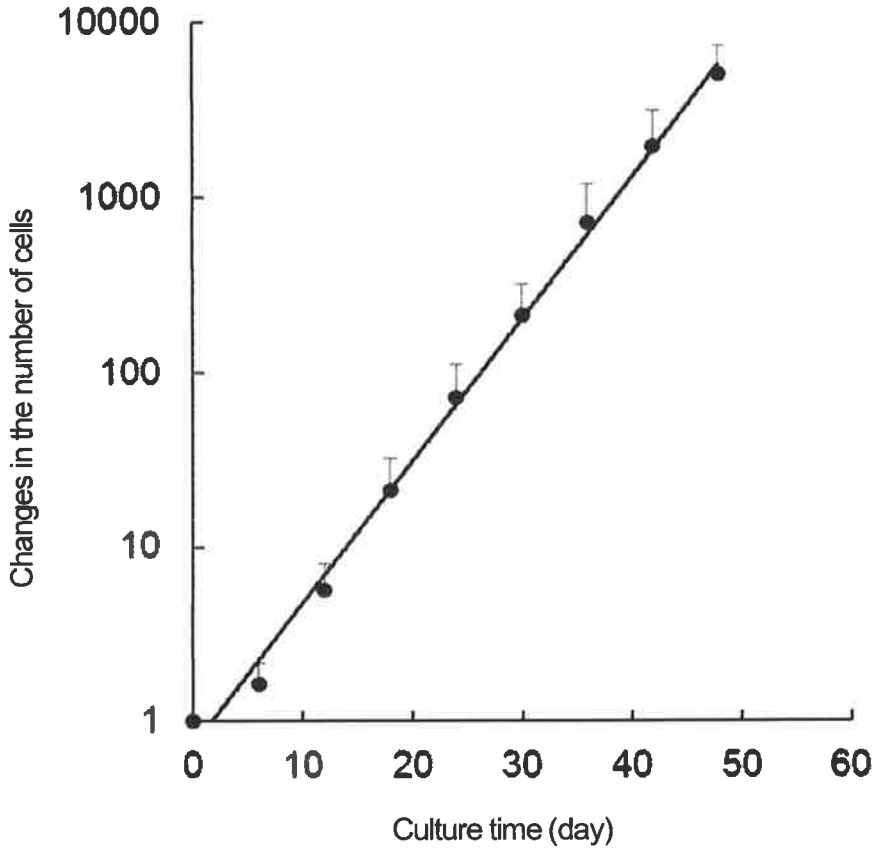

10000
1000
100
10
1
Changes in the number of cells
0
10
20
30
40
50
60
Culture time (day)

