Fig. 1

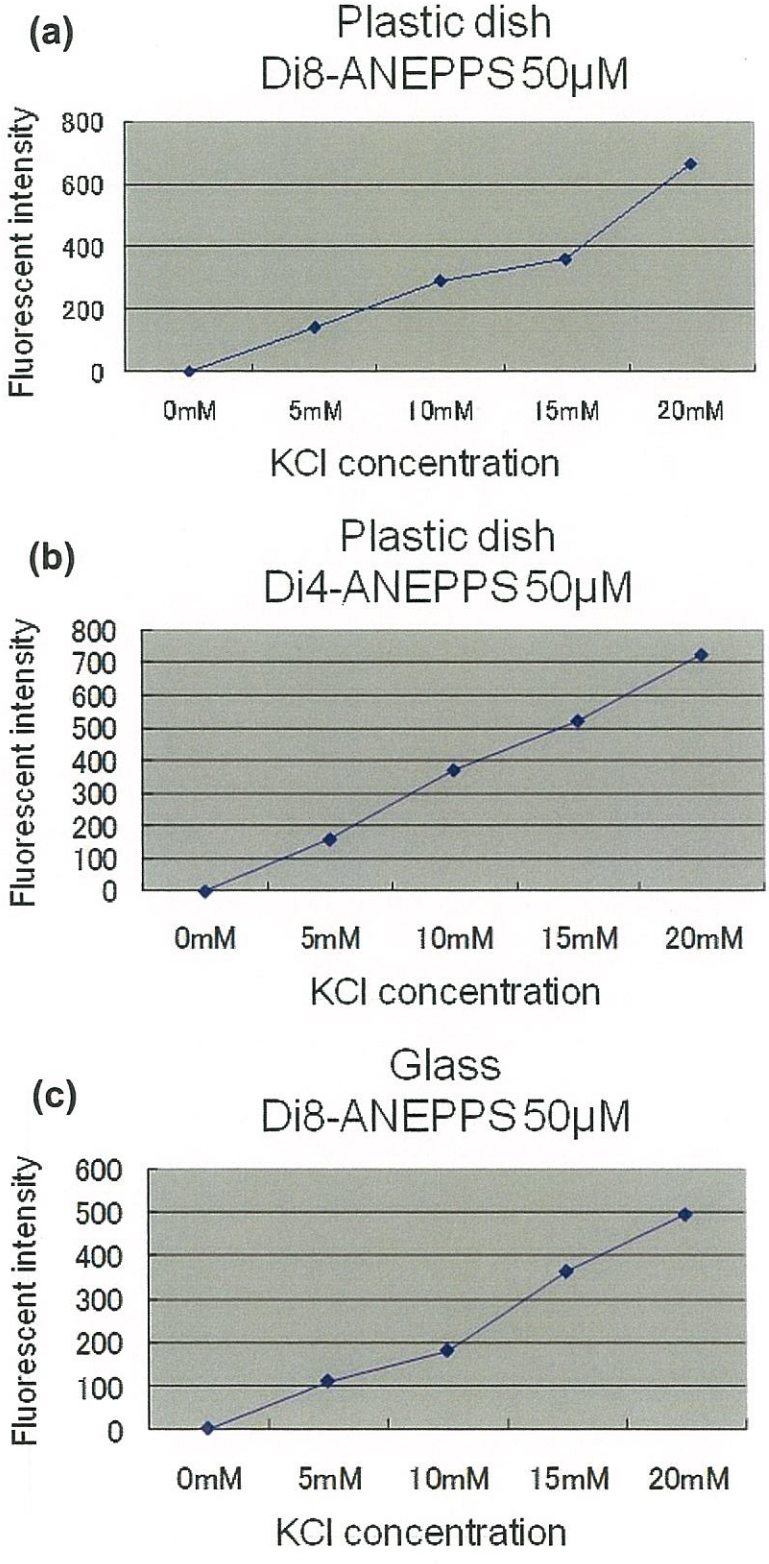

(a)
Plastic dish
Di8-ANEPPS 50μM
Fluorescent intensity
800
600
400
200
0
0mM
5mM
10mM
15mM
20mM
KCl concentration
(b)
Plastic dish
Di4-ANEPPS 50μM
Fluorescent intensity
800
700
600
500
400
300
200
100
0
0mM
5mM
10mM
15mM
20mM
KCl concentration
(c)
Glass
Di8-ANEPPS 50μM
Fluorescent intensity
600
500
400
300
200
100
0
0mM
5mM
10mM
15mM
20mM
KCl concentration

