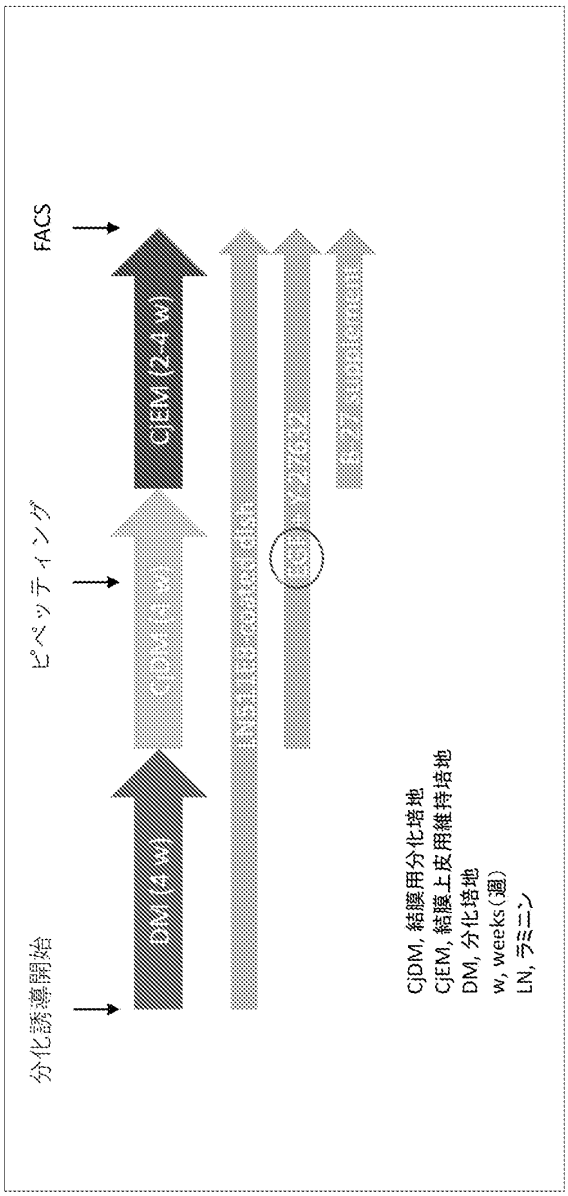
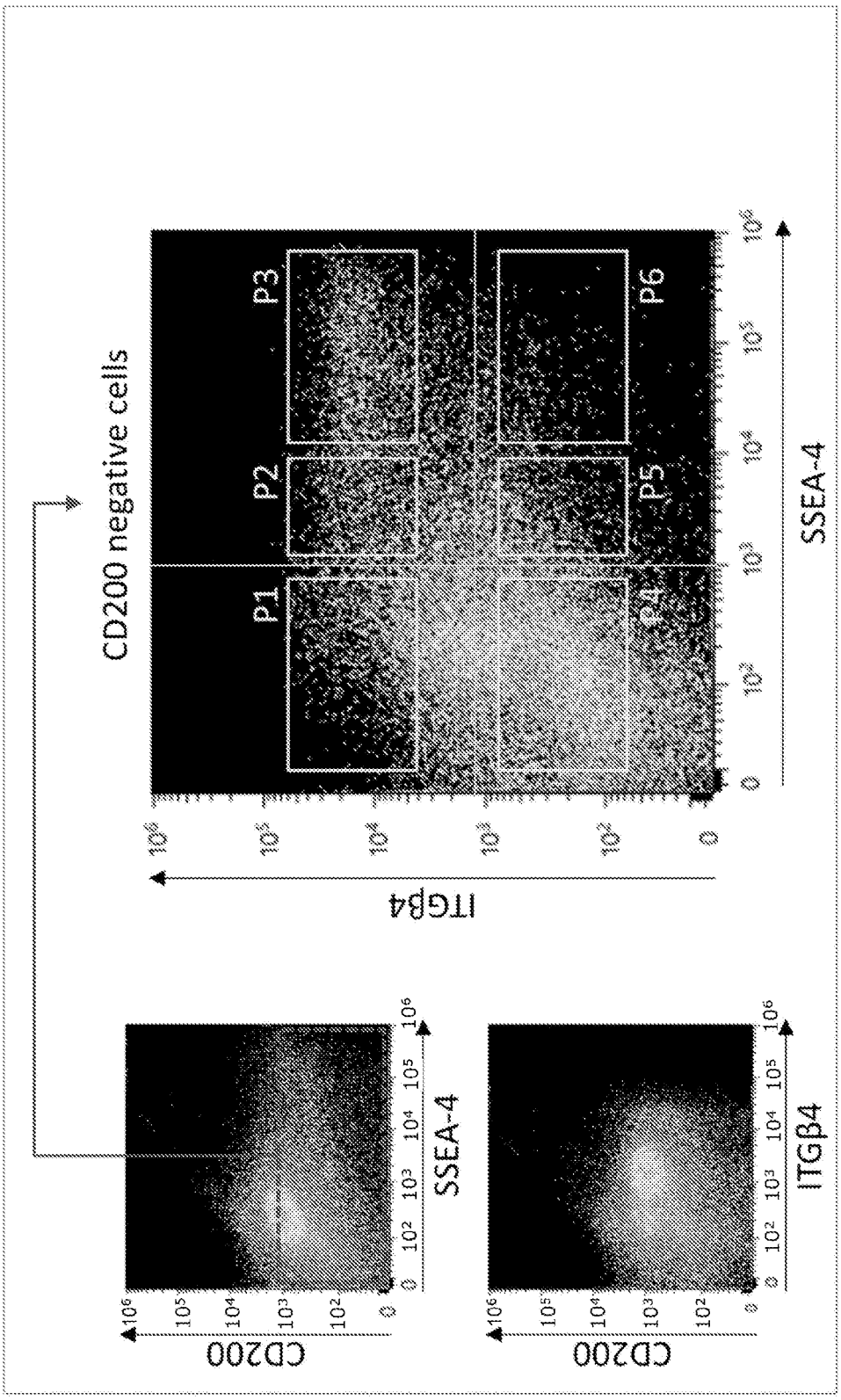