Fig. 11

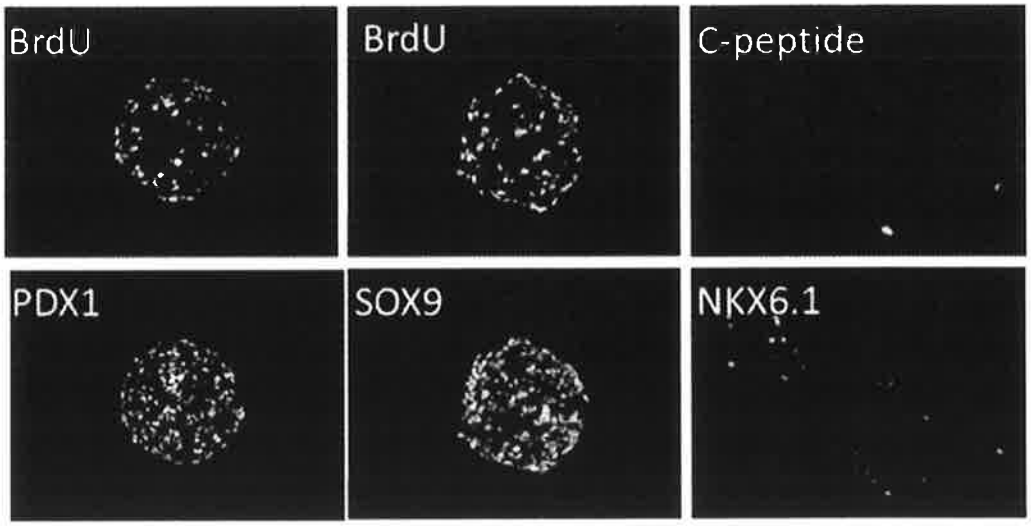

BrdU
BrdU
C-peptide
PDX1
SOX9
NKX6.1

Fig. 12

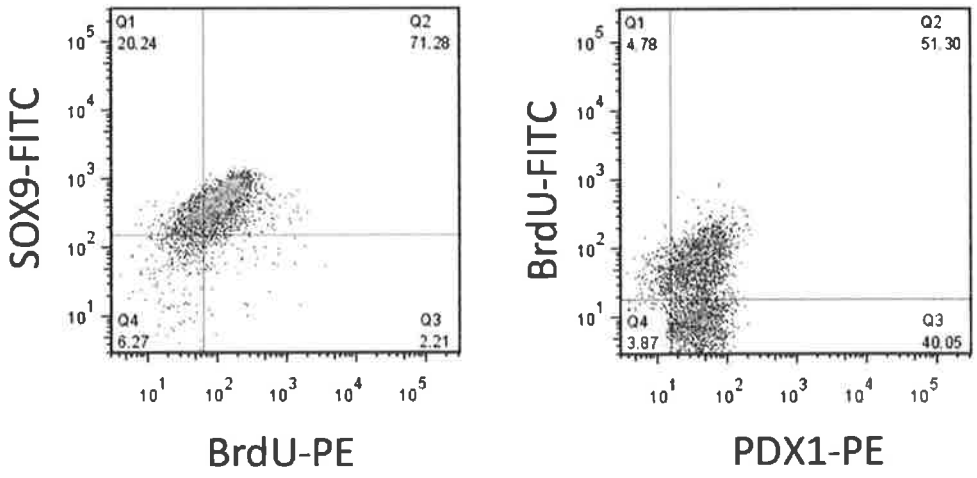

SOX9-FITC
BrdU-PE
Q1
20.24
Q2
71.28
Q4
6.27
Q3
2.21
BrdU-FITC
PDX1-PE
Q1
4.78
Q2
51.30
Q4
3.87
Q3
40.05

Fig. 13

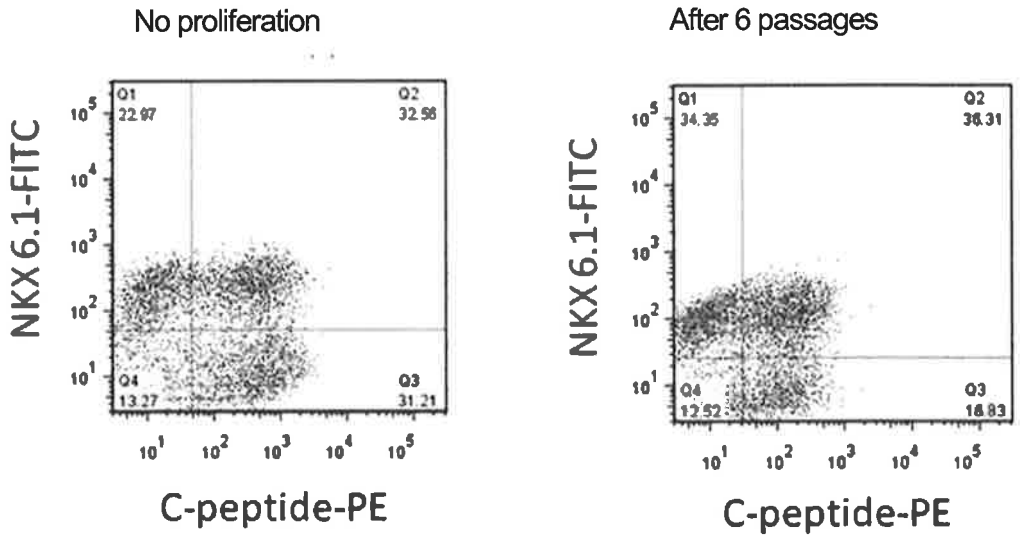

No proliferation
NKX6.1-FITC
C-peptide-PE
Q1
22.97
Q2
32.56
Q4
13.27
Q3
31.21
After 6 passages
NKX6.1-FITC
C-peptide-PE
Q1
34.35
Q2
36.31
Q4
12.52
Q3
16.83

