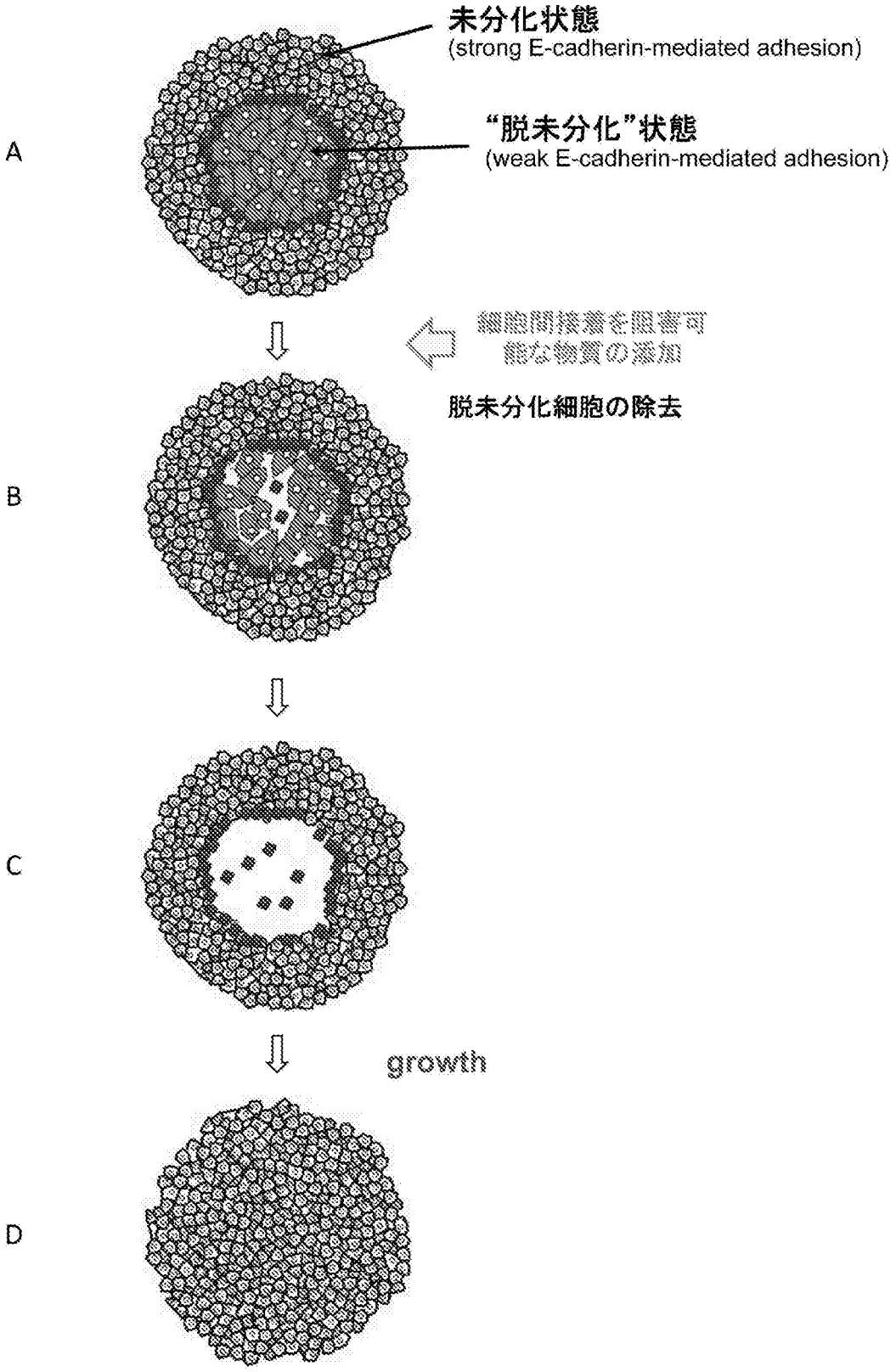
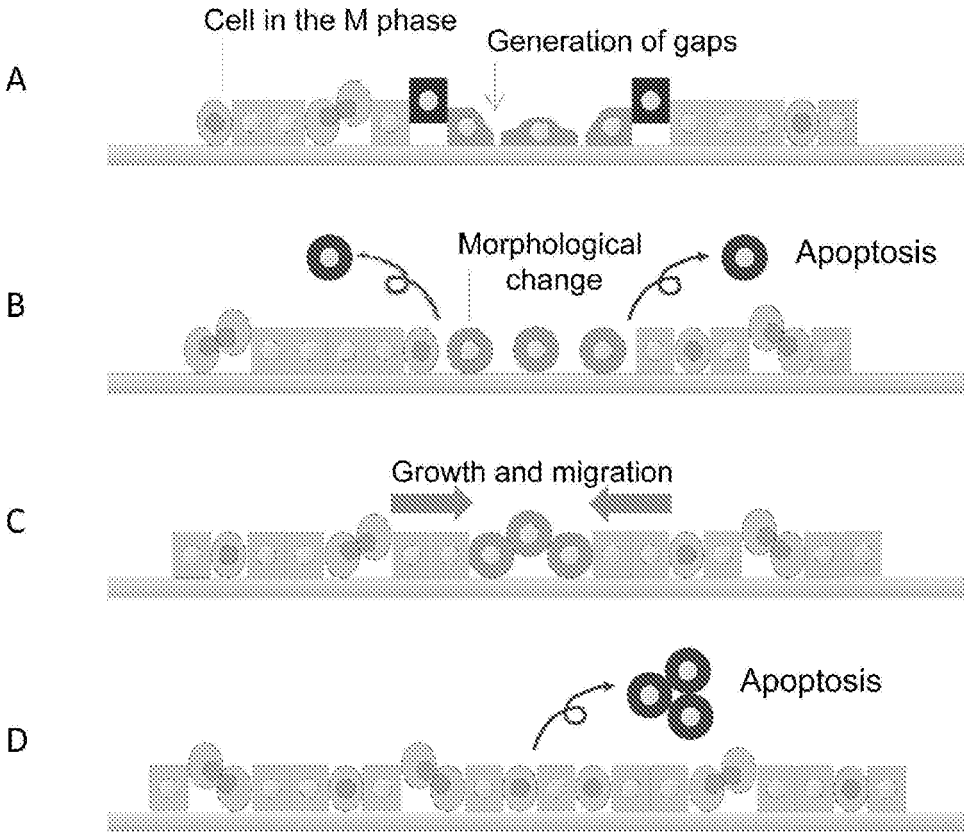
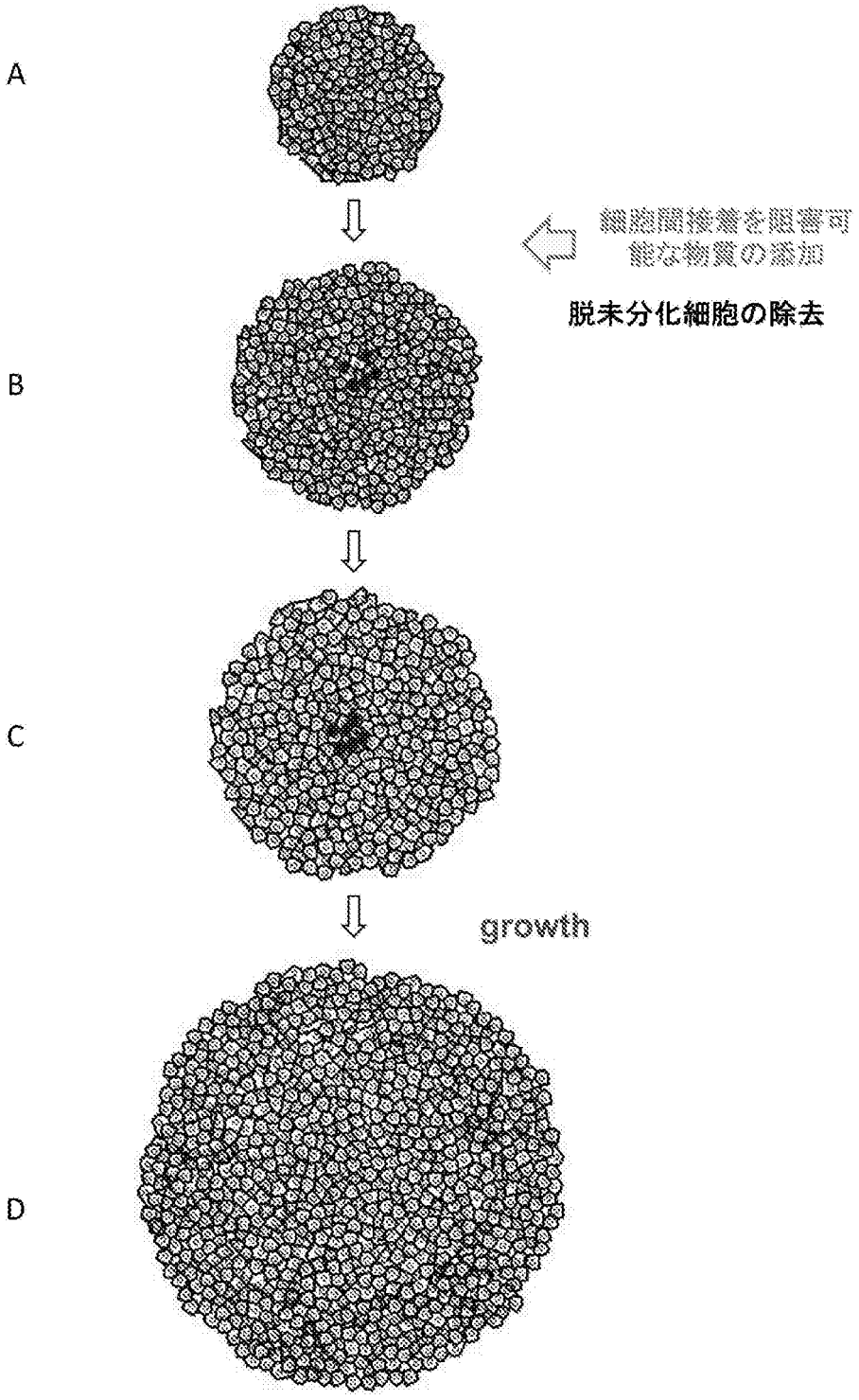
[図1]