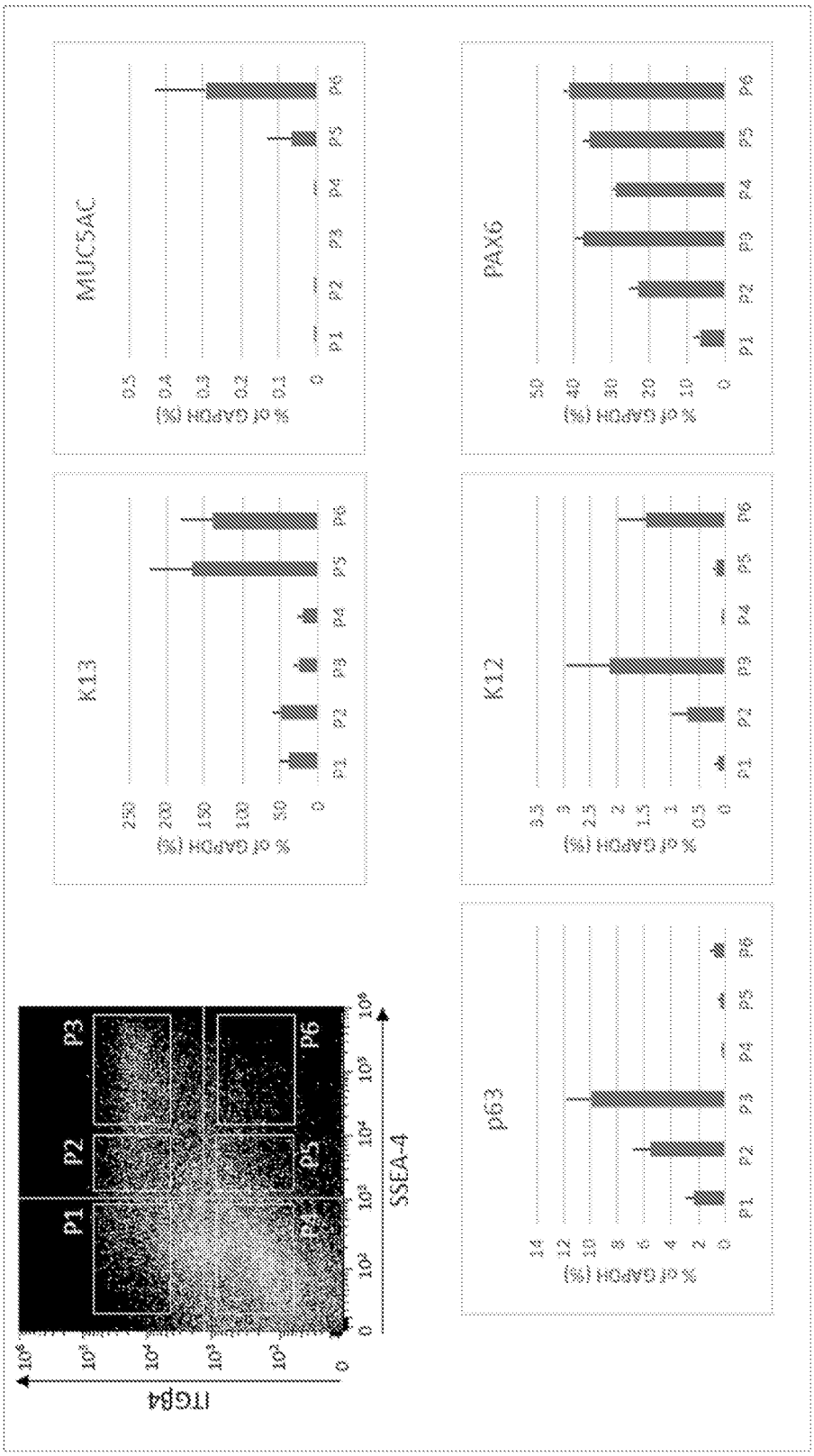
[図1]


