FIG. 1

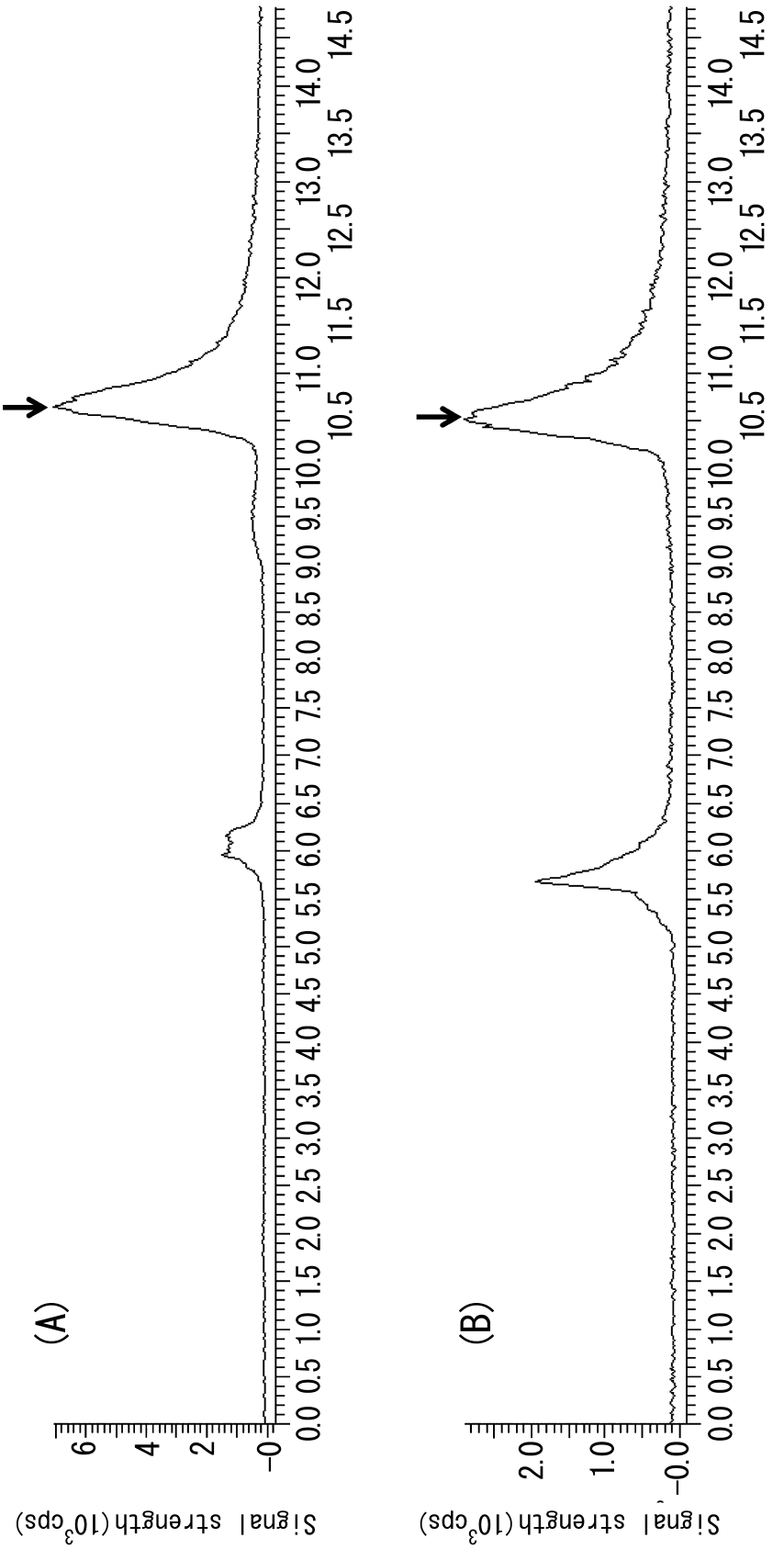


FIG. 2

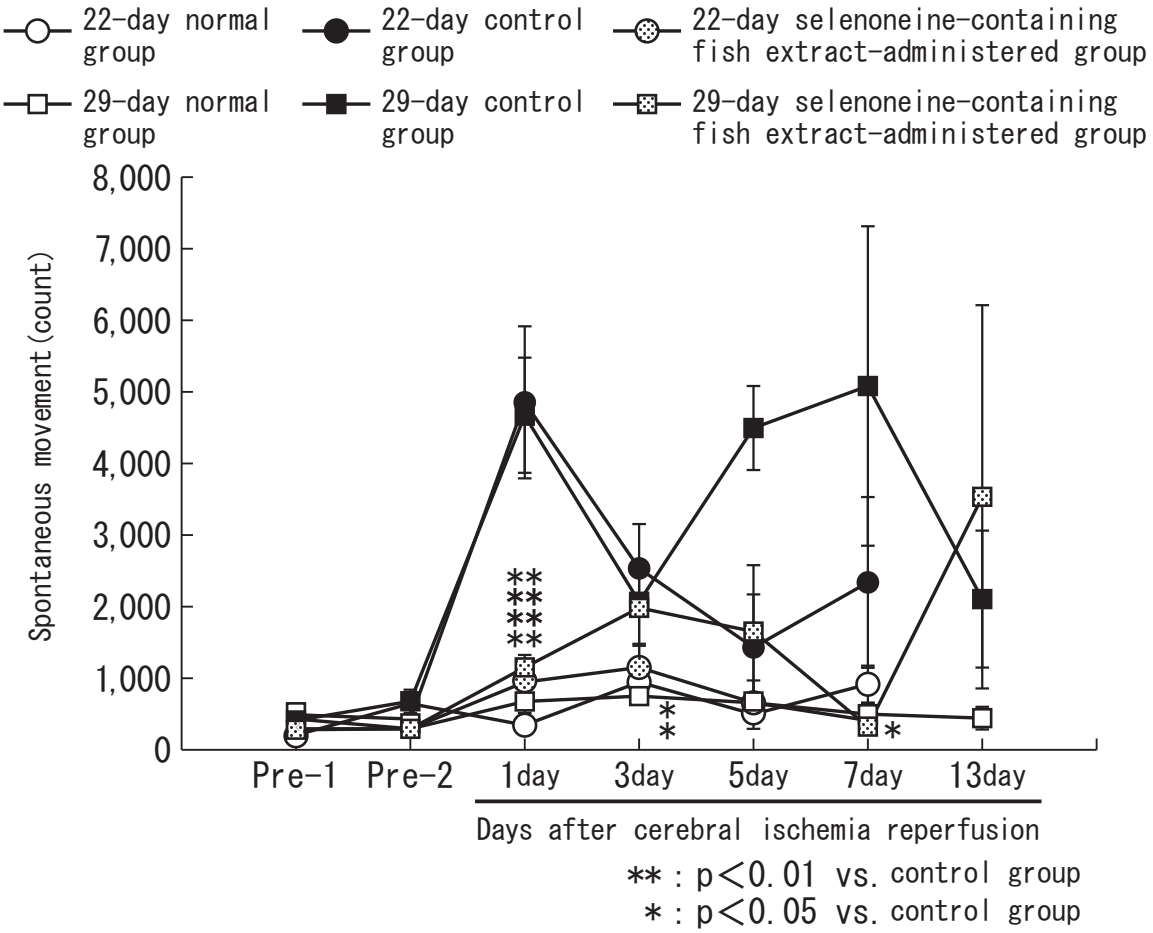

22-day normal group
22-day control group
22-day selenoneine-containing fish extract-administered group
29-day normal group
29-day control group
29-day selenoneine-containing fish extract-administered group
Spontaneous movement (count)
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
Pre-1
Pre-2
1day
3day
5day
7day
13day
Days after cerebral ischemia reperfusion