未分化状態
(strong E-cadherin-mediated adhesion)
“脱未分化”状態
(weak E-cadherin-mediated adhesion)
A
細胞間接着を阻害可能な物質の添加
脱未分化細胞の除去
B
C
growth
D

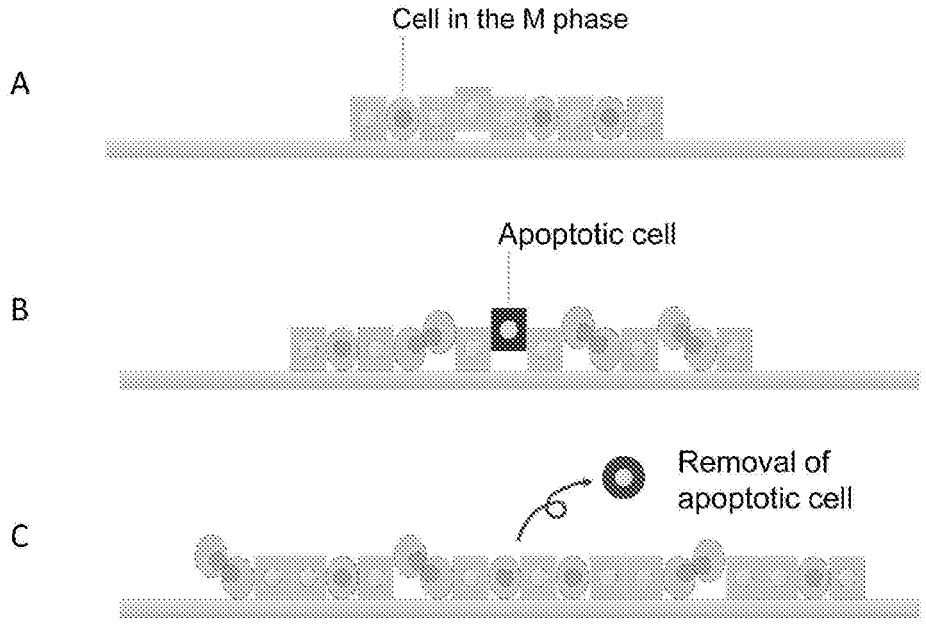
[図2]


A
Cell in the M phase
Generation of gaps
B
Morphological change
Apoptosis
C
Growth and migration
D
Apoptosis

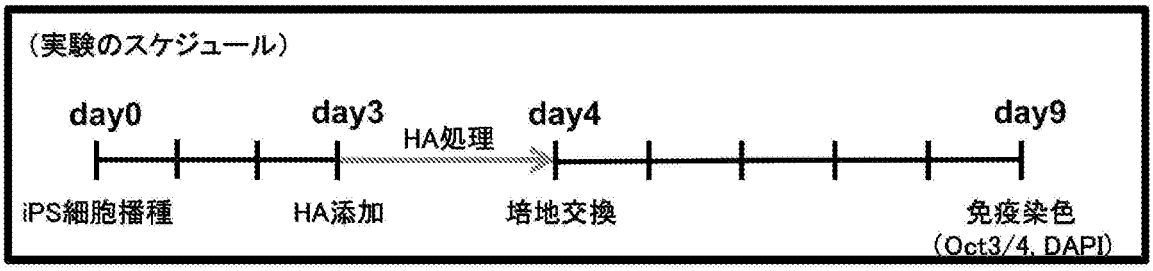
[図3]



[図4]