分化誘導開始
ピペッティング
FACS
DM(4 w)
CjDM(2 w)
CjEM(2-4 w)
LN
CjDM, 結膜用分化培地
CjEM, 結膜上皮用維持培地
DM, 分化培地
w, weeks (週)
LN, ラミニン

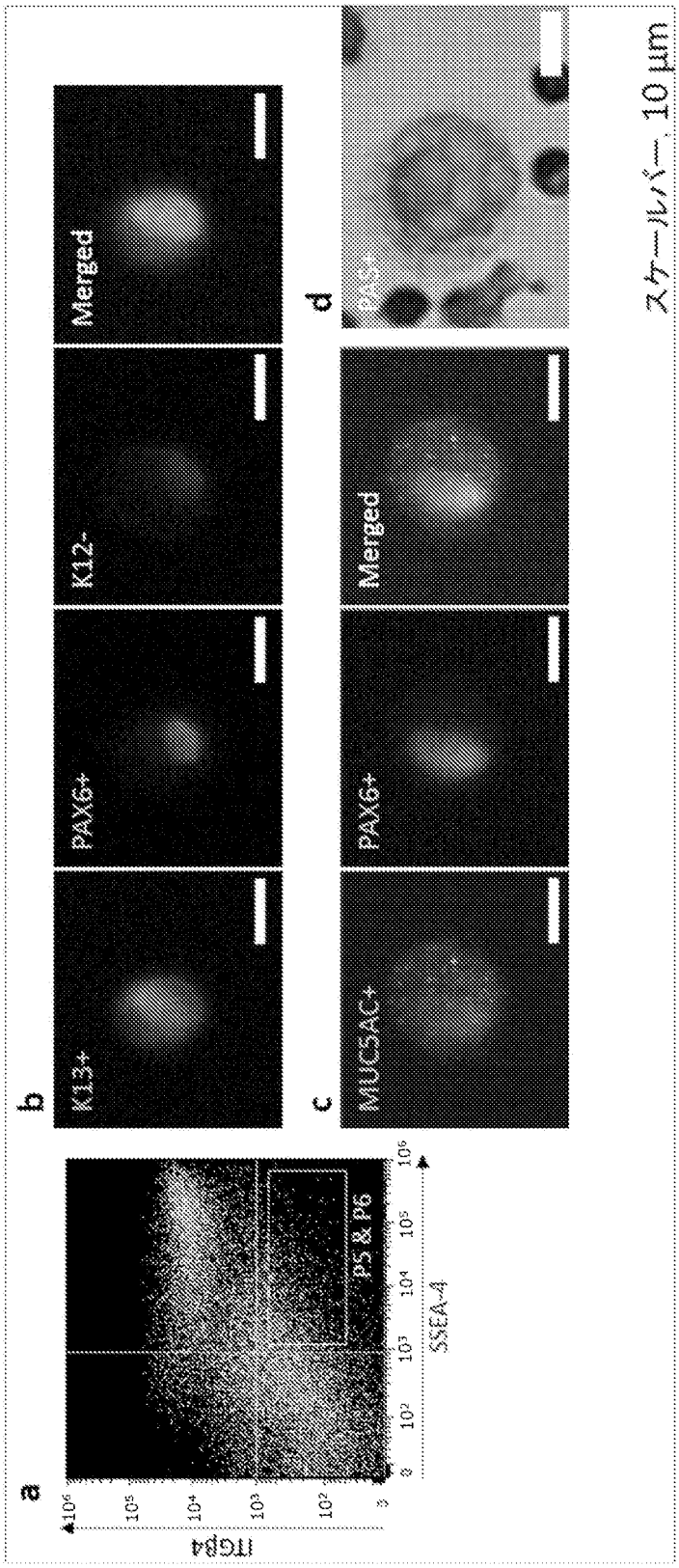
[図2]


