Figure 1

Figure 1A

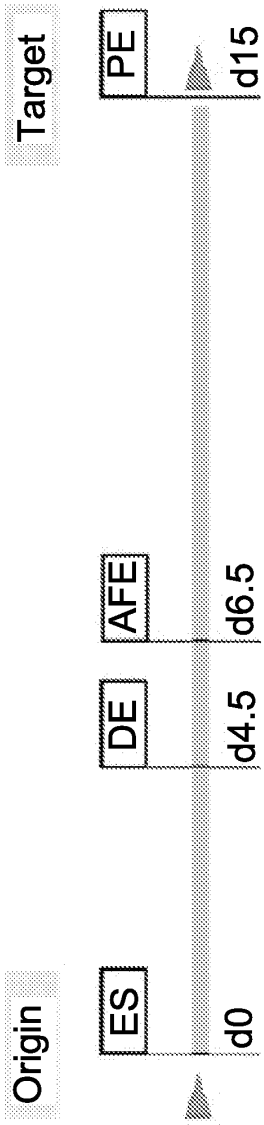


Figure 1B

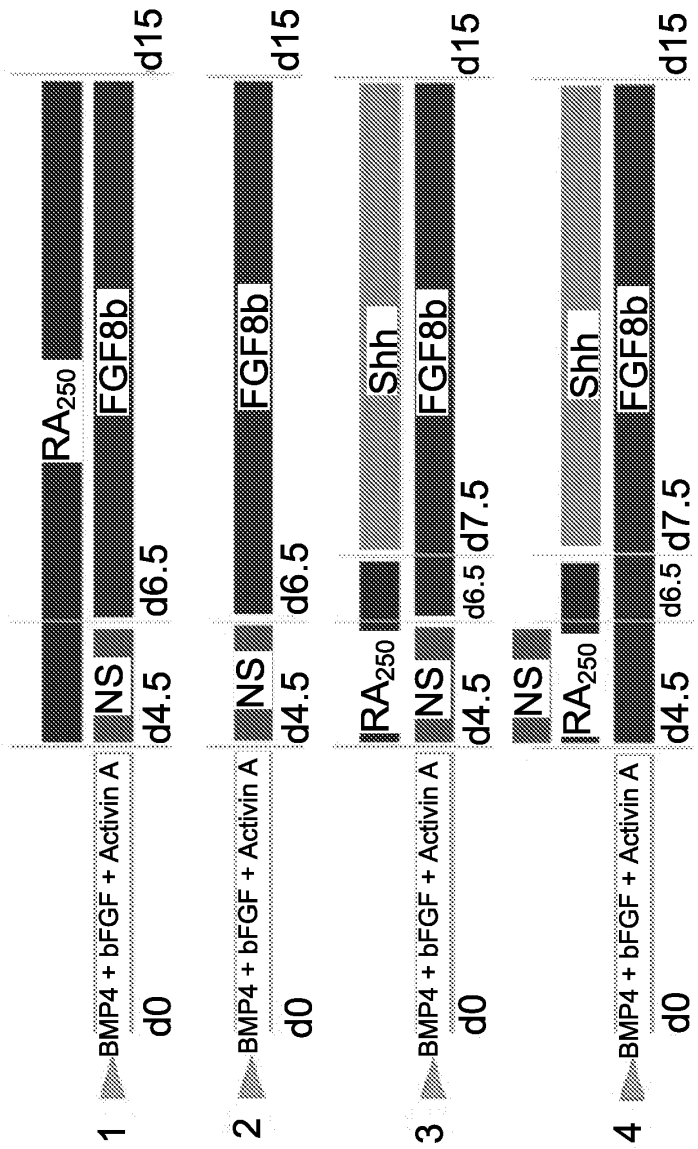


Figure 1C

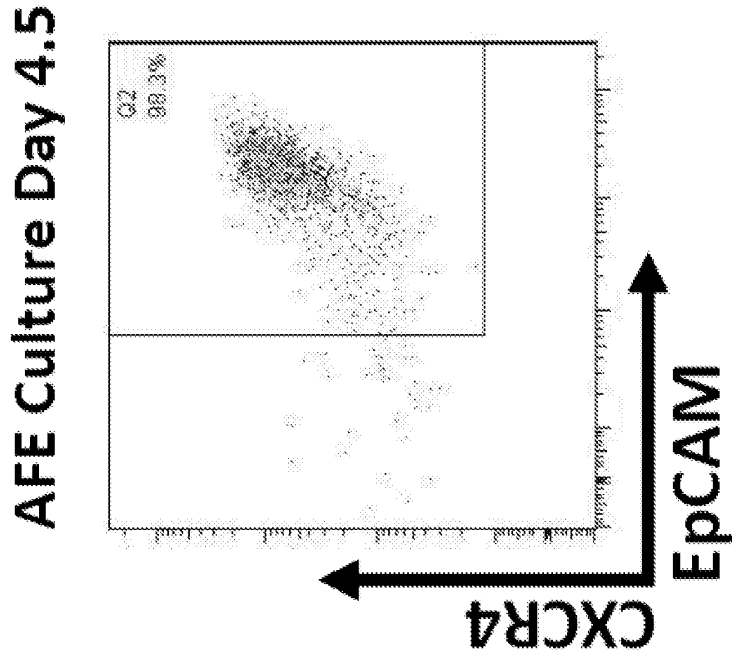


Figure 1D

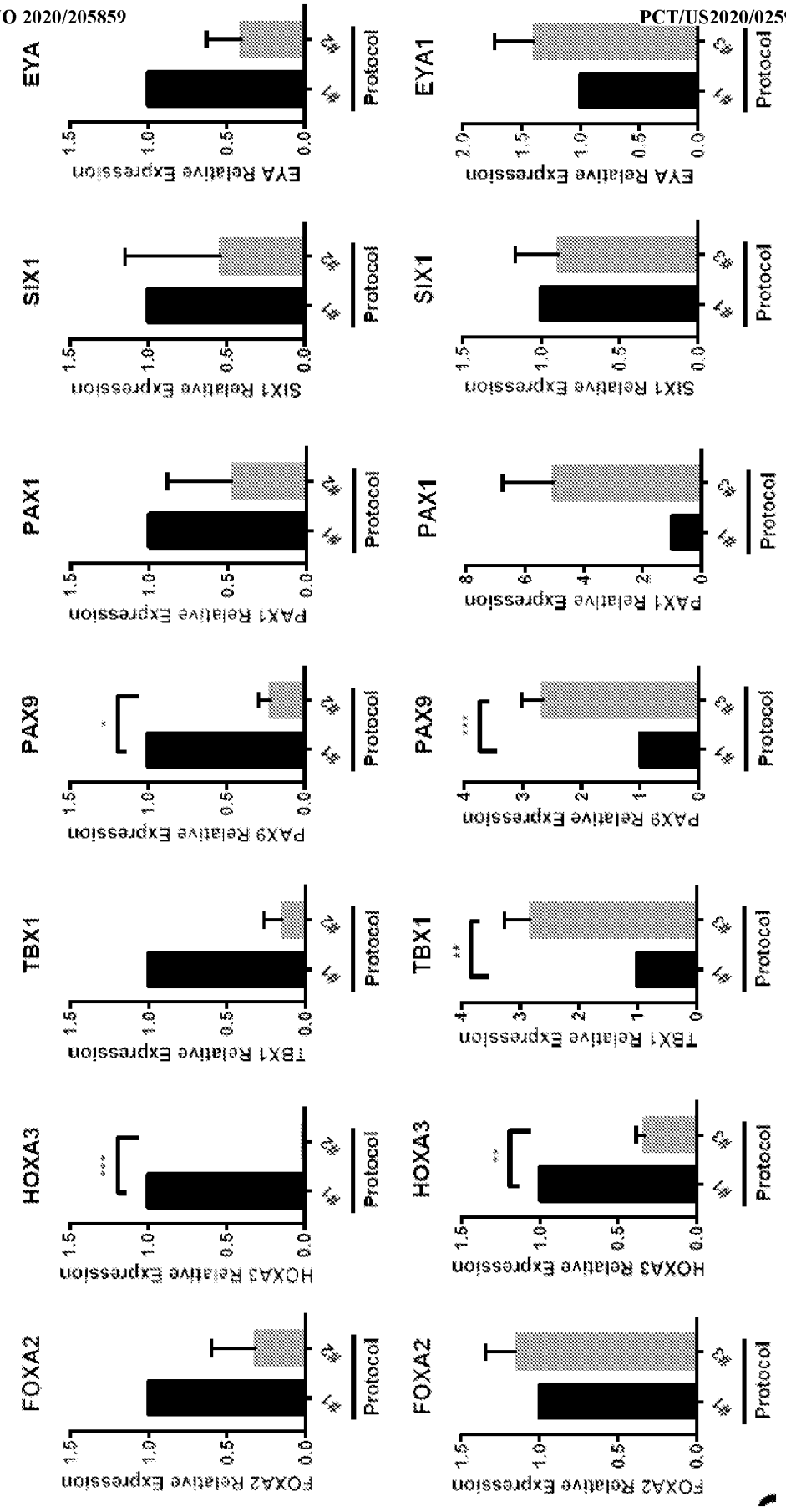

FOXA2
HOXA3
TBX1
PAX9
PAX1
SIX1
EYA
EYA1
FOXA2 Relative Expression
HOXA3 Relative Expression
TBX1 Relative Expression
PAX9 Relative Expression
PAX1 Relative Expression
SIX1 Relative Expression
EYA Relative Expression
4T
4S
Protocol

Figure 1E

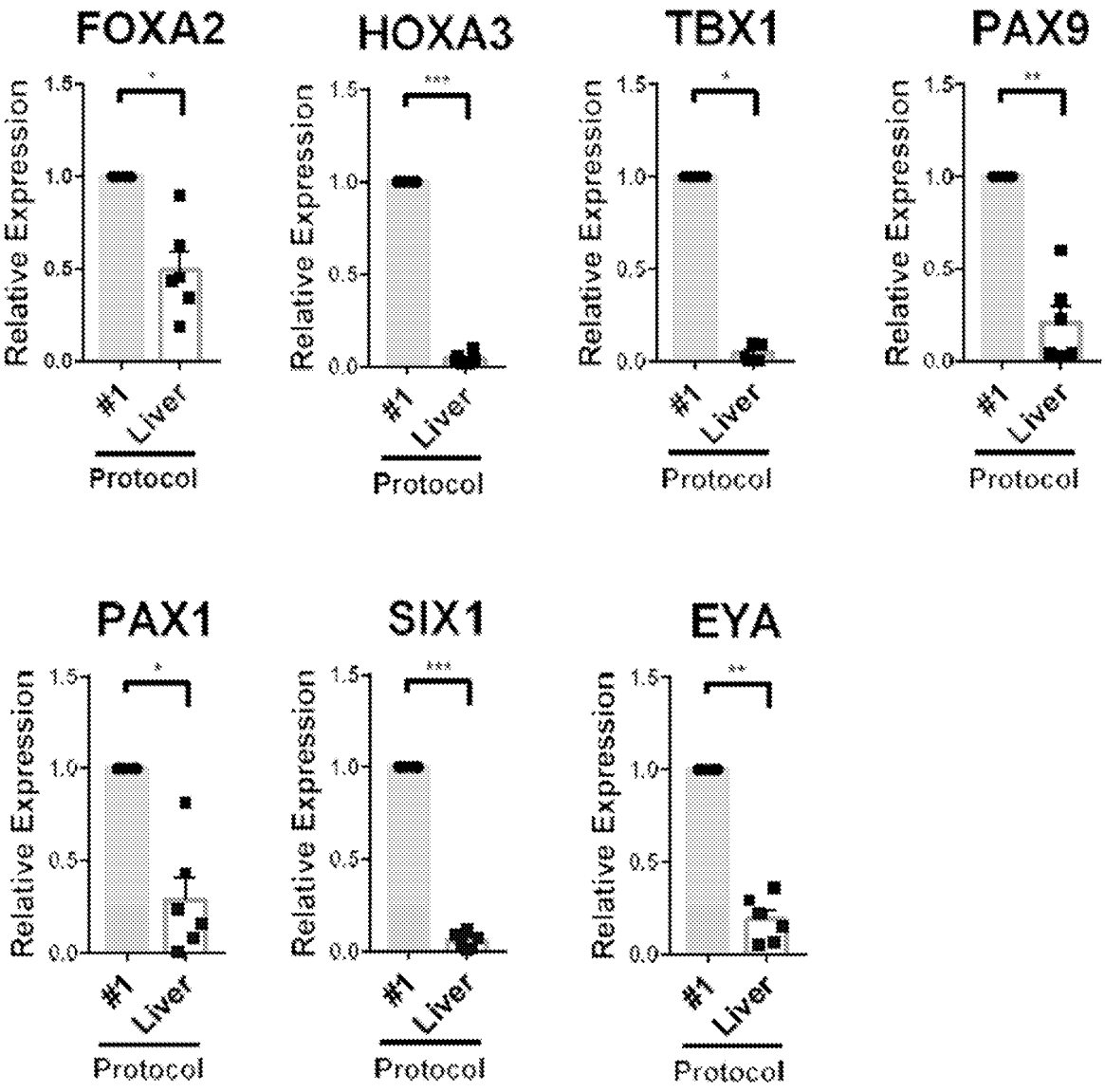

FOXA2
HOXA3
TBX1
PAX9
PAX1
SIX1
EYA
Relative Expression
0.0
0.5
1.0
1.5
#1
Liver
Protocol
*
***
**