Fig. 2

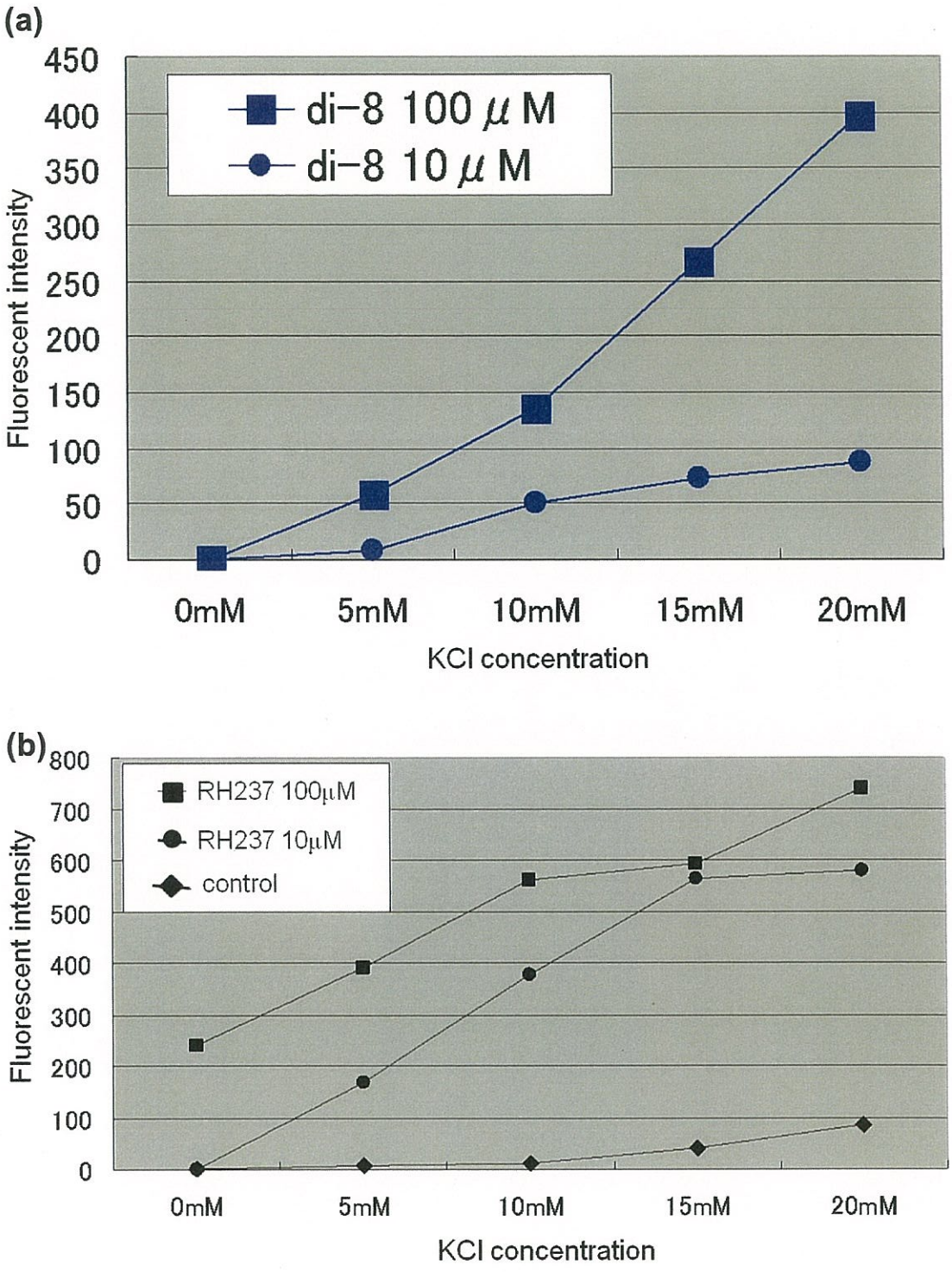

(a)
450
400
350
300
250
200
150
100
50
0
Fluorescent intensity
di-8 100 μ M
di-8 10 μ M
0mM
5mM
10mM
15mM
20mM
KCl concentration
(b)
800
700
600
500
400
300
200
100
0
Fluorescent intensity
RH237 100μM
RH237 10μM
control
0mM
5mM
10mM
15mM
20mM
KCl concentration