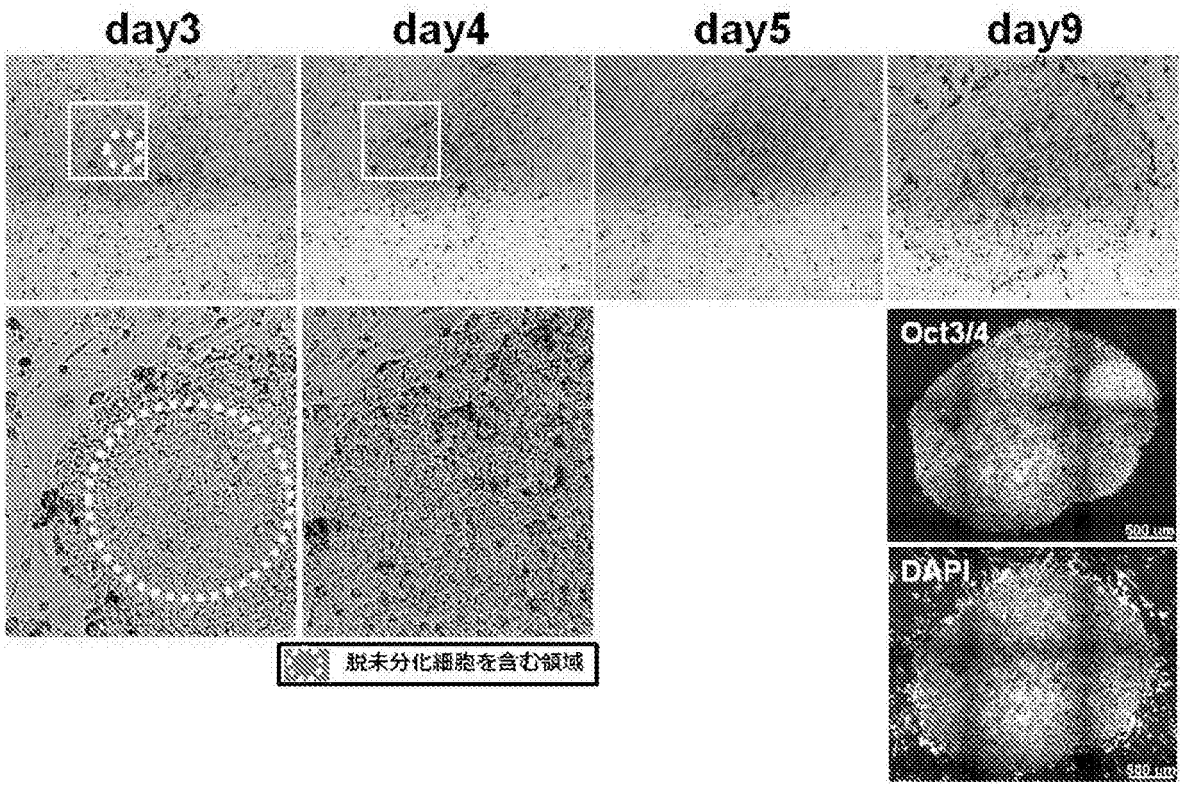

Cell in the M phase
A
Apoptotic cell
B
Removal of
apoptotic cell
C

[図5]


（実験のスケジュール）
day0
day3
HA処理
day4
day9
iPS細胞播種
HA添加
培地交換
免疫染色
（Oct3/4, DAPI）

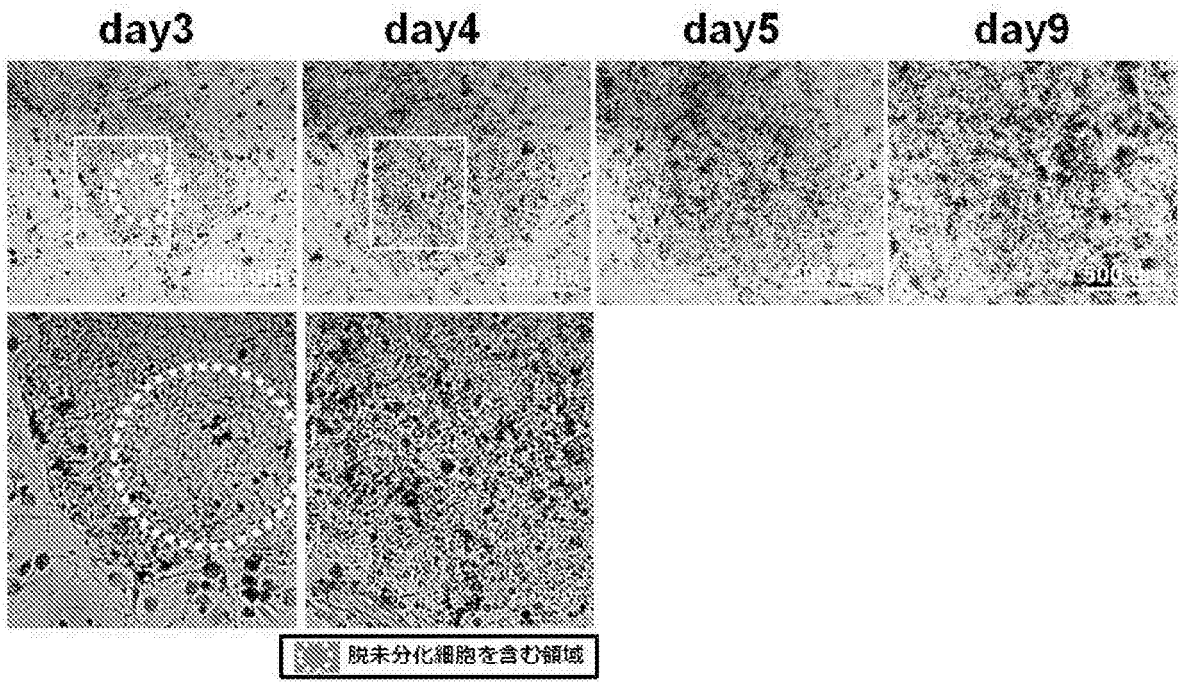
[図6]

HA-1 100nM



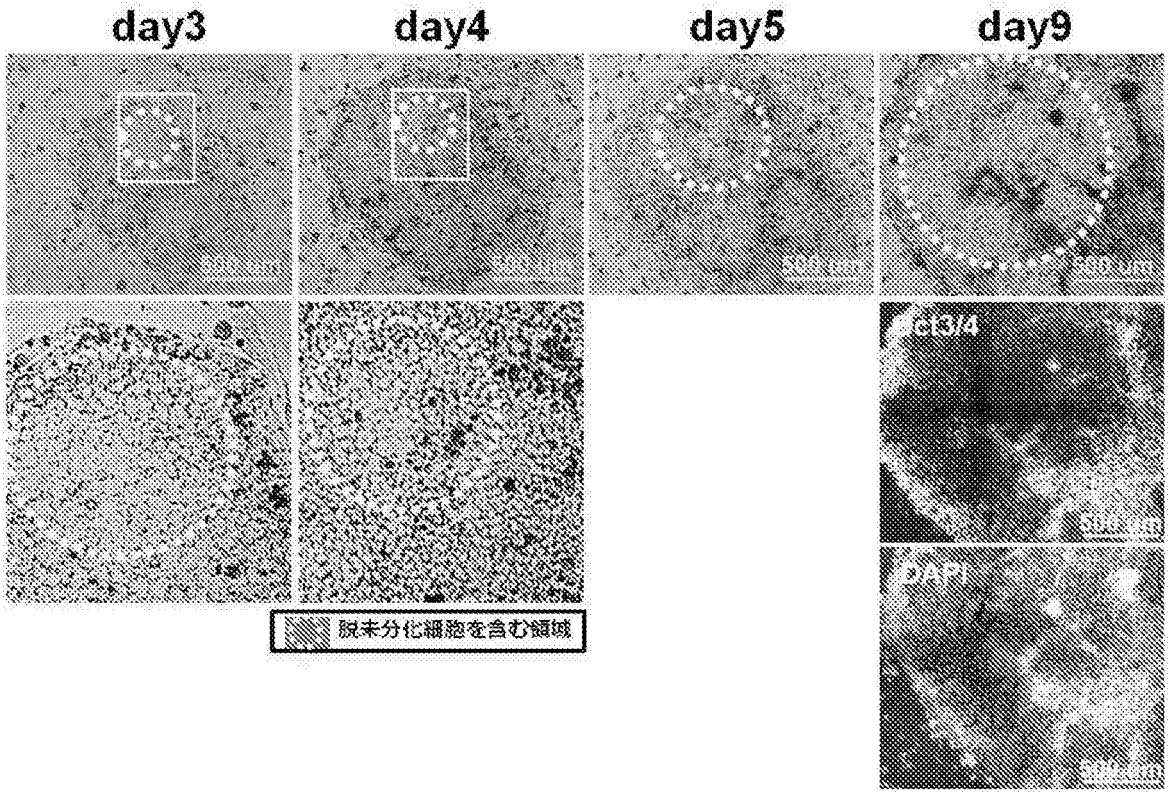
[図7]