Figure 1F

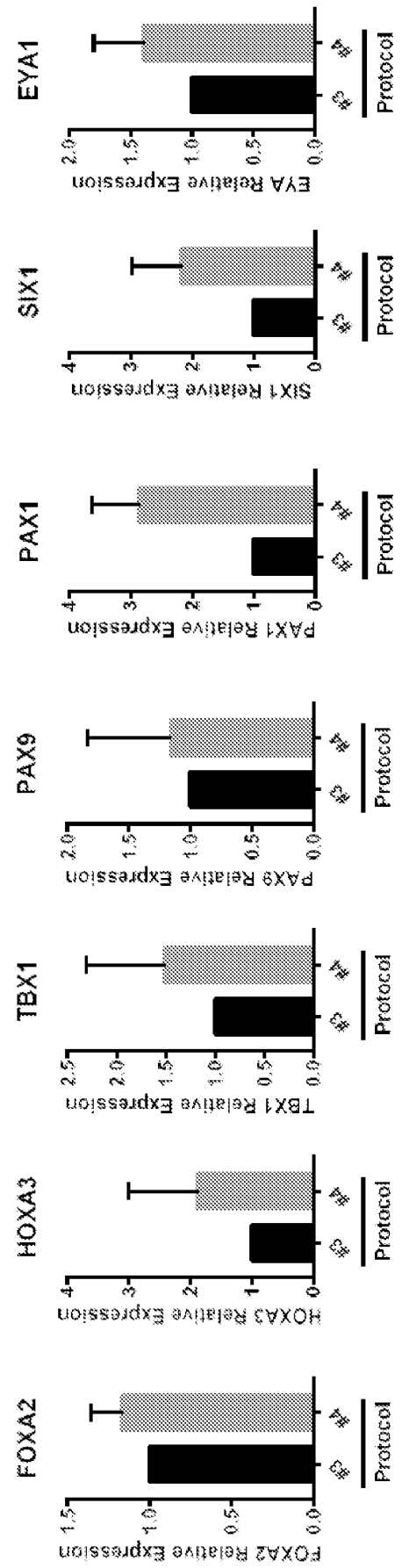

FOXA2
FOXA2 Relative Expression
HOXA3
HOXA3 Relative Expression
TBX1
TBX1 Relative Expression
PAX9
PAX9 Relative Expression
PAX1
PAX1 Relative Expression
SIX1
SIX1 Relative Expression
EYA1
EYA Relative Expression
Protocol
#3
#4