Fig. 14

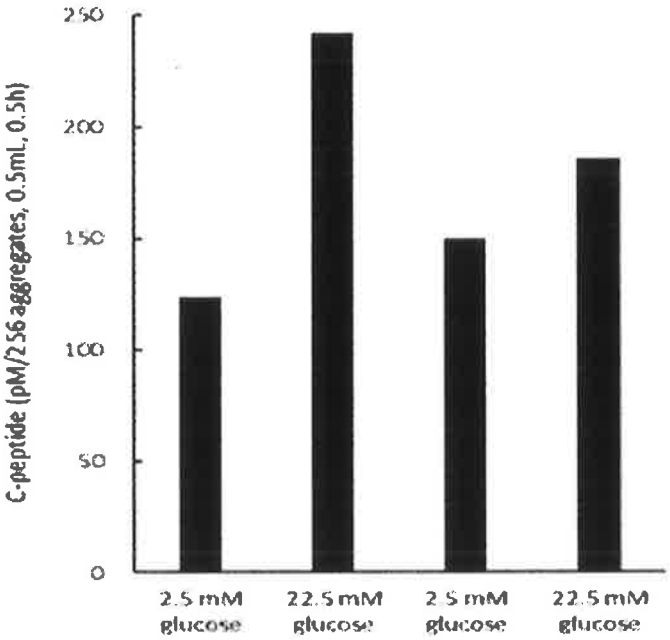


Fig. 15

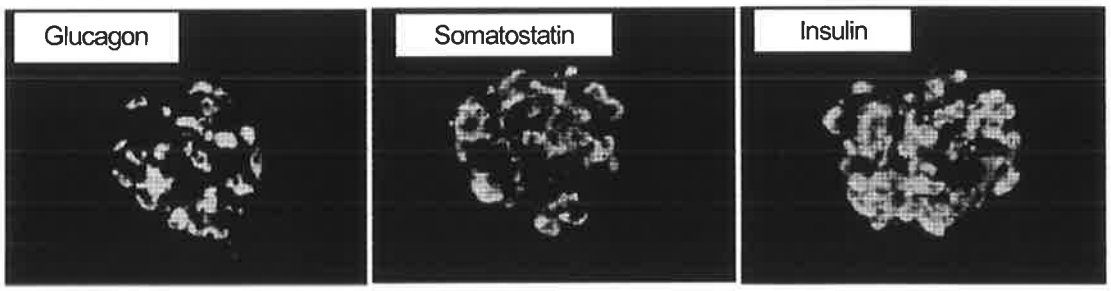


Fig. 16

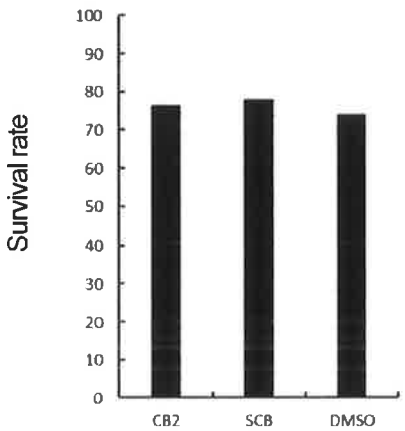


Fig. 17

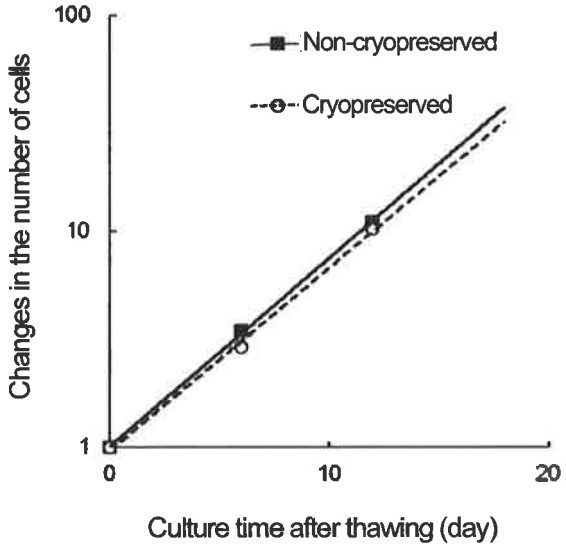

100
10
1
0
10
20
Changes in the number of cells
Culture time after thawing (day)
Non-cryopreserved
Cryopreserved