HA-1 50nM



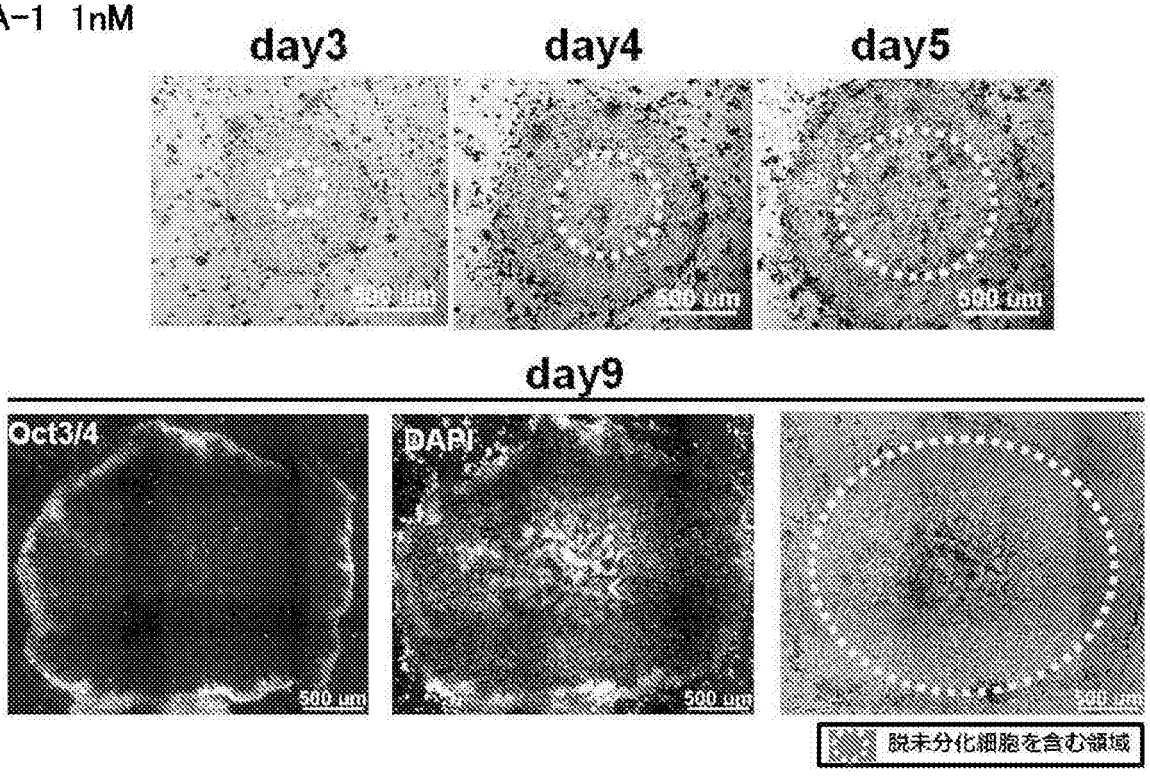
[図8]

HA-1 10nM

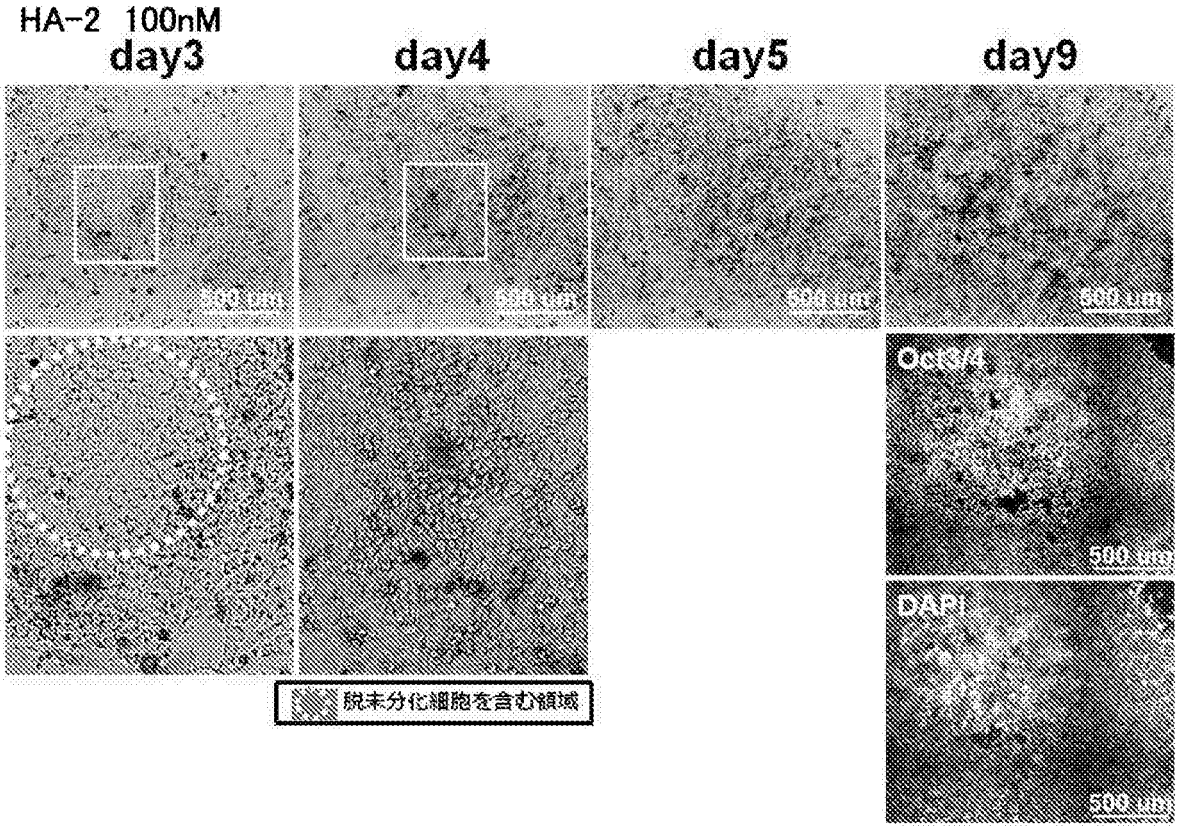


[図9]