Figure 2

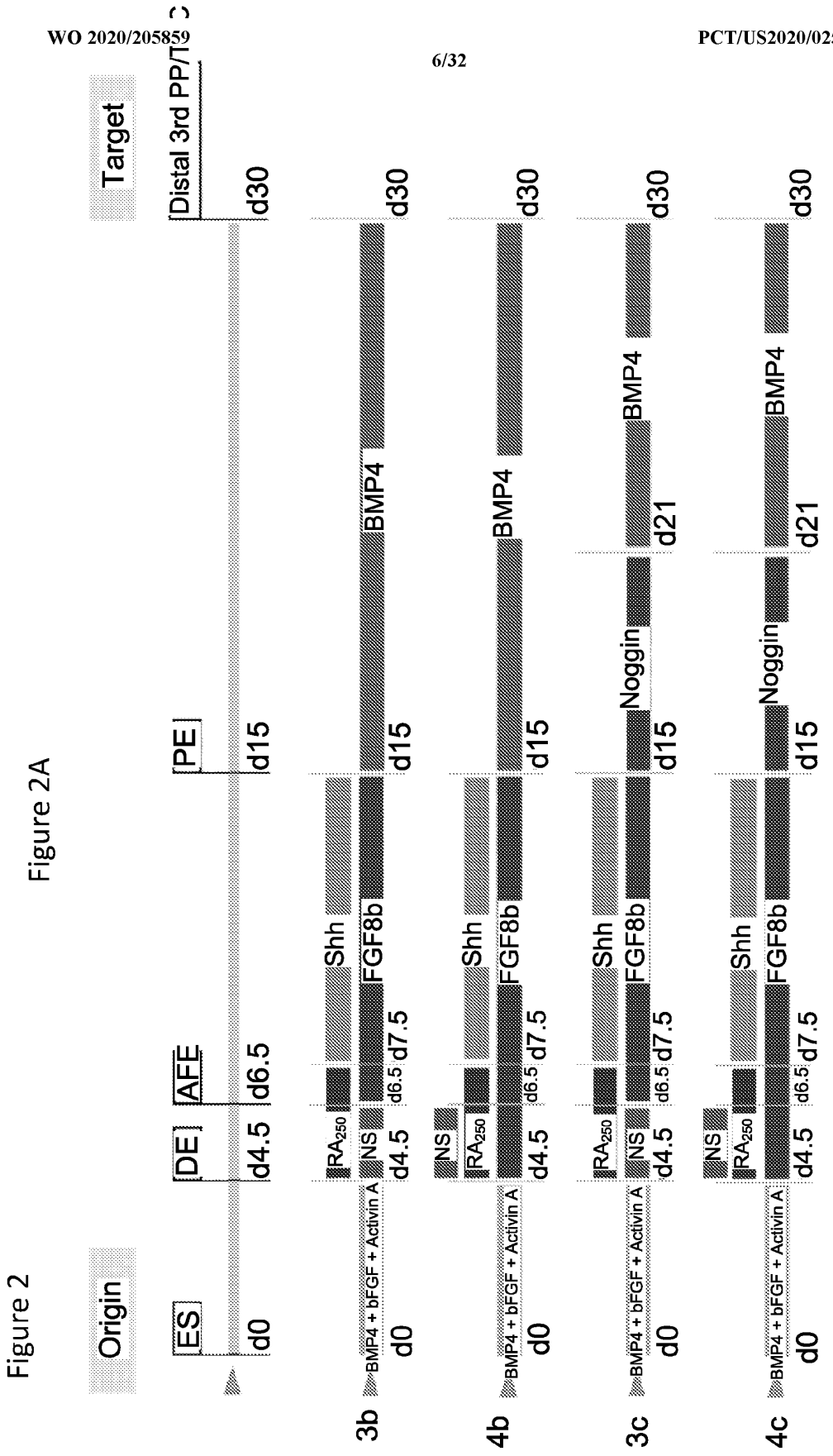


Figure 2A

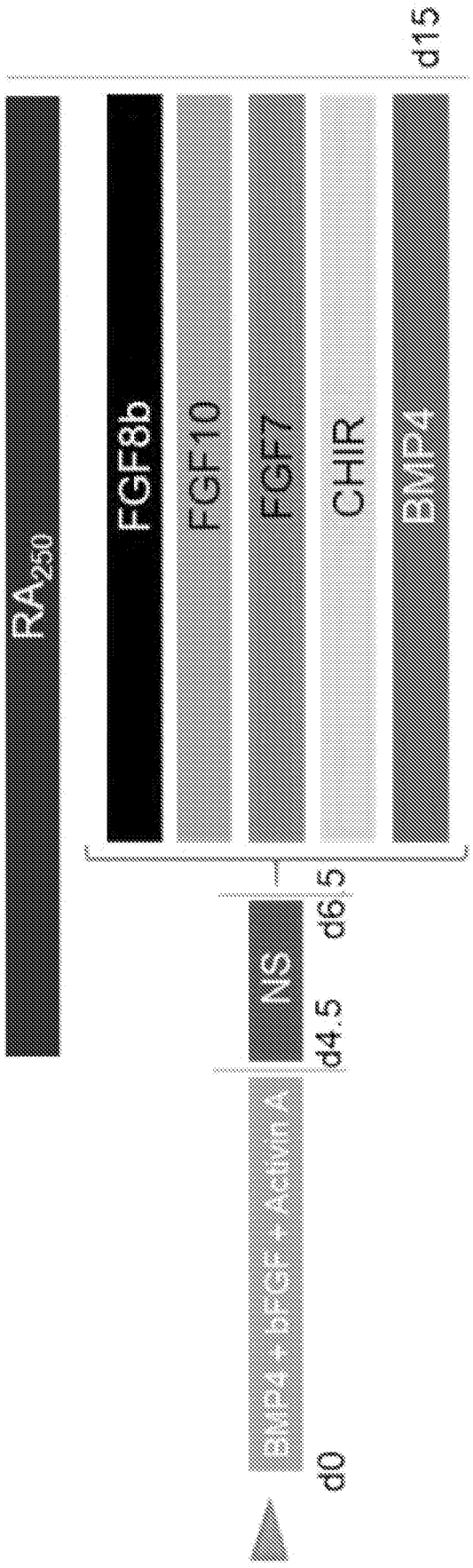

d15
RA250
FGF8b
FGF10
FGF7
CHIR
BMP4
d6.5
MS
d4.5
BMP4 + bFGF + Activin A
d0

Figure 2B

Figure 2C

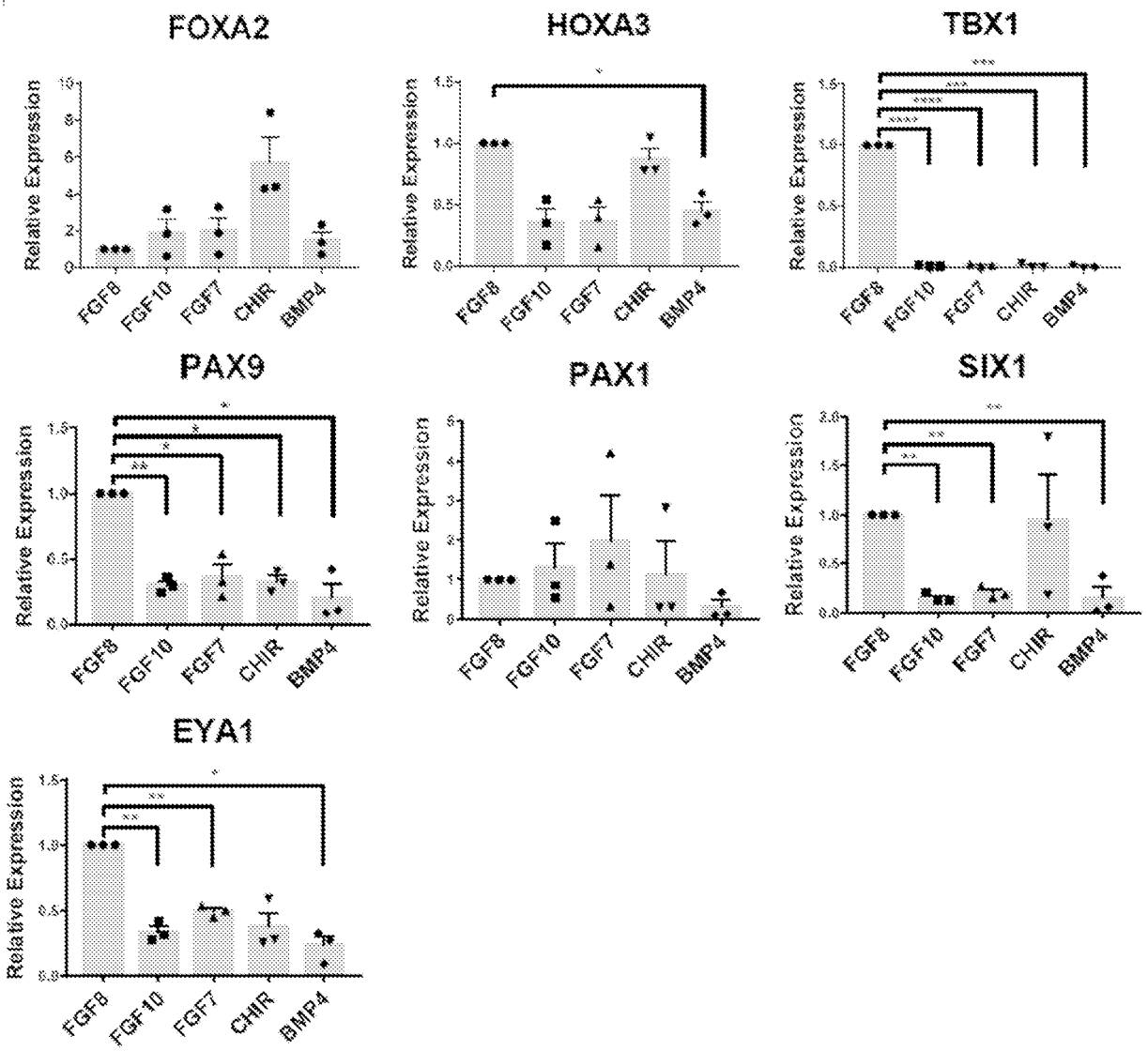

FOXA2
HOXA3
TBX1
PAX9
PAX1
SIX1
EYA1
Relative Expression
FGF8
FGF10
FGF7
CHIR
BMP4