Fig. 18

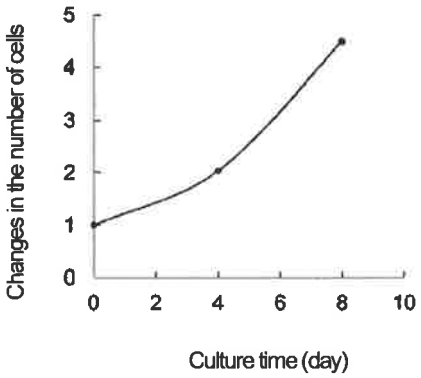

5
4
3
2
1
0
0
2
4
6
8
10
Changes in the number of cells
Culture time (day)

Fig. 19

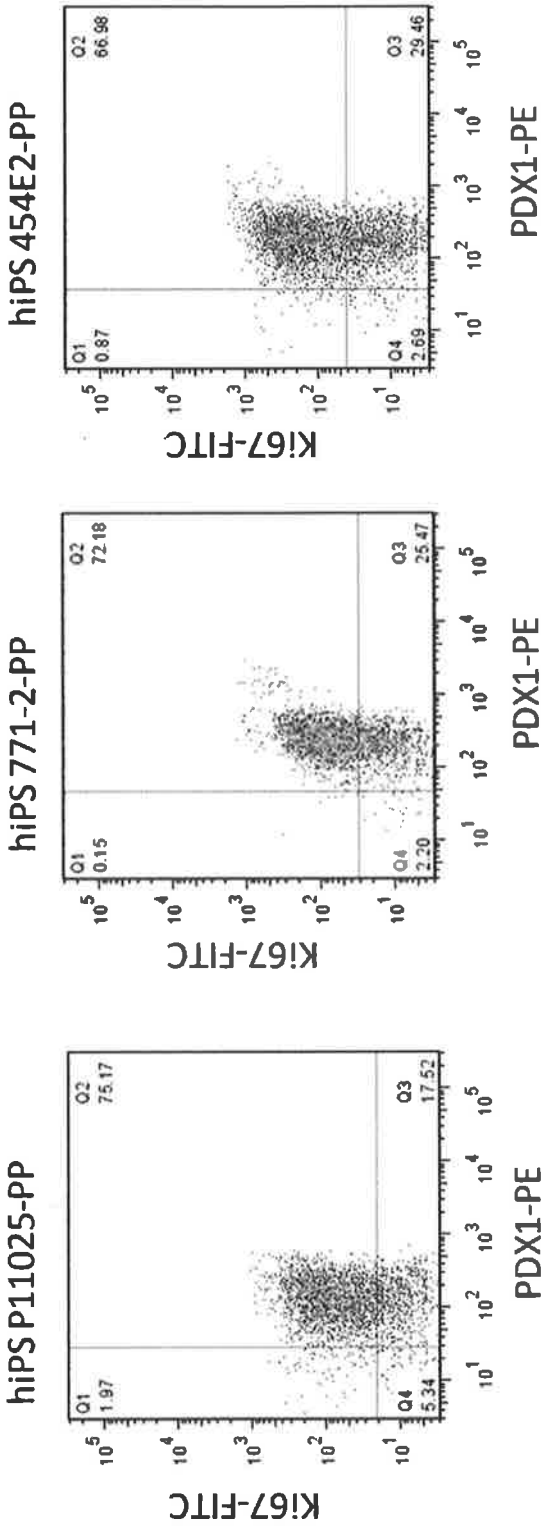

hiPS 454E2-PP
Q1 0.87
Q2 66.98
Q3 29.46
Q4 2.69
KI67-FITC
PDX1-PE
hiPS 771-2-PP
Q1 0.15
Q2 72.18
Q3 25.47
Q4 2.20
KI67-FITC
PDX1-PE
hiPS P11025-PP
Q1 1.97
Q2 75.17
Q3 17.52
Q4 5.34
KI67-FITC
PDX1-PE