CD200 negative cells
P1
P2
P3
P4
P5
P6
ITGβ4
SSEA-4
CD200
SSEA-4
CD200
ITGβ4

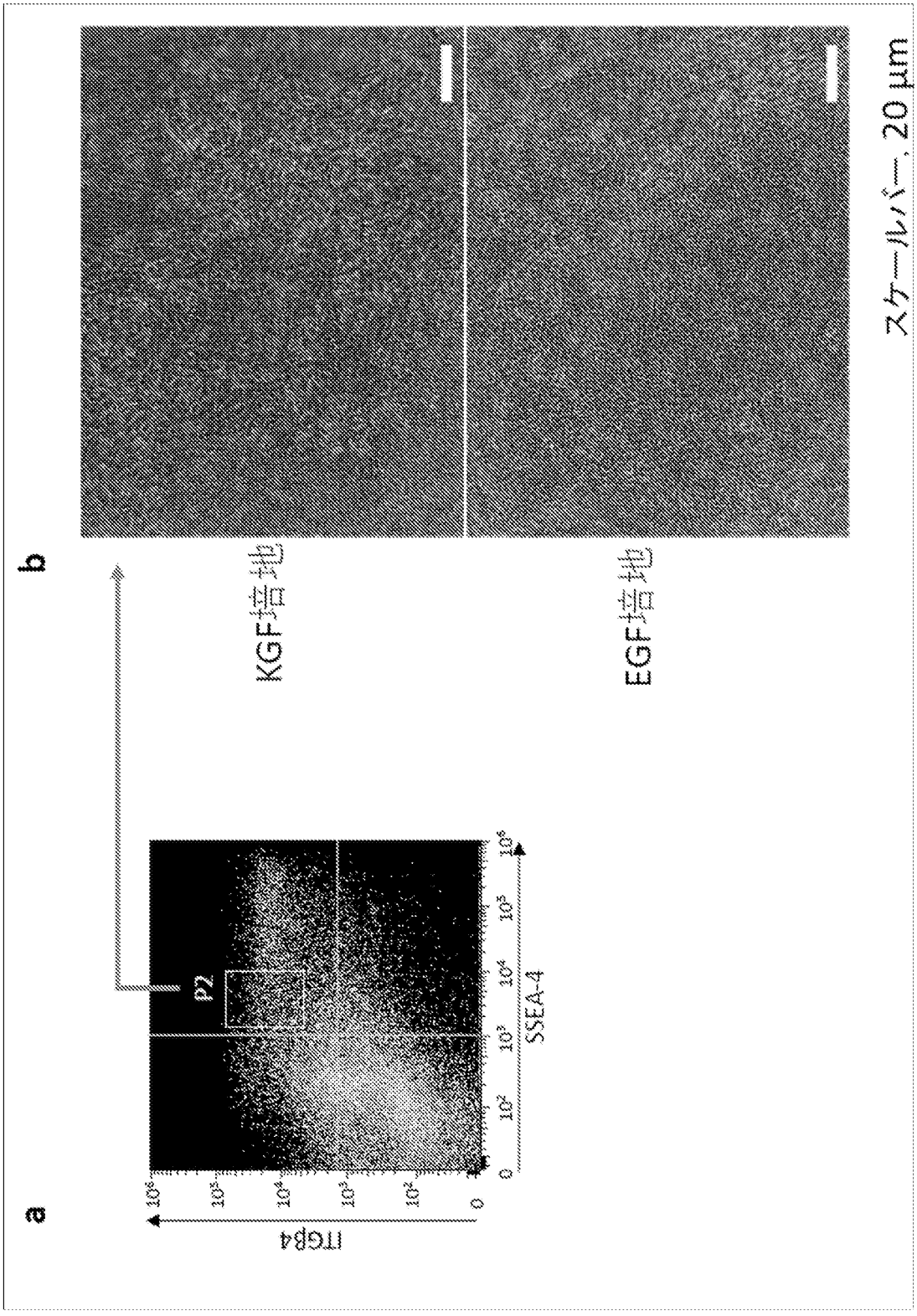
[図3]