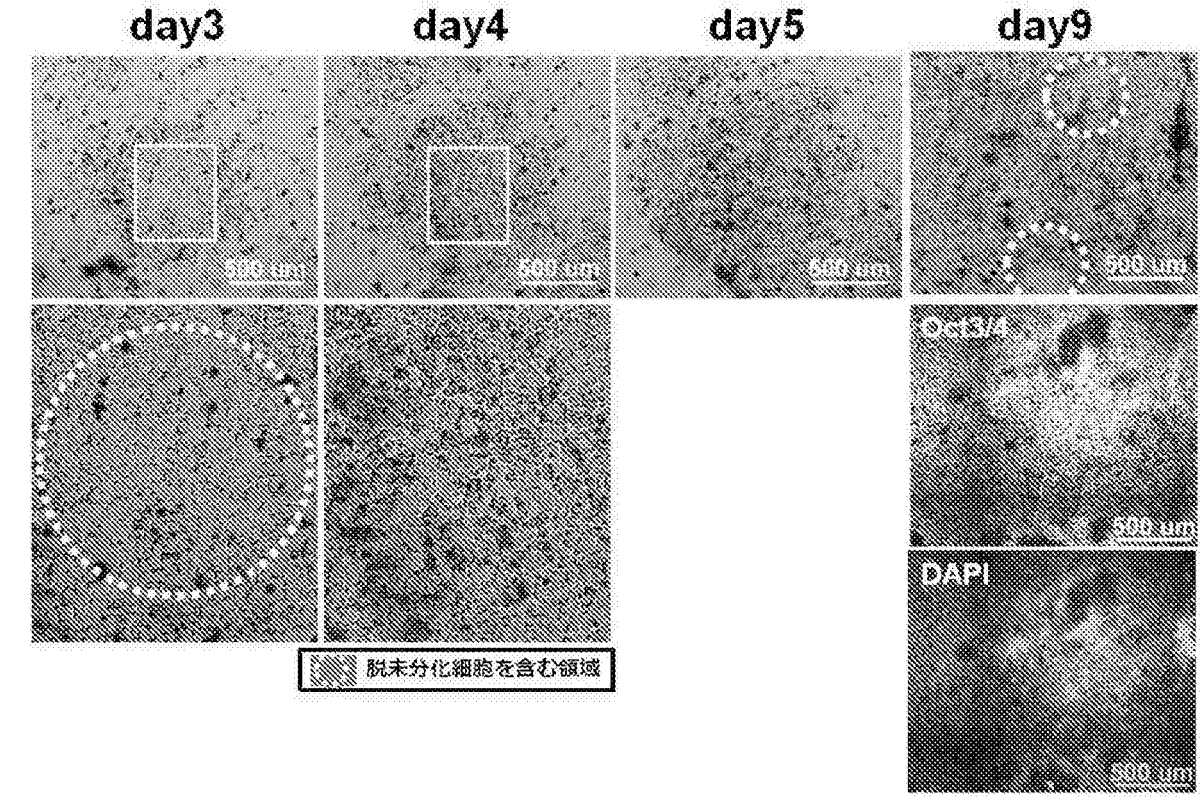
HA-1 1nM



[図10]

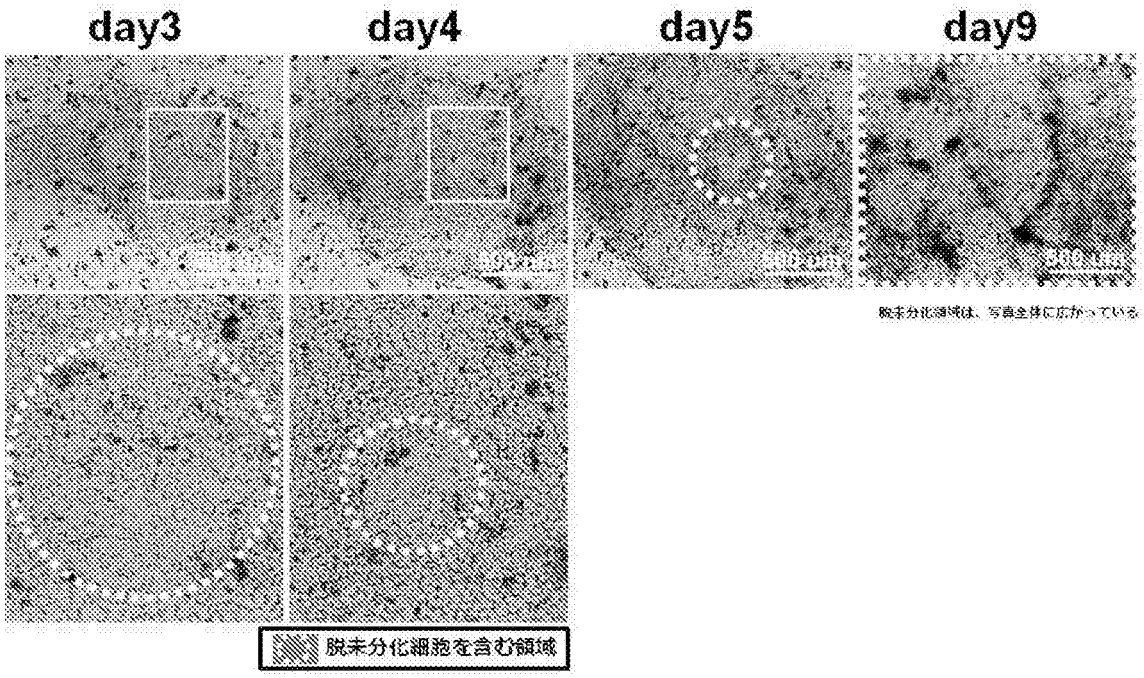

HA-2 100nM
day3
day4
day5
day9
500 μm
500 μm
500 μm
500 μm
Oct3/4
500 μm
DAPI
500 μm
脱未分化細胞を含む領域

[図11]


HA-2 50nM
day3
day4
day5
day9
500 μm
500 μm
500 μm
500 μm
Oct3/4
500 μm
DAPI
500 μm
脱未分化細胞を含む領域

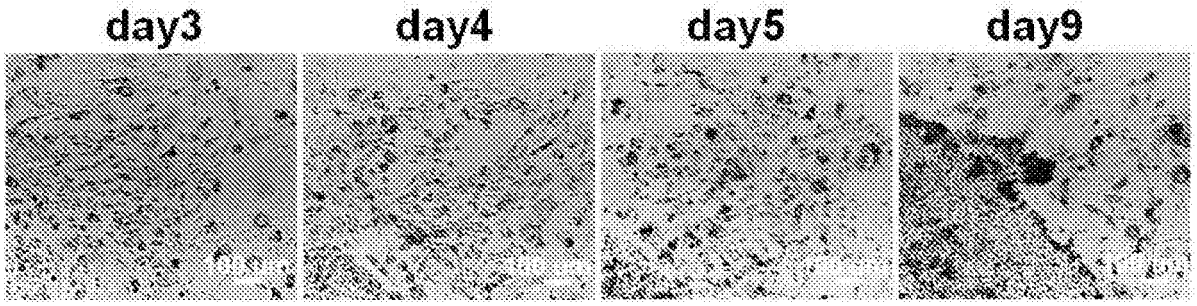
[図12]