Figure 2E

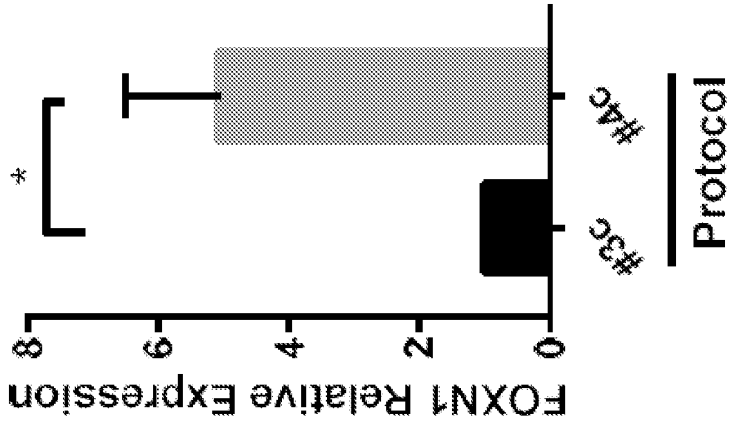


Figure 2D

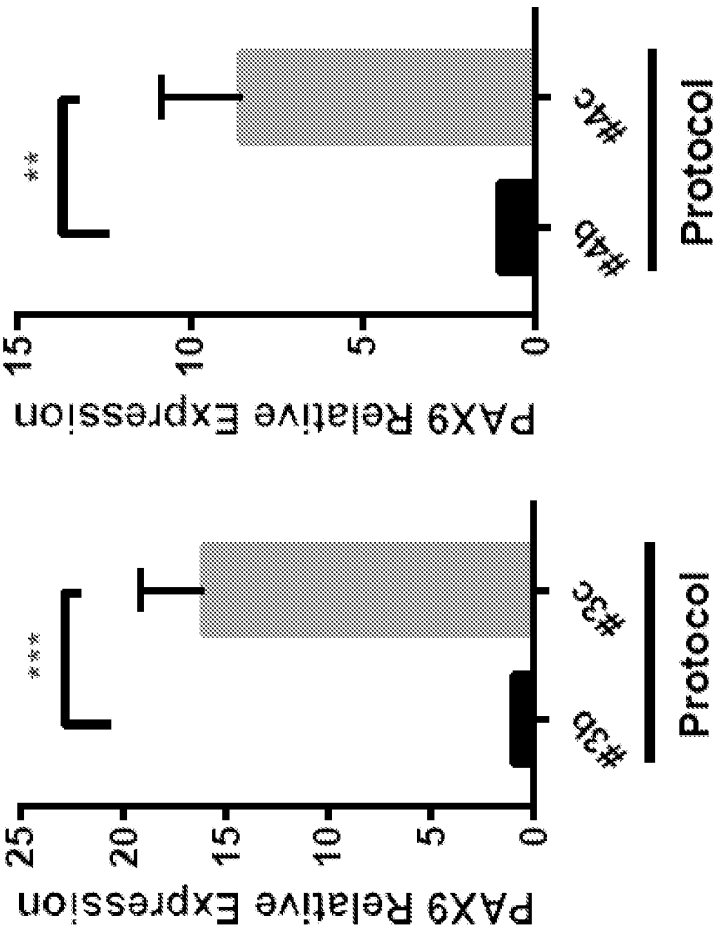


Figure 2G

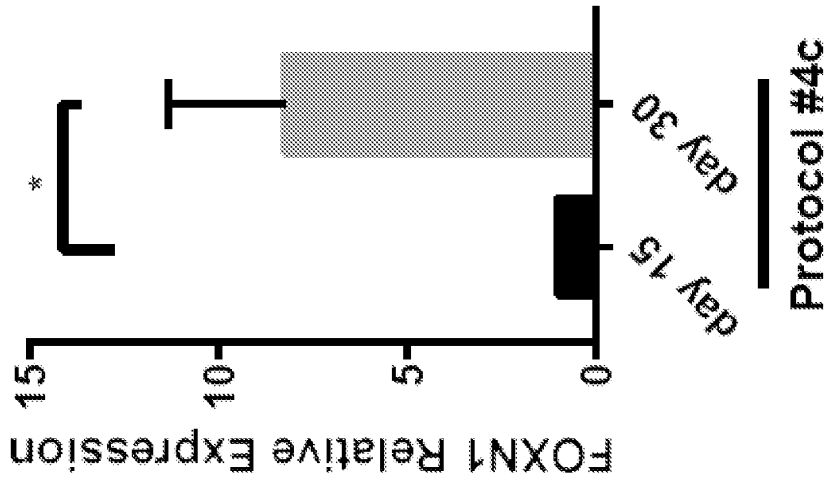


Figure 2F

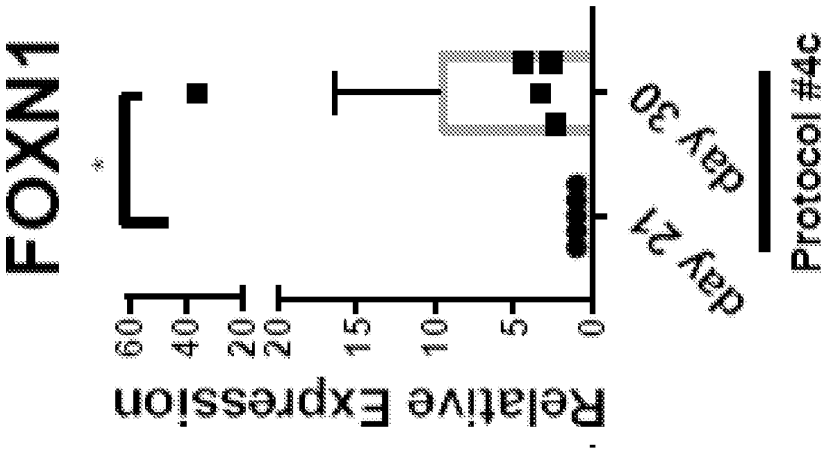


Figure 3

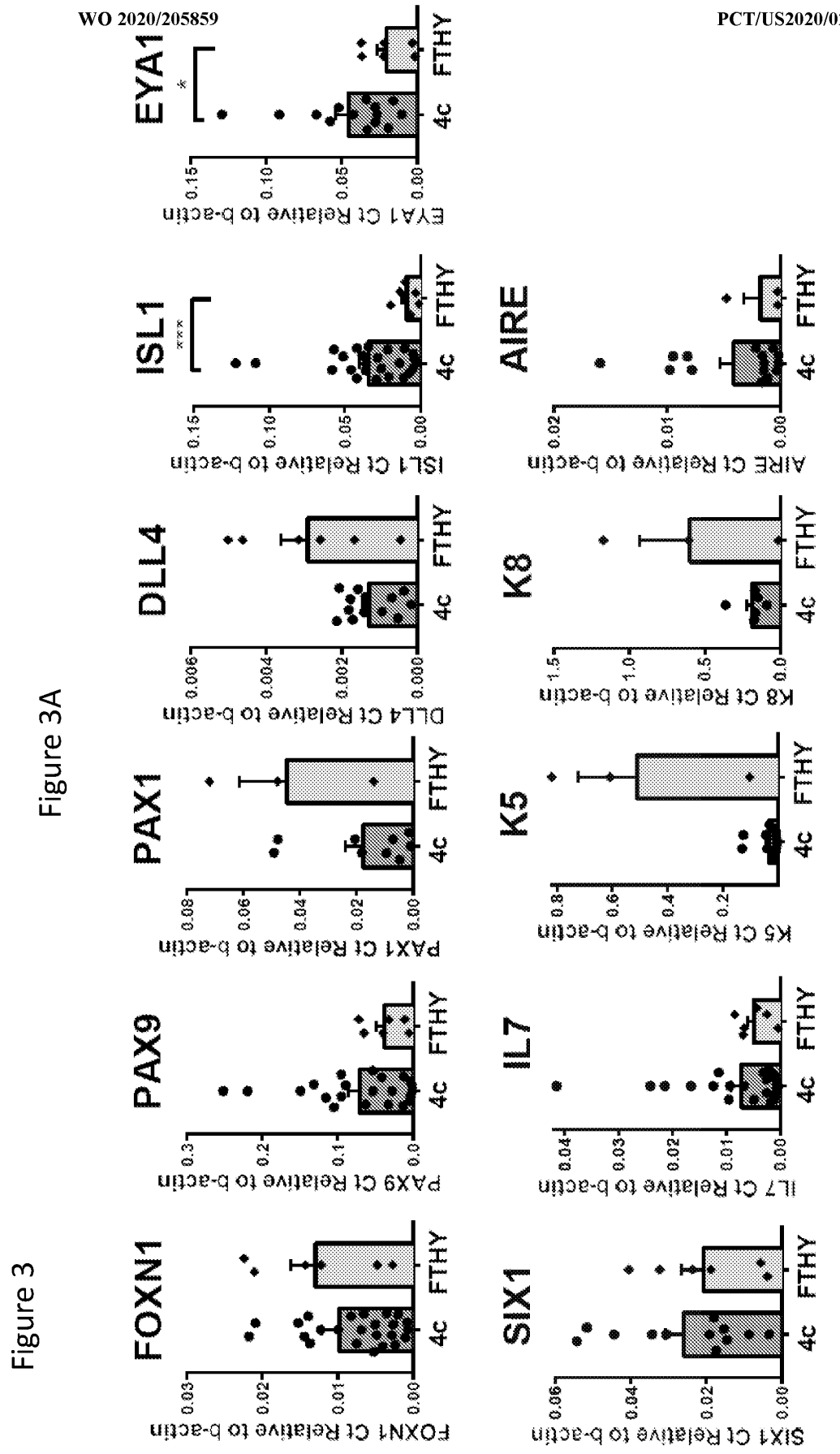


Figure 3A

Figure 3B

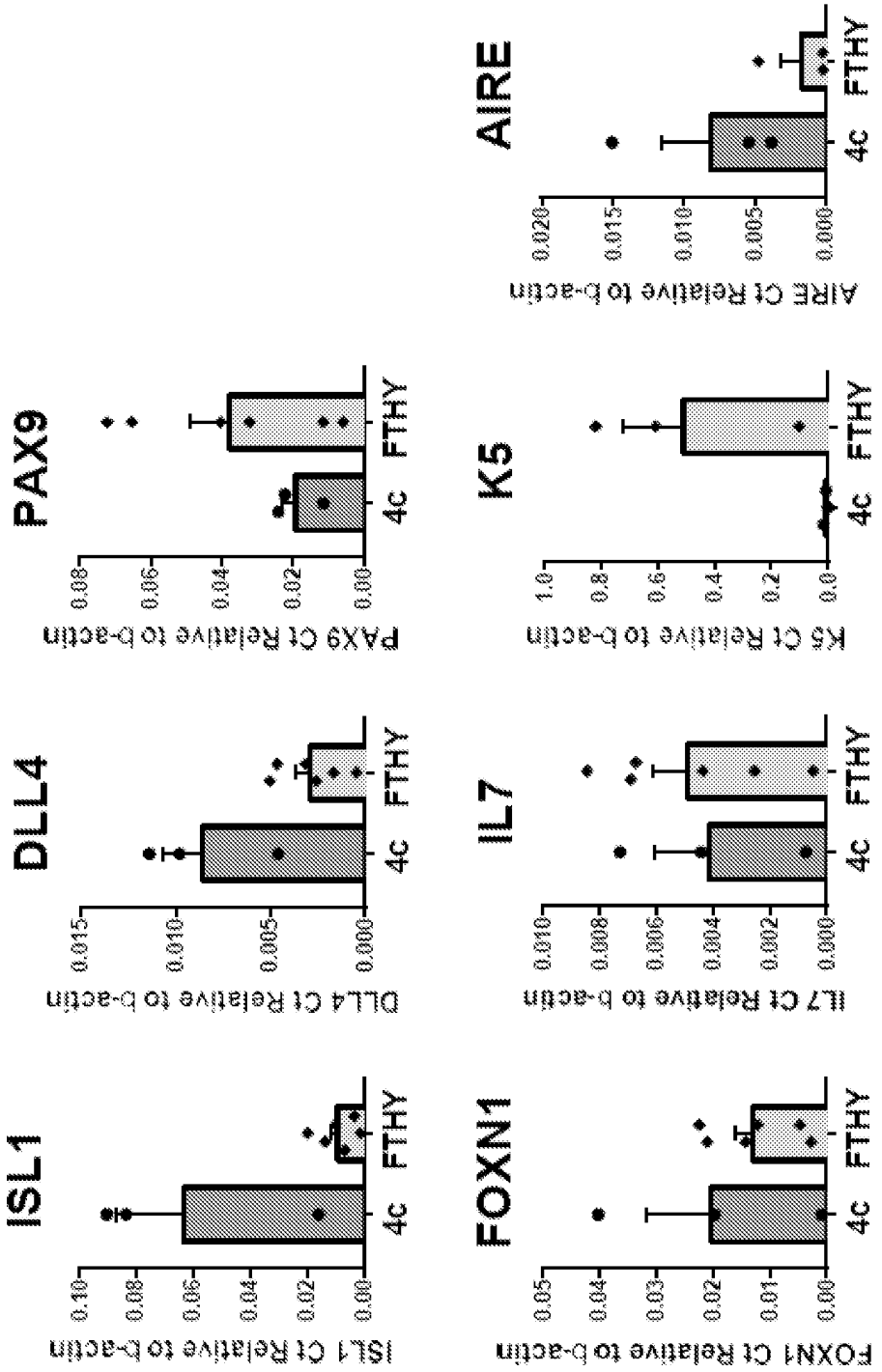

ISL1
ISL1 Ct Relative to b-actin
0.10
0.08
0.06
0.04
0.02
0.00
4c
FTHY
DLL4
DLL4 Ct Relative to b-actin
0.015
0.010
0.005
0.000
PAX9
PAX9 Ct Relative to b-actin
0.08
0.06
0.04
0.02
0.00
FOXN1
FOXN1 Ct Relative to b-actin
0.05
0.04
0.03
0.02
0.01
0.00
IL7
IL7 Ct Relative to b-actin
0.010
0.008
0.006
0.004
0.002
0.000
K5
K5 Ct Relative to b-actin