MUC5AC
% of GAPDH (%)
PAX6
% of GAPDH (%)
K13
% of GAPDH (%)
K12
% of GAPDH (%)
pG3
% of GAPDH (%)
P1
P2
P3
P4
P5
P6
ITGβ4
SSEA-4

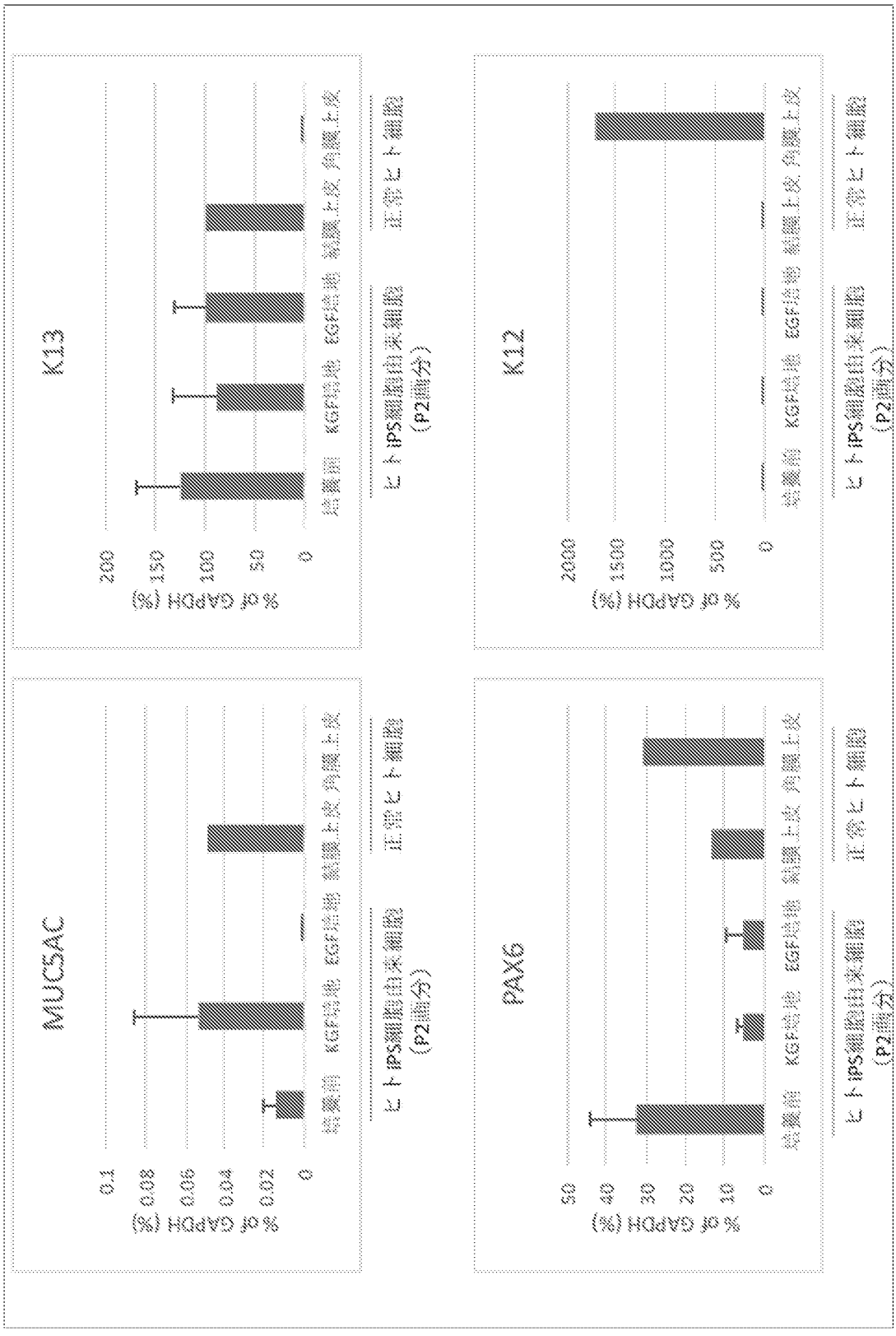
[図4]