HA-2 1nM



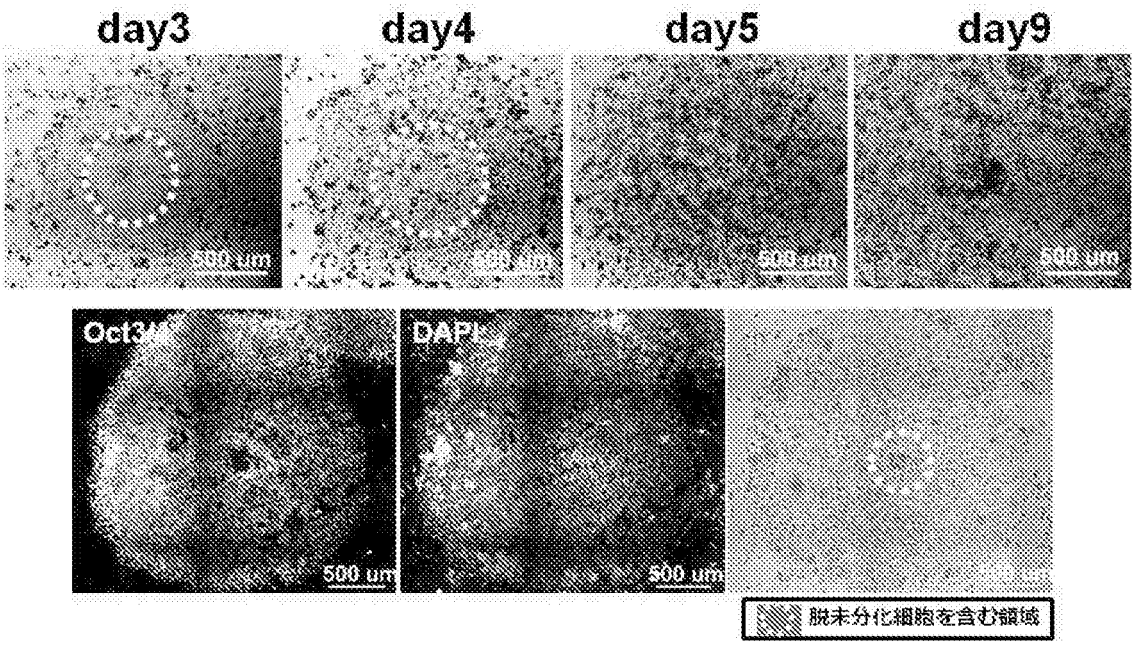
[図13]

HA-2 100nM



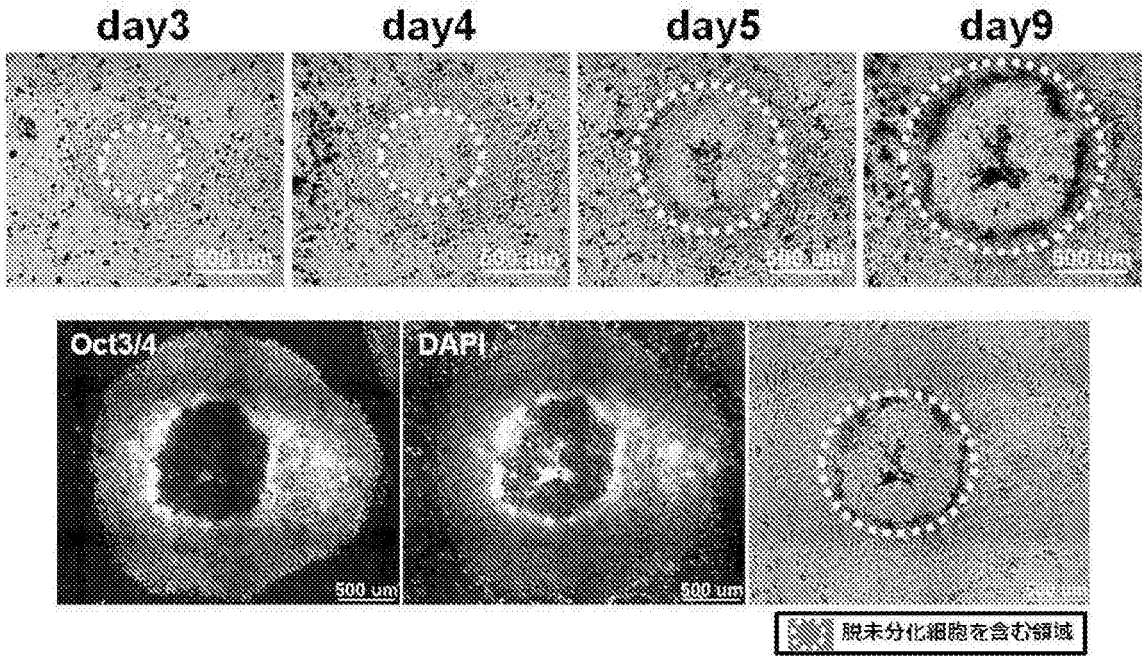
[図14]

HA-3 50nM

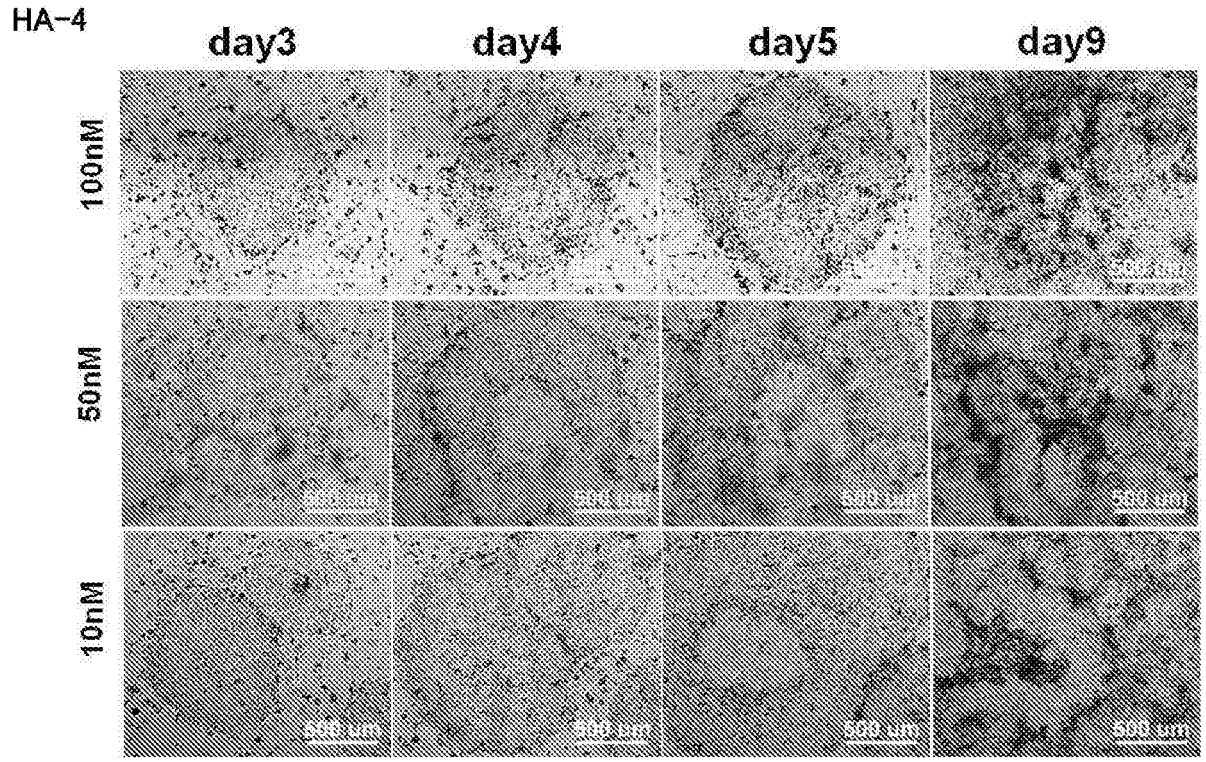


[図15]