1.0
0.8
0.6
0.4
0.2
0.0
AIRE
AIRE Ct Relative to b-actin
0.020
0.015
0.010
0.005
0.000

Figure 3C

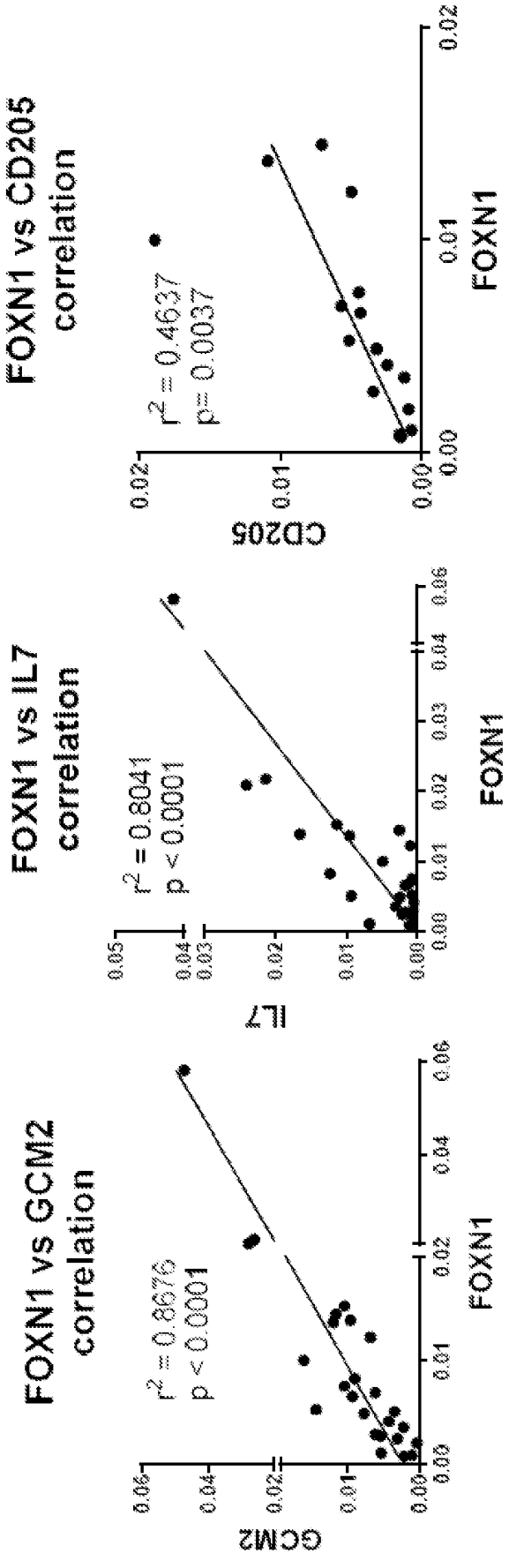

FOXN1 vs CD205 correlation
r² = 0.4637
p= 0.0037
CD205
FOXN1
FOXN1 vs IL7 correlation
r² = 0.8041
p < 0.0001
IL7
FOXN1
FOXN1 vs GCM2 correlation
r² = 0.8676
p < 0.0001
GCM2
FOXN1

Figure 4

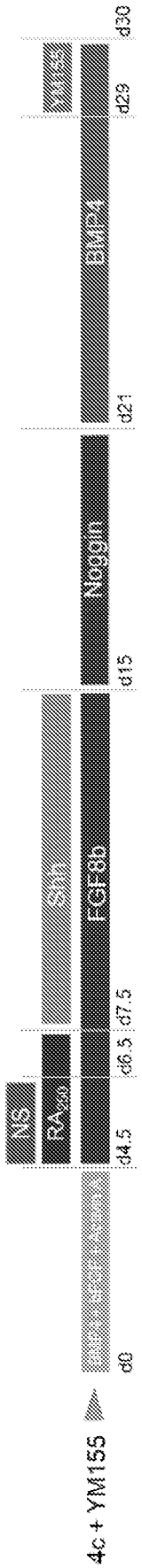


Figure 4A

Figure 4C

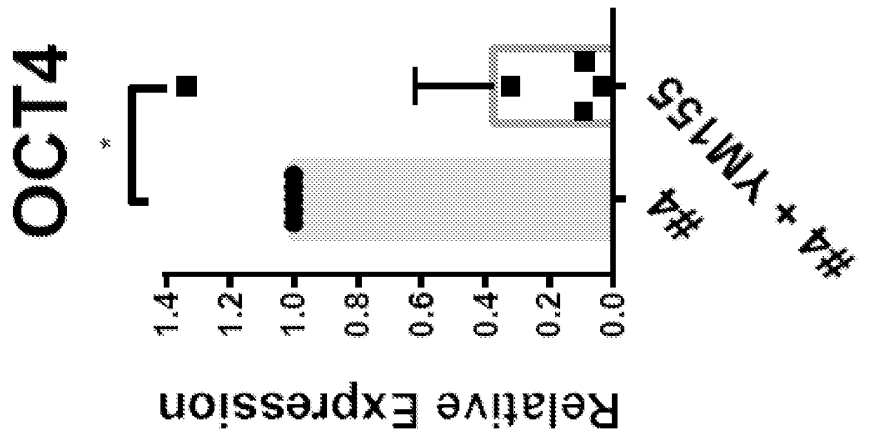


Figure 4B

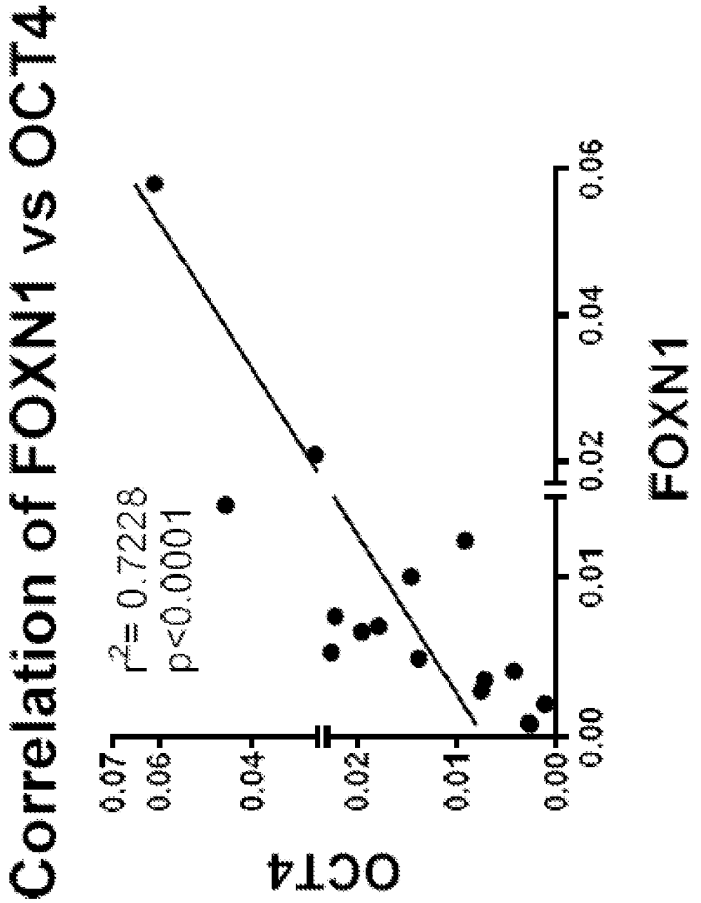


Figure 4D

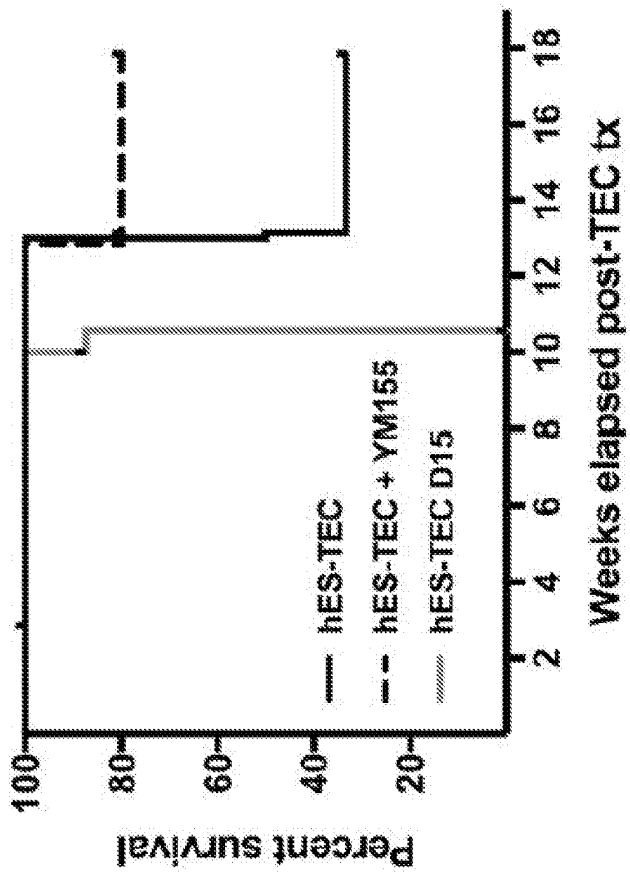

Percent survival
100
80
60
40
20
2
4
6
8
10
12
14
16
18
Weeks elapsed post-TEC tx
hES-TEC
hES-TEC + YM155
hES-TEC D15