a
b
c
d
mGp4
SSEA-4
P5 & P6
K13+
PAX6+
K12-
Merged
MUC5AC+
PAX6+
Merged
PAS+
スケールバー、10 μm

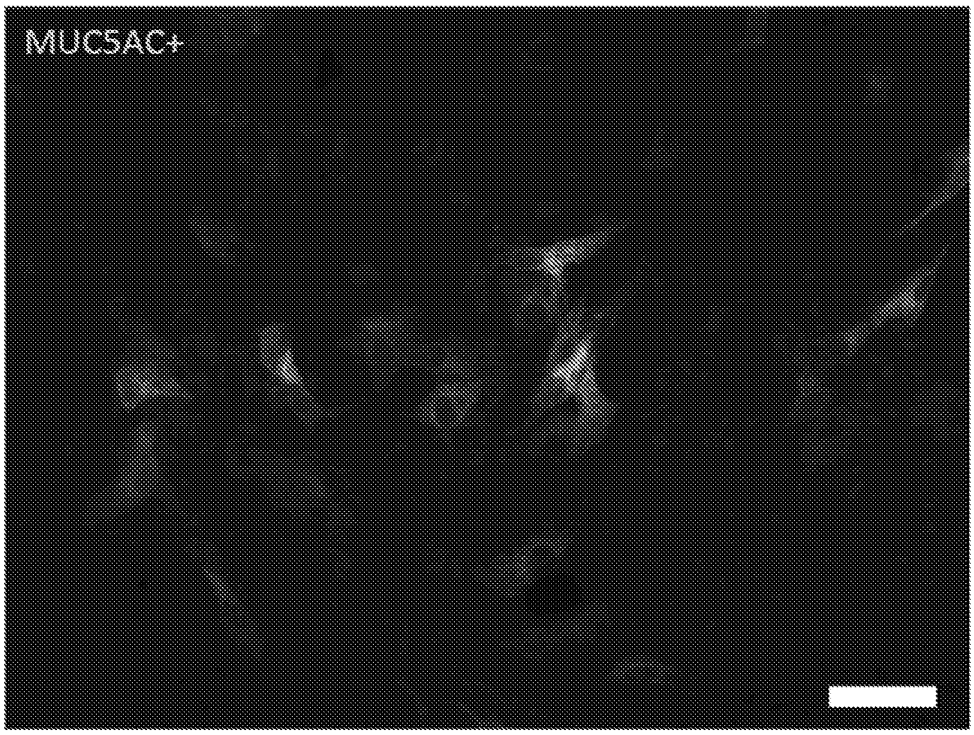
[図5]



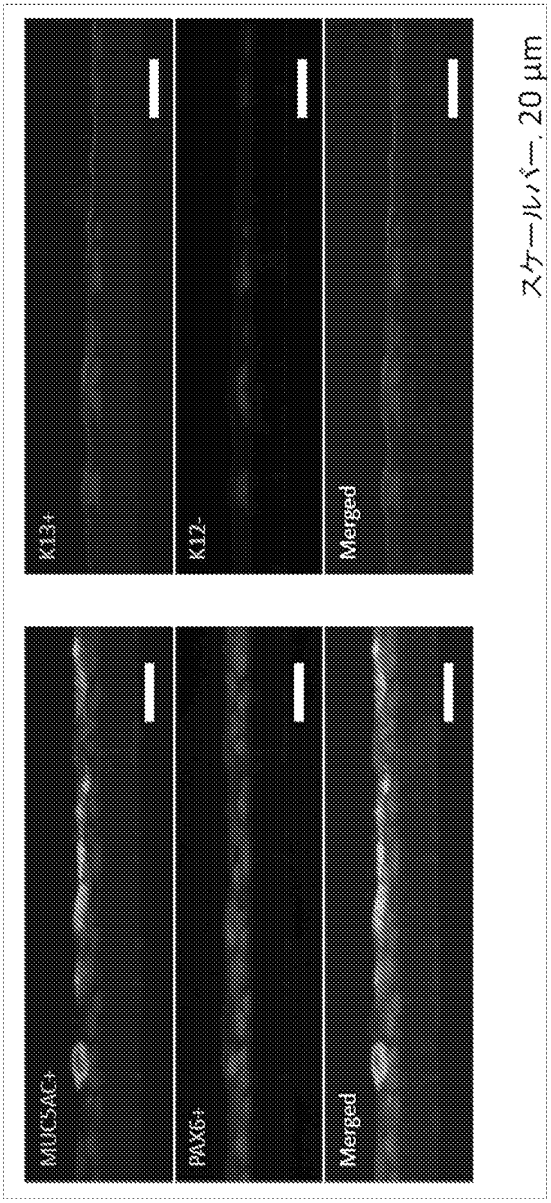
[図6]