Fig. 20

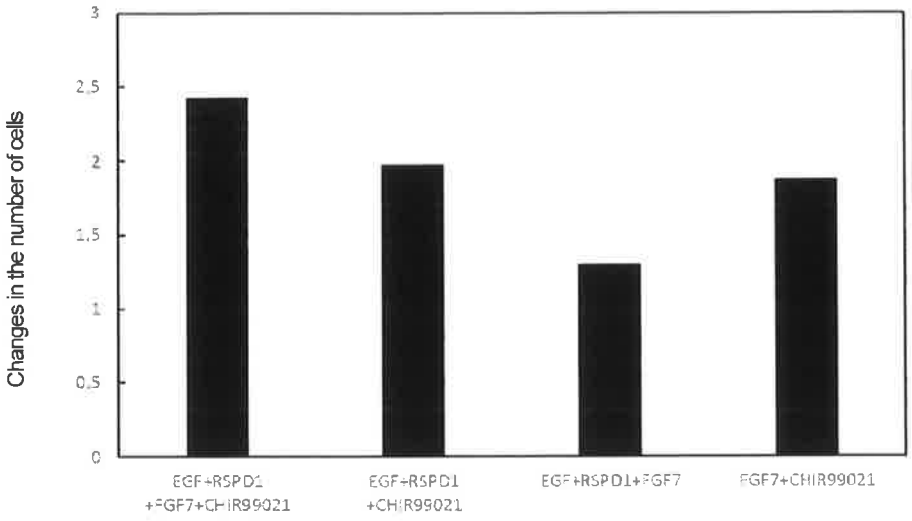
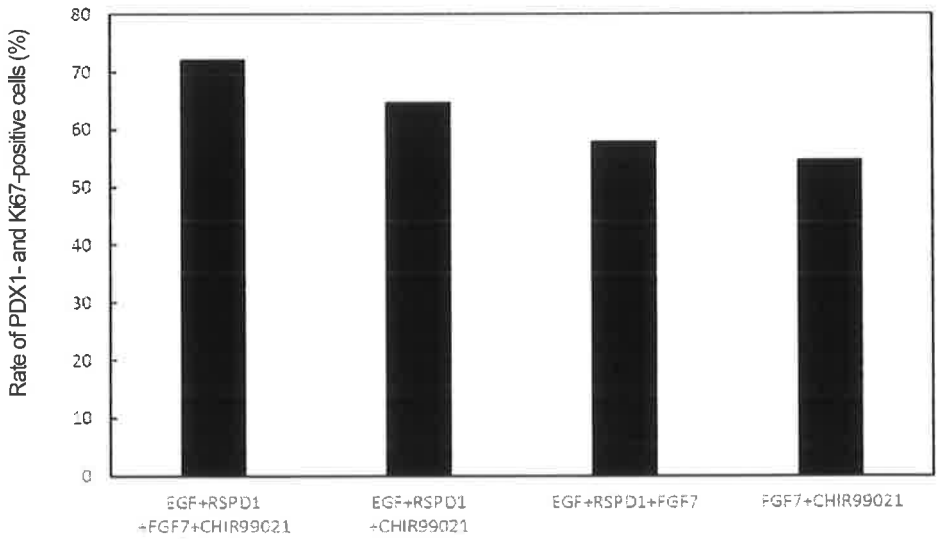

Changes in the number of cells
3
2.5
2
1.5
1
0.5
0
EGF+RSPD1 +FGF7+CHIR99021
EGF+RSPD1 +CHIR99021
EGF+RSPD1+FGF7
FGF7+CHIR99021

Fig. 21


Rate of PDX1- and Ki67-positive cells (%)
80
70
60
50
40
30
20
10
0
EGF+RSPD1 +FGF7+CHIR99021
EGF+RSPD1 +CHIR99021
EGF+RSPD1+FGF7
FGF7+CHIR99021