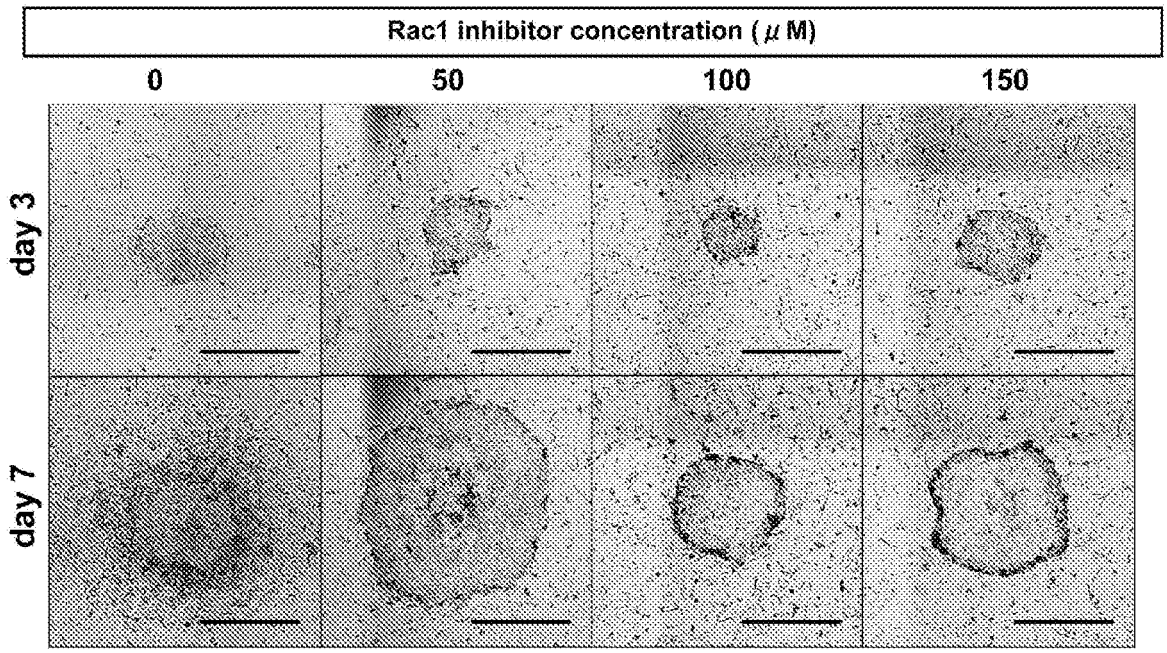
HA-3 10nM



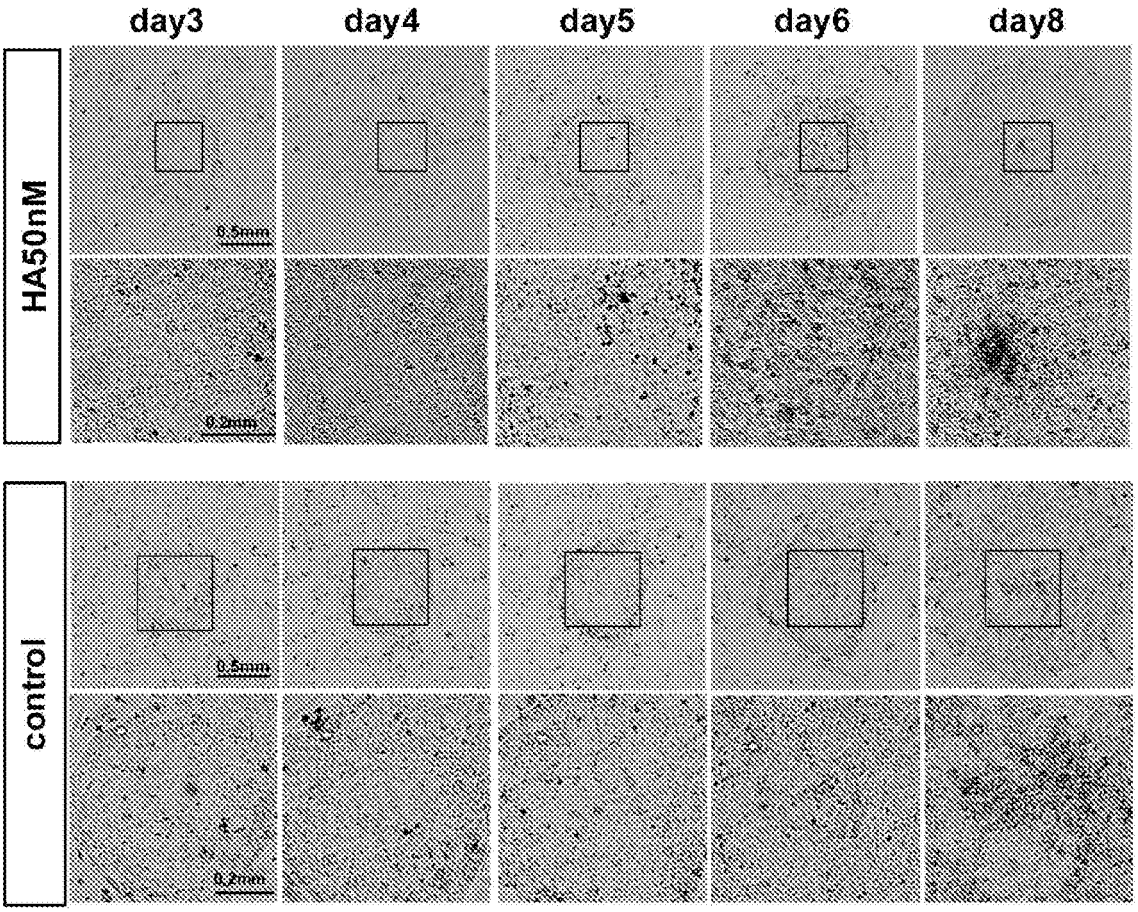
[図16]


HA-4
day3
day4
day5
day9
100nM
50nM
10nM

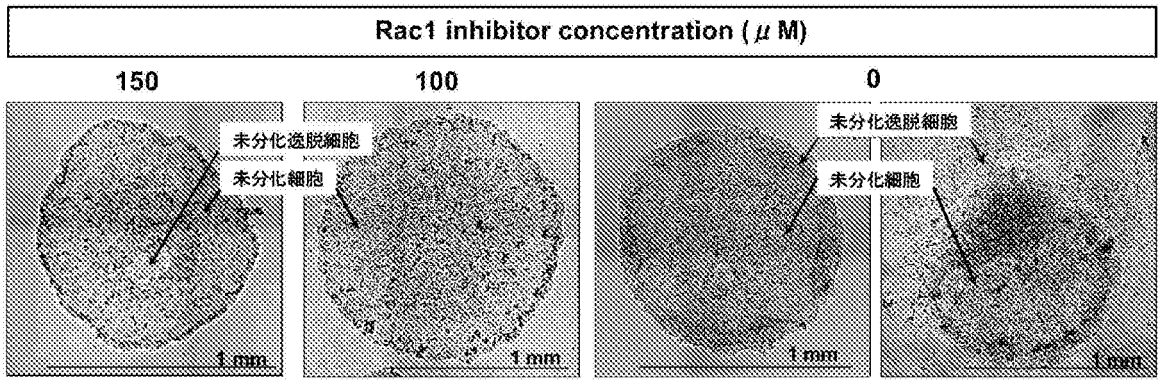
[図17]