Fig. 3

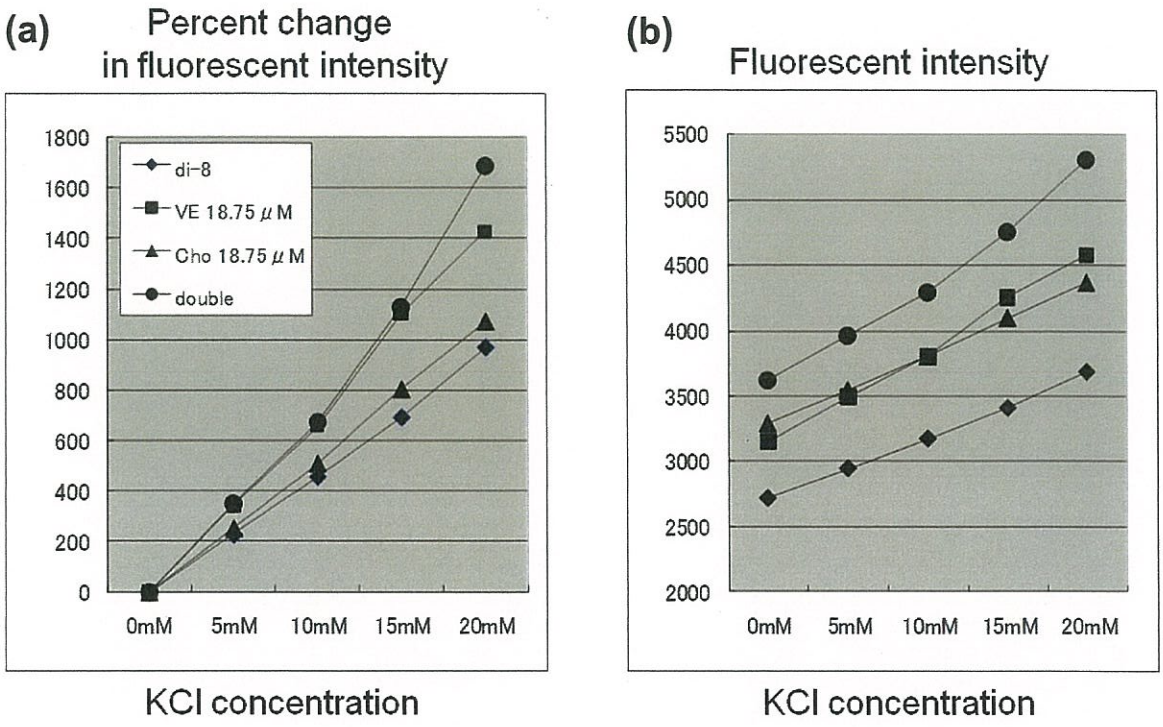

(a)
Percent change in fluorescent intensity
1800
1600
1400
1200
1000
800
600
400
200
0
di-8
VE 18.75 μM
Cho 18.75 μM
double
0mM
5mM
10mM
15mM
20mM
KCl concentration
(b)
Fluorescent intensity
5500
5000
4500
4000
3500
3000
2500
2000
0mM
5mM
10mM
15mM
20mM
KCl concentration

Fig. 4

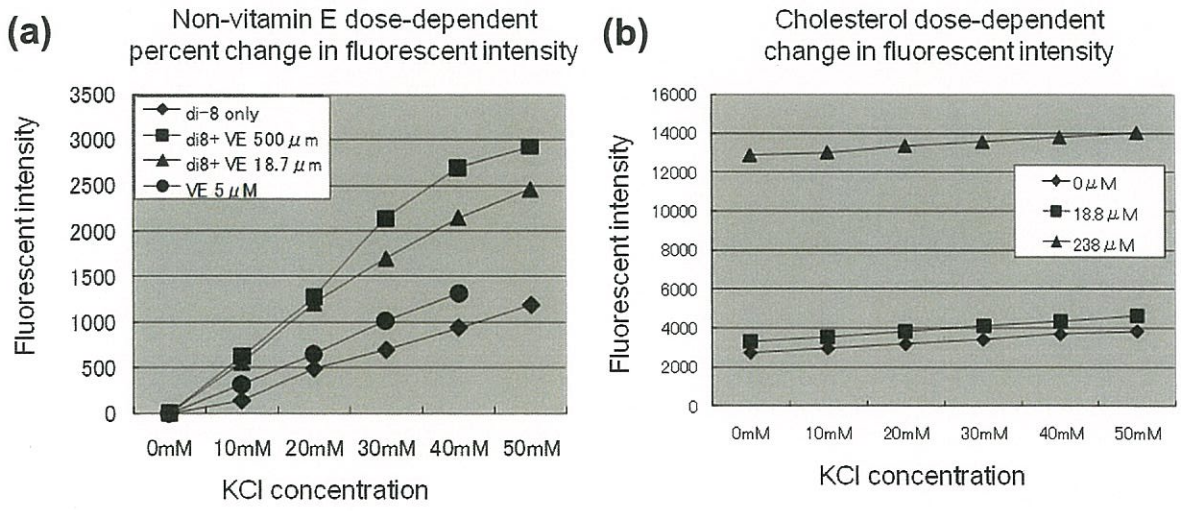

(a)
Non-vitamin E dose-dependent percent change in fluorescent intensity
Fluorescent intensity
3500
3000
2500
2000
1500
1000
500
0
di-8 only
di8+ VE 500 μm
di8+ VE 18.7 μm
VE 5 μM
0mM
10mM
20mM
30mM
40mM
50mM
KCl concentration
(b)
Cholesterol dose-dependent change in fluorescent intensity
Fluorescent intensity
16000
14000
12000
10000
8000
6000
4000
2000
0
0 μM
18.8 μM
238 μM
0mM
10mM
20mM
30mM
40mM
50mM
KCl concentration