K13
% of GAPDH (%)
200
150
100
50
0
MUC5AC
0.1
0.08
0.06
0.04
0.02
0
K12
2000
1500
1000
500
PAX6
50
40
30
20
10
培養前
KGF処理
EGF処理
結膜上皮
角膜上皮
ヒトiPS細胞由来細胞 (P2継代)
正常ヒト細胞

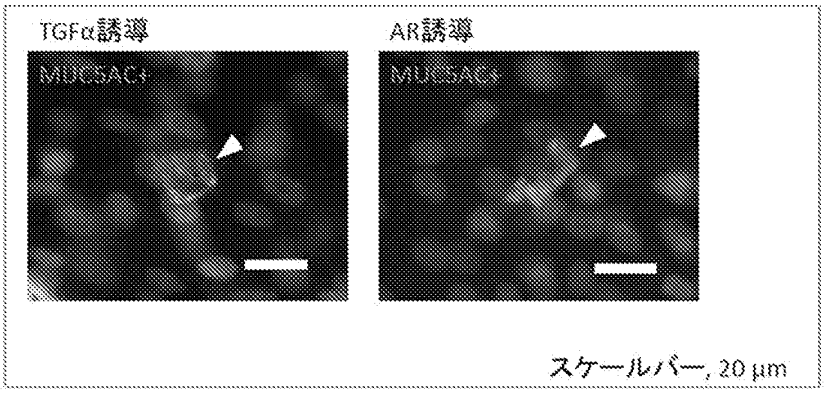
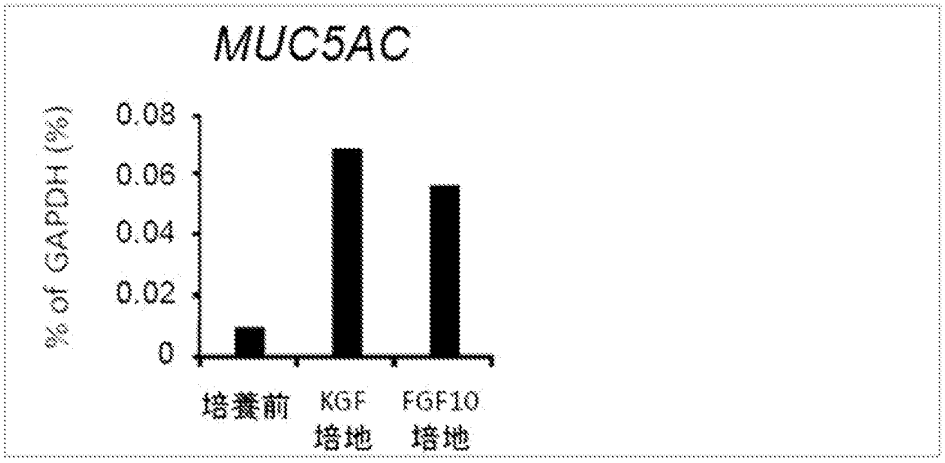
[図7]



[図8]


K13+
K12-
Merged
MUC5AC+
PAX6+
Merged
スケールバー, 20 μm

[図9]


TGFα誘導
AR誘導
MUC5AC+
MUC5AC+
スケールバー, 20 μm

[図10]