Rac1 inhibitor concentration (μM)
0
50
100
150
day 3
day 7

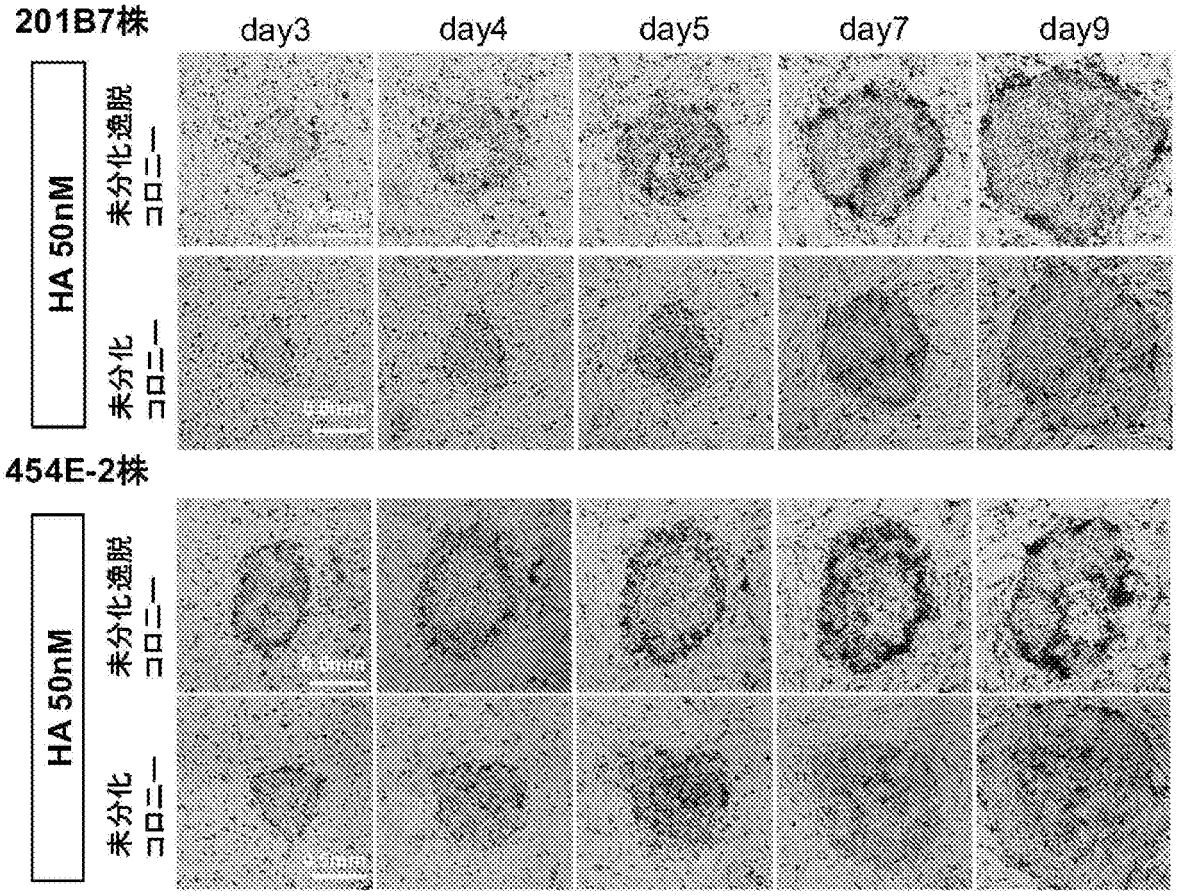
[図18]


day3
day4
day5
day6
day8
HA50nM
control
0.5mm
0.2mm

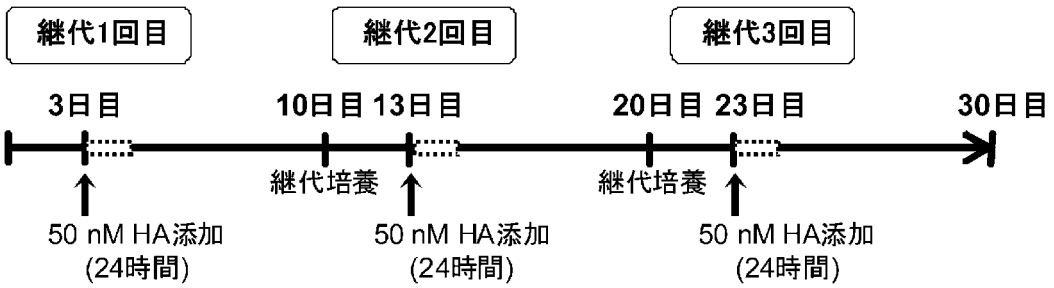
[図19]


Rac1 inhibitor concentration (μM)
150
100
0
未分化逸脱細胞
未分化細胞
1 mm

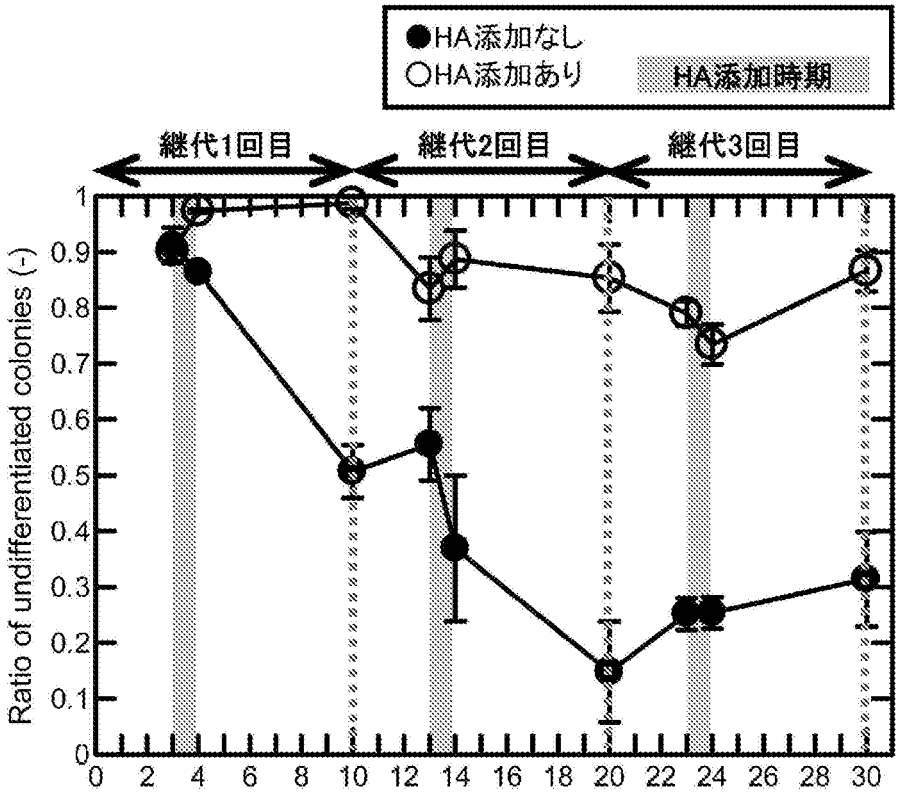
[図20]


201B7株
day3
day4
day5
day7
day9
HA 50nM
未分化逸脱コロニー
未分化コロニー
454E-2株
HA 50nM
未分化逸脱コロニー
未分化コロニー

[図21]


継代1回目
継代2回目
継代3回目
3日目
10日目 13日目
20日目 23日目
30日目
継代培養
継代培養
50 nM HA添加
(24時間)
50 nM HA添加
(24時間)
50 nM HA添加
(24時間)

[図22]


●HA添加なし
○HA添加あり
HA添加時期
継代1回目
継代2回目
継代3回目
Ratio of undifferentiated colonies (-)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30