Figure 5A

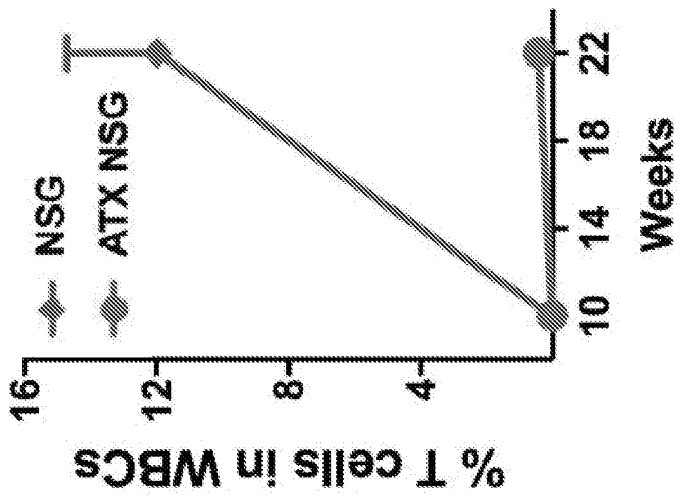


Figure 5

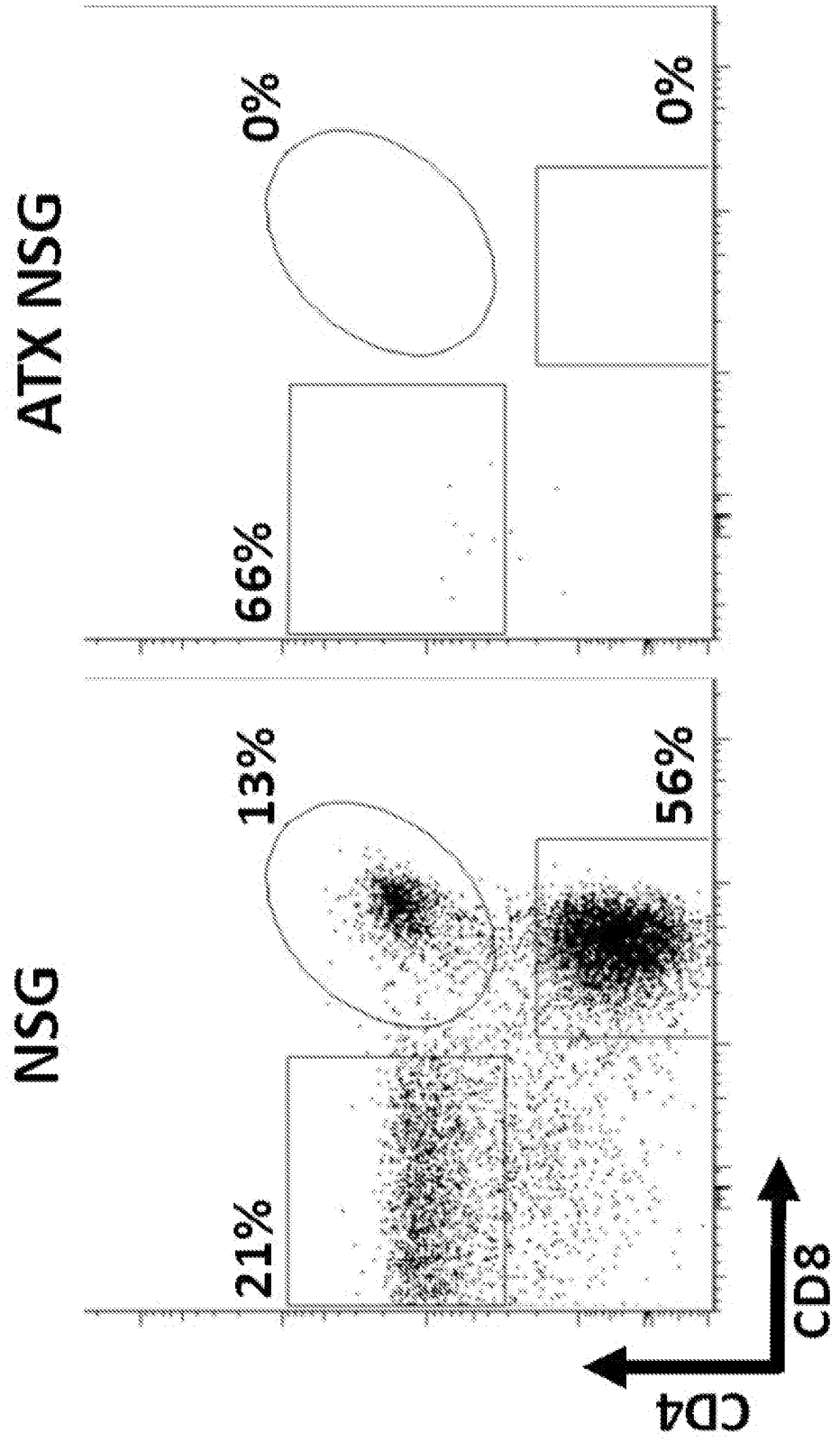


Figure 5B

Figure 5C

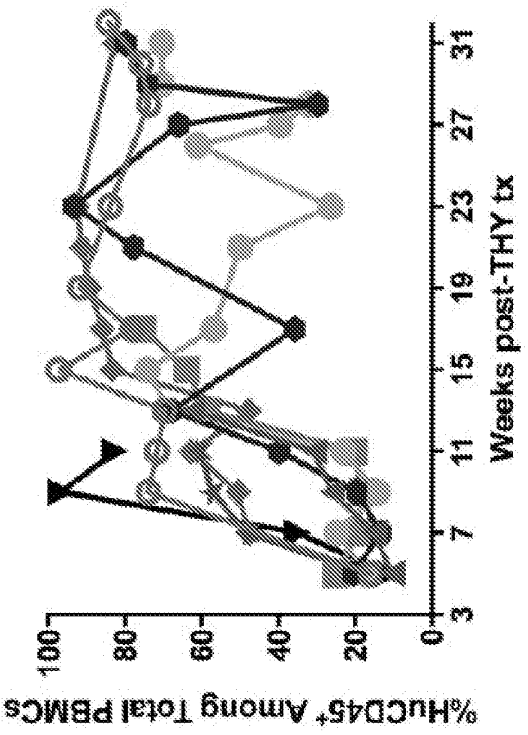


Figure 5D

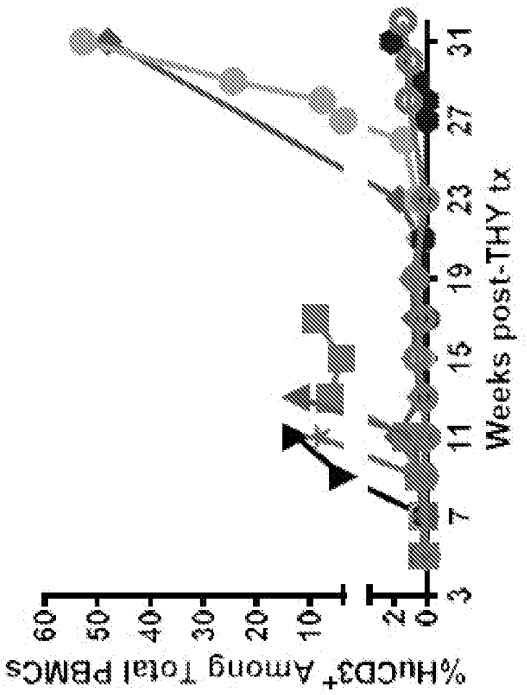


Figure 5E

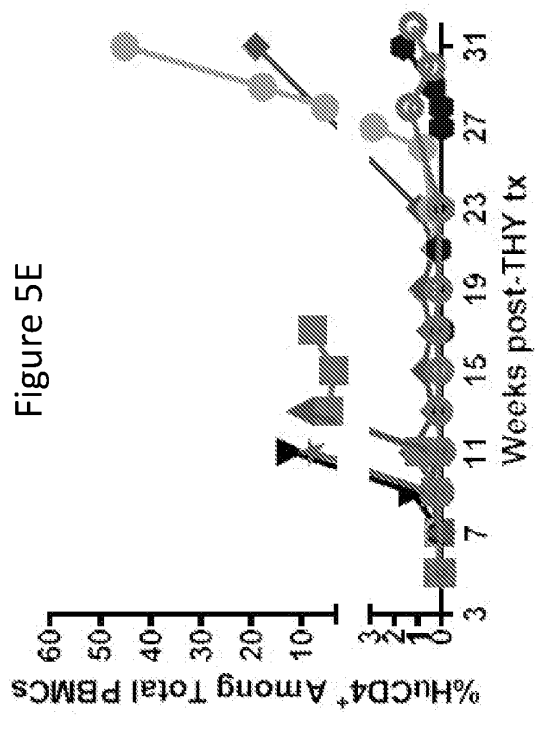


Figure 5F

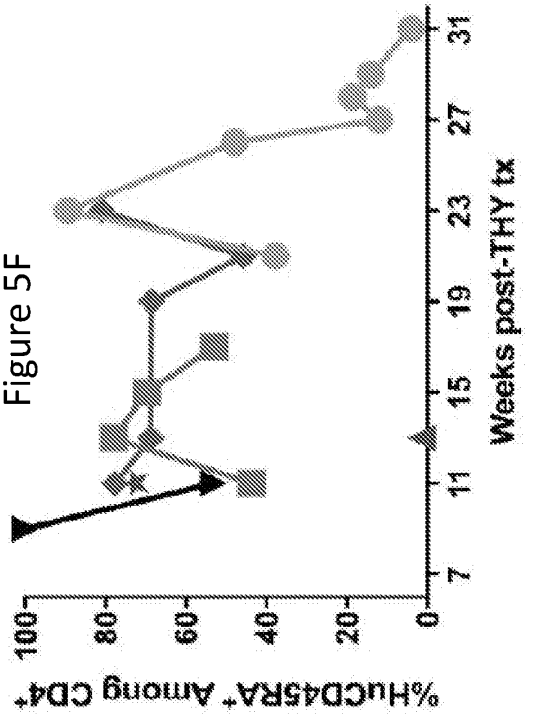


Figure 5G

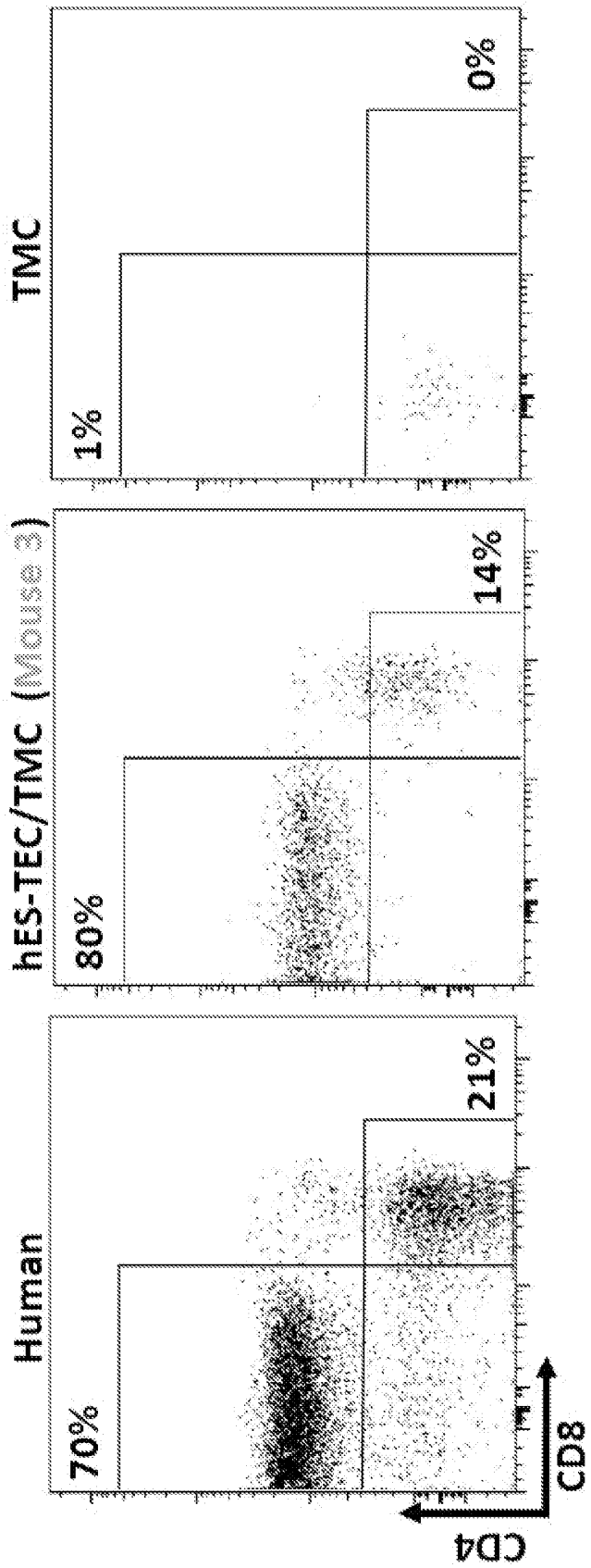


Figure 5H

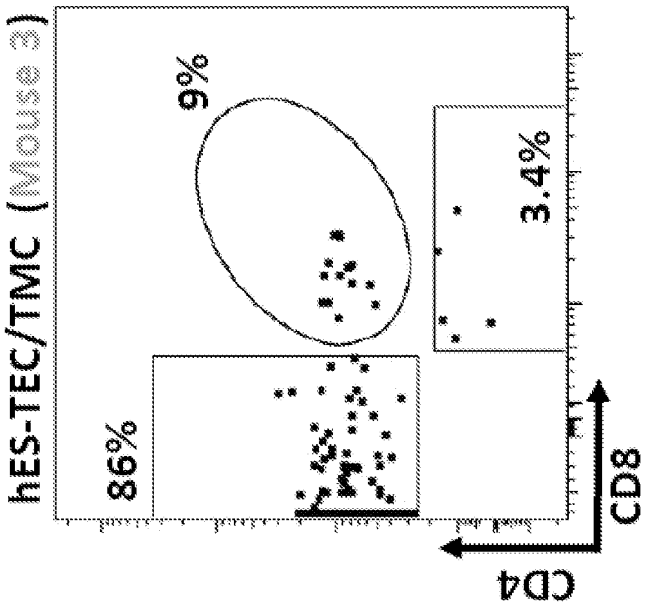


Figure 6

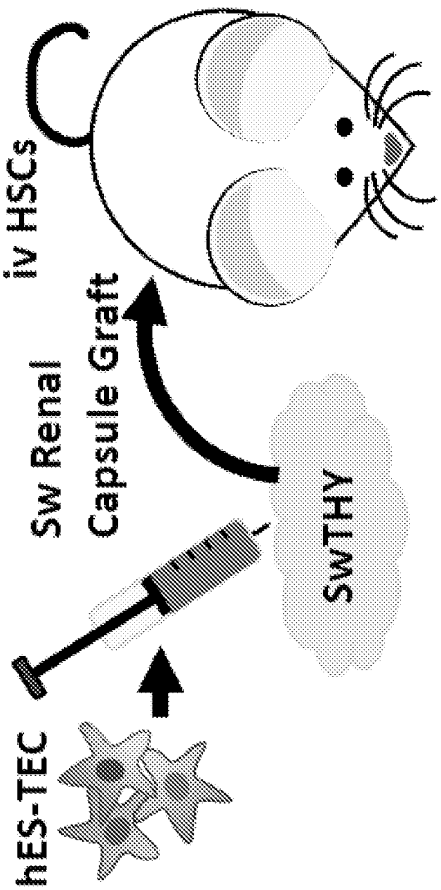


Figure 6A

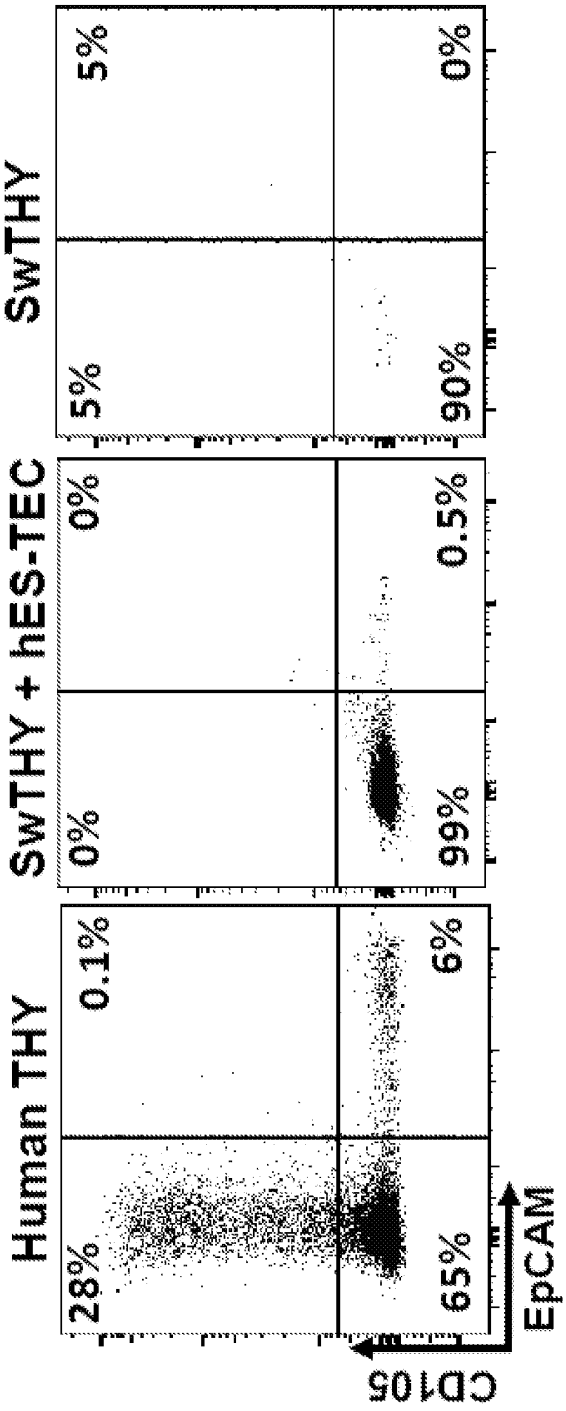


Figure 6B

Figure 6C

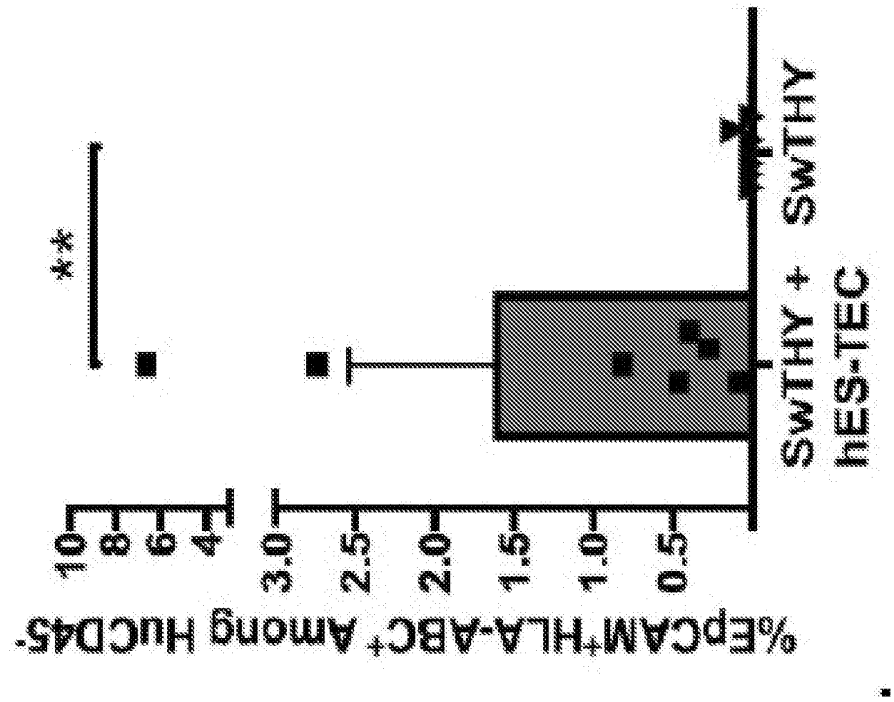

%EpCAM+HLA-ABC+ Among HuCD45-
10
8
6
4
3.0
2.5
2.0
1.5
1.0
0.5
**
SwTHY +
hES-TEC
SwTHY