Fig. 5

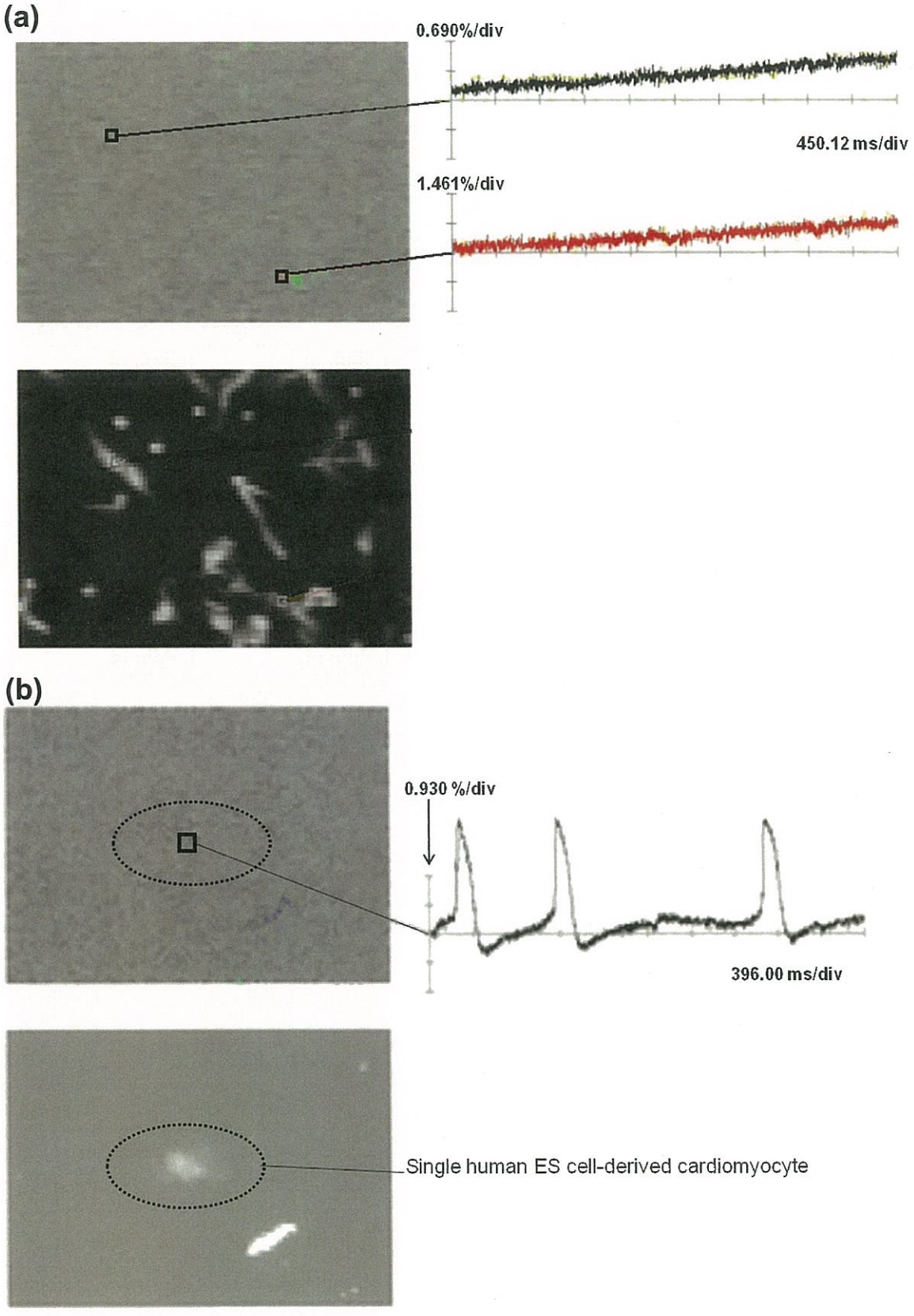

(a)
0.690%/div
450.12 ms/div
1.461%/div
(b)
0.930 %/div
396.00 ms/div
Single human ES cell-derived cardiomyocyte

Fig. 5 (continued)