Figure 6D

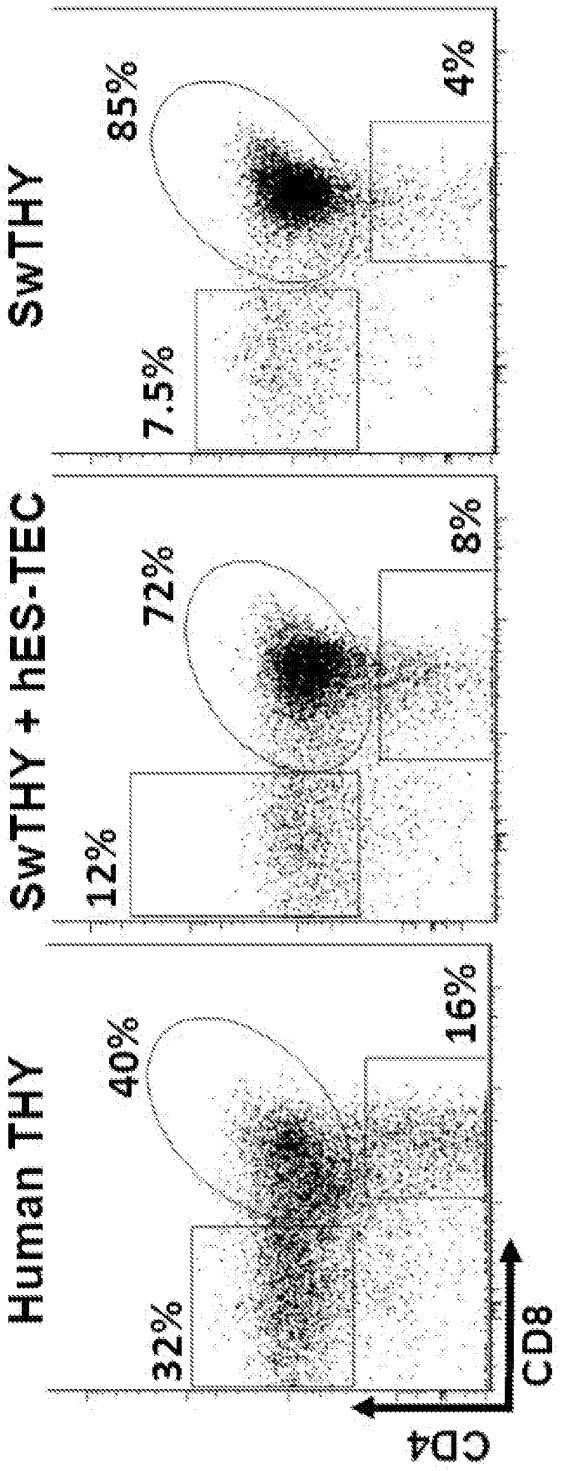


Figure 6E

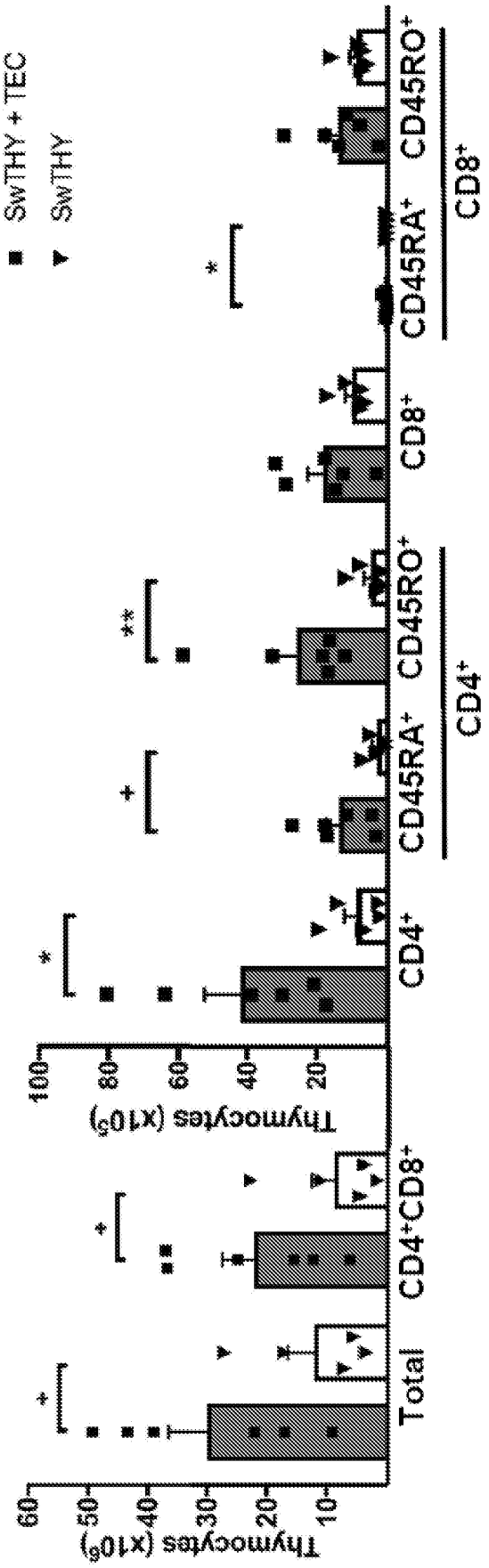

SwTHY + TEC
SwTHY
Thymocytes (x10⁵)
Total
CD4⁺CD8⁺
CD4⁺
CD45RA⁺
CD45RO⁺
CD8⁺
CD45RA⁺
CD45RO⁺
CD4⁺
CD8⁺

Figure 6G

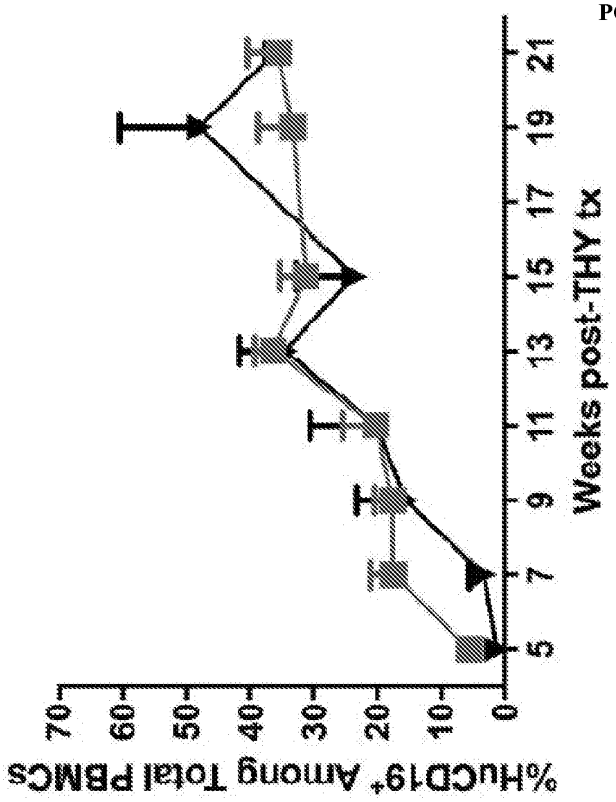


Figure 6F

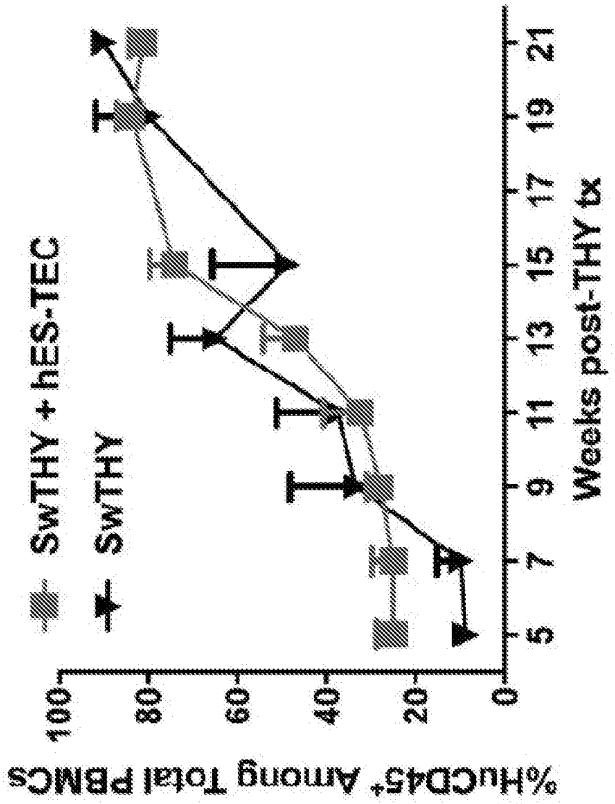


Figure 6J

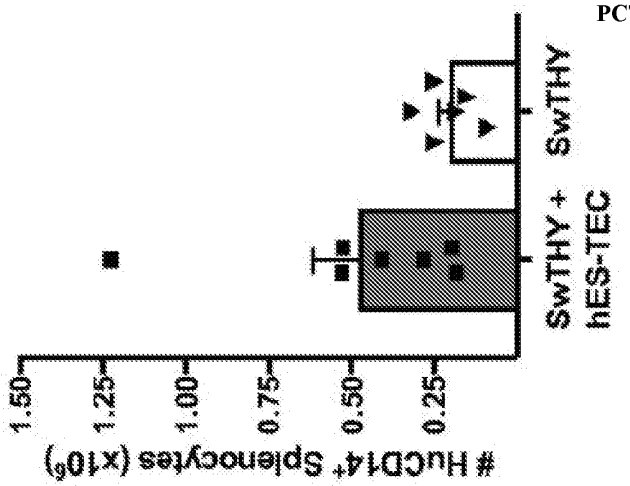


Figure 6I

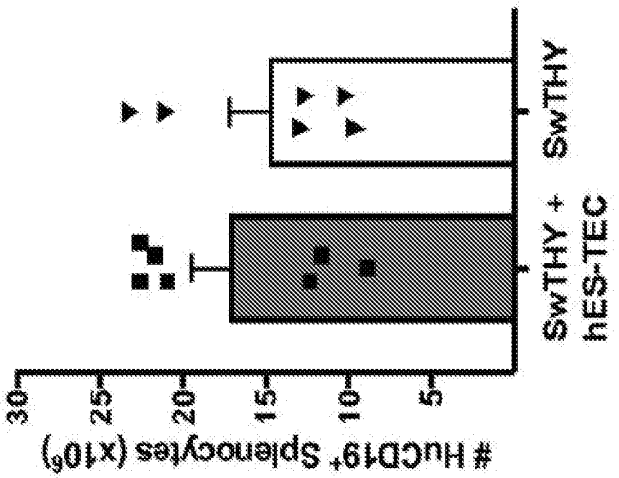


Figure 6H

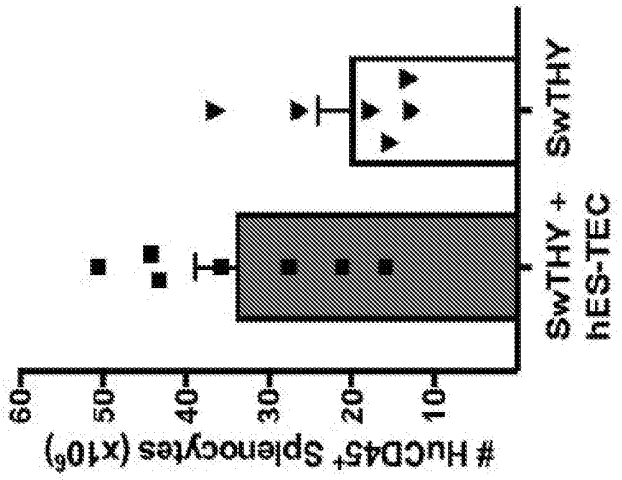


Figure 7

Figure 7A

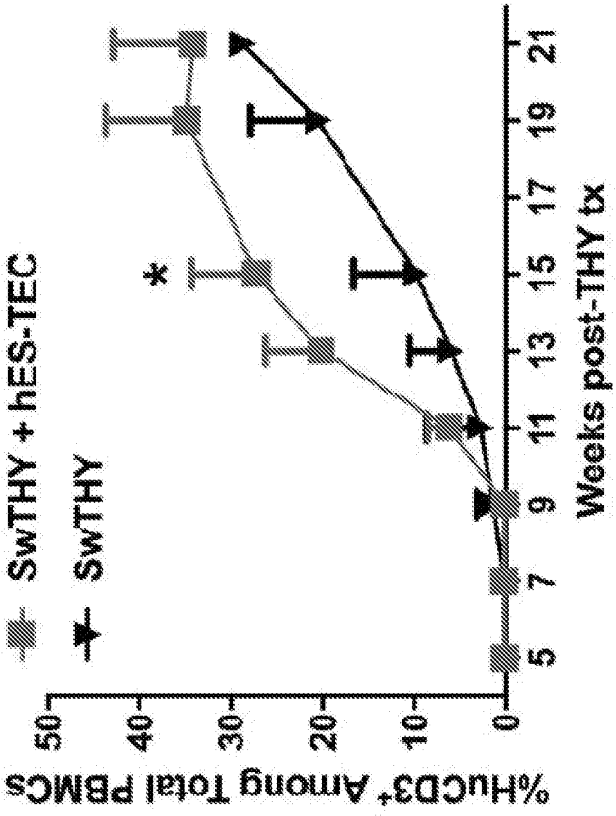


Figure 7B

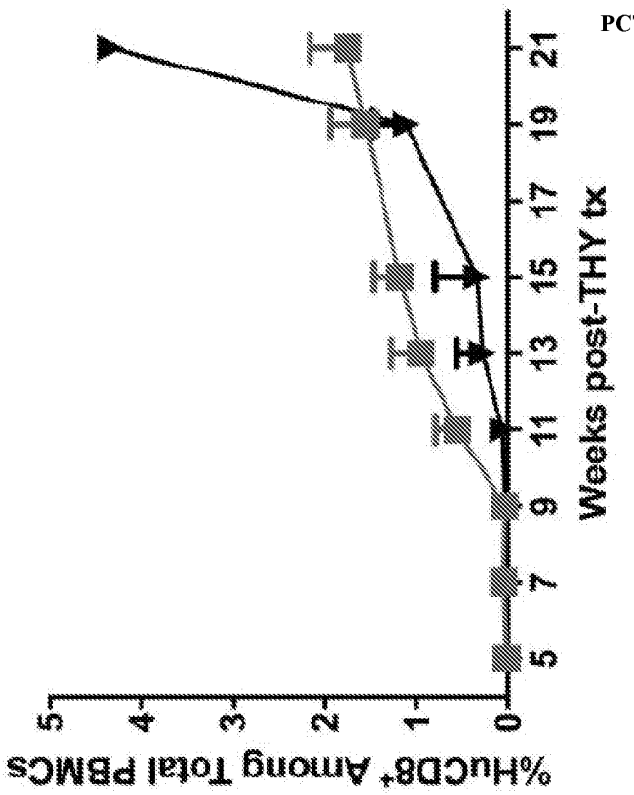


Figure 7D

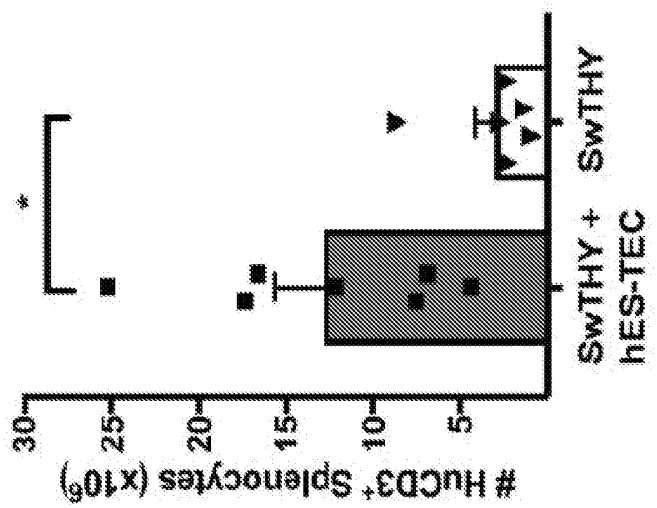


Figure 7C

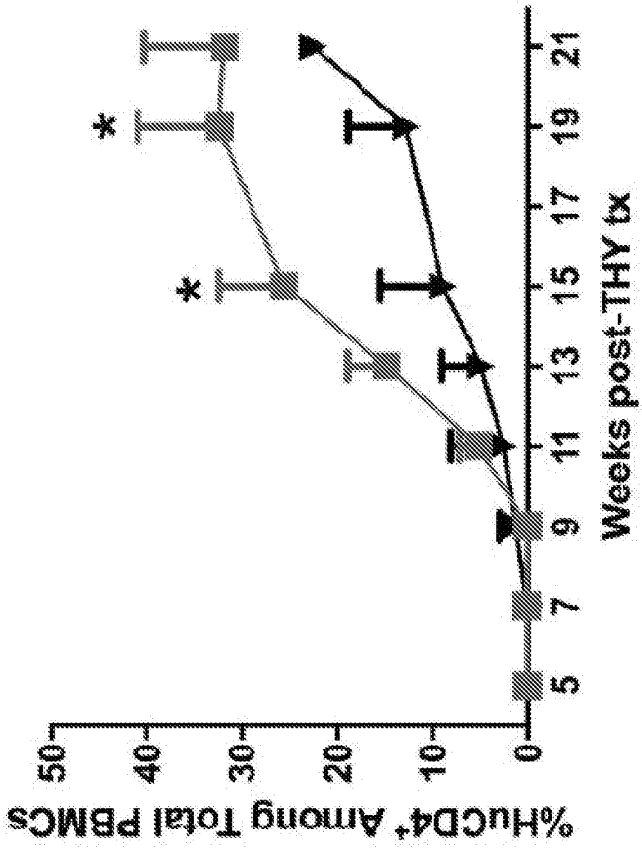


Figure 7F

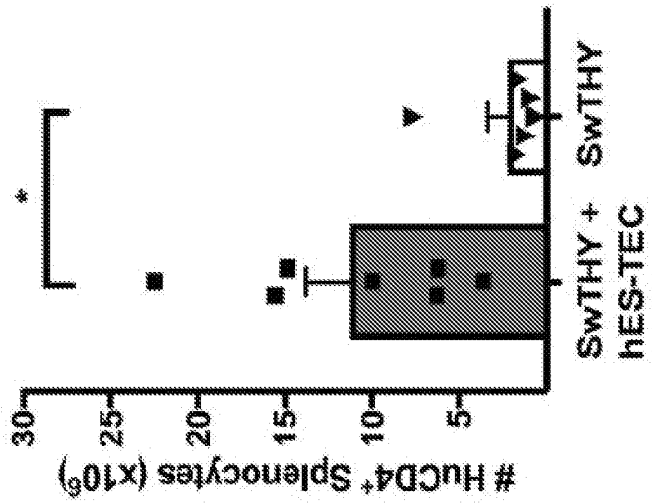


Figure 7E

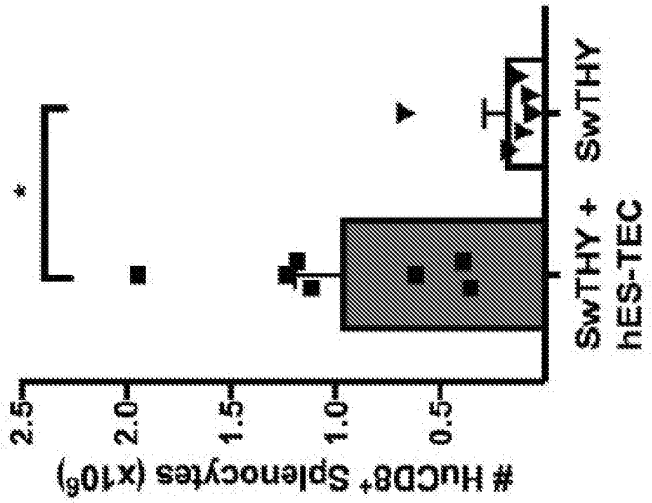


Figure 7G

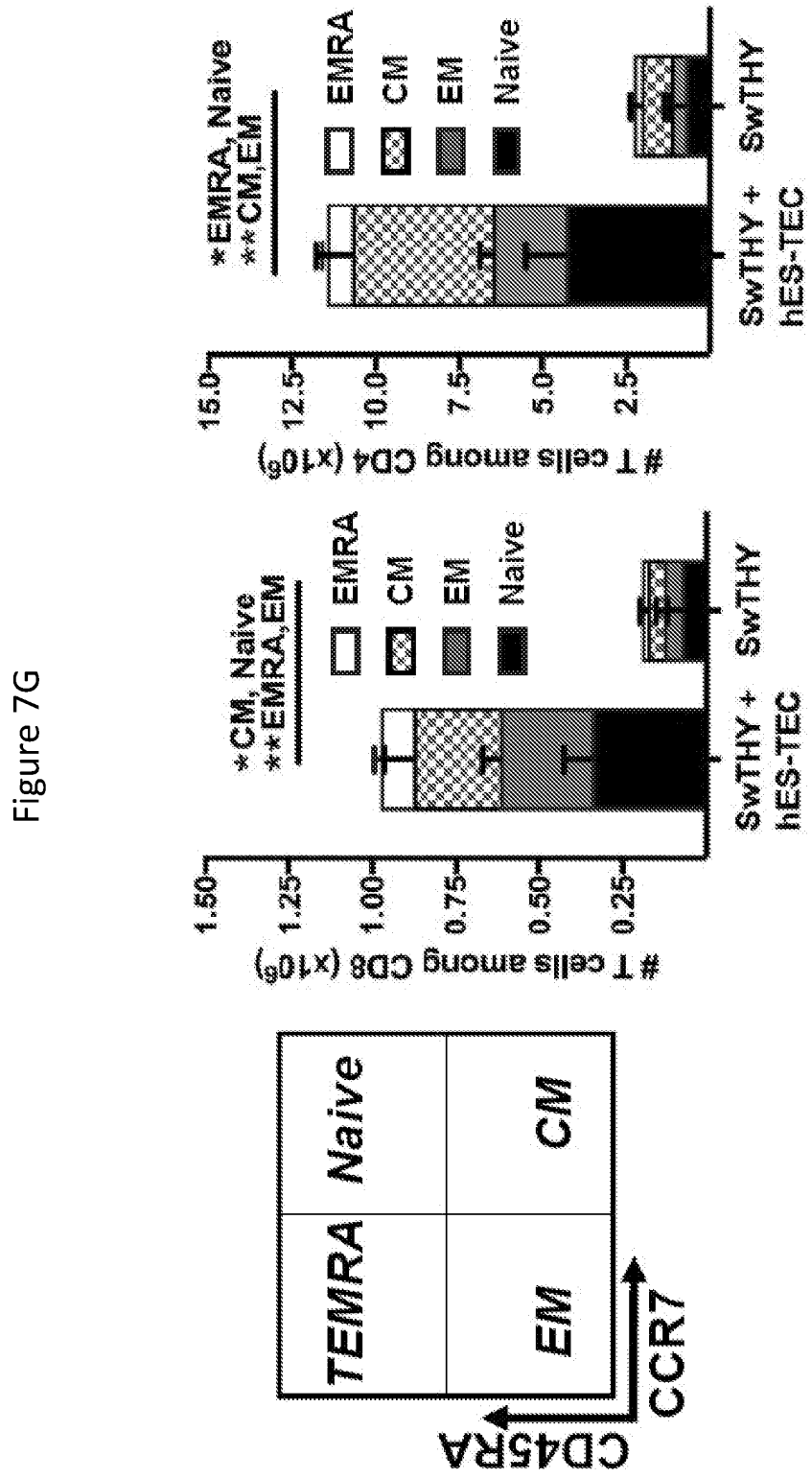
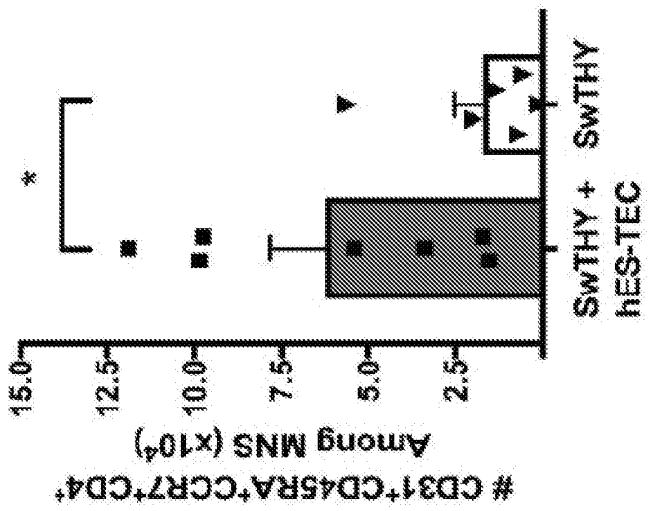

*EMRA, Naive
**CM,EM
EMRA
CM
EM
Naive
T cells among CD4 (x10^6)
15.0
12.5
10.0
7.5
5.0
2.5
SwTHY + hES-TEC
SwTHY
*CM, Naive
**EMRA,EM
EMRA
CM
EM
Naive
T cells among CD8 (x10^6)
1.50
1.25
1.00
0.75
0.50
0.25
SwTHY + hES-TEC
SwTHY
TEMRA
Naive
EM
CM
CD45RA
CCR7

Figure 7H


CD31+CD45RA+CCR7+CD4+
Among MNS (x10⁴)
15.0
12.5
10.0
7.5
5.0
2.5
*
SwTHY + hES-TEC
SwTHY