** : p<0.01 vs. control group
* : p<0.05 vs. control group

FIG. 3

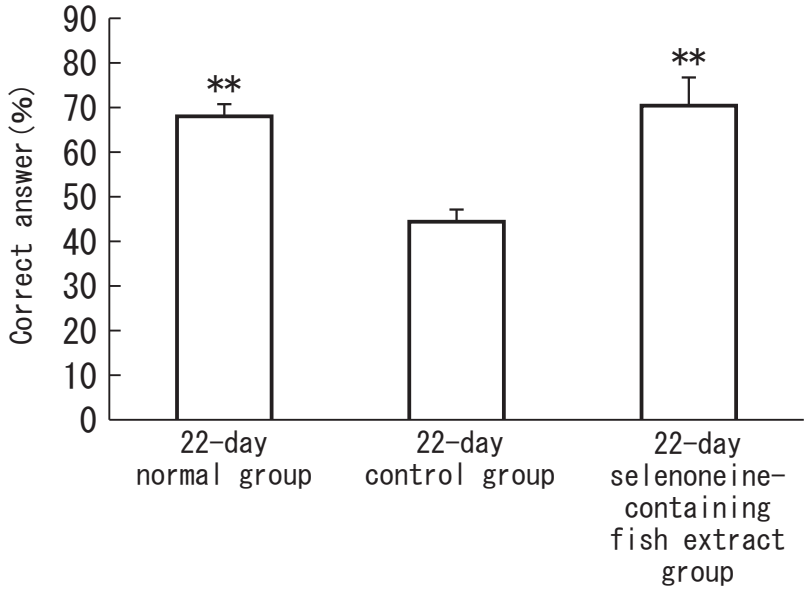

Correct answer (%)
90
80
70
60
50
40
30
20
10
0
22-day normal group
22-day control group
22-day selenoneine-containing fish extract group

FIG. 4

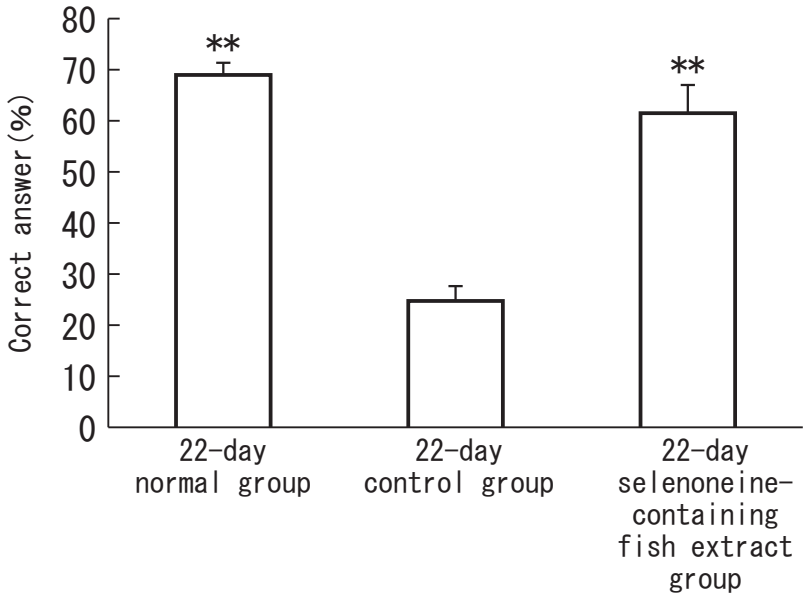

80
70
60
50
40
30
20
10
0
Correct answer (%)
**
**
22-day normal group
22-day control group
22-day selenoneine-containing fish extract group

FIG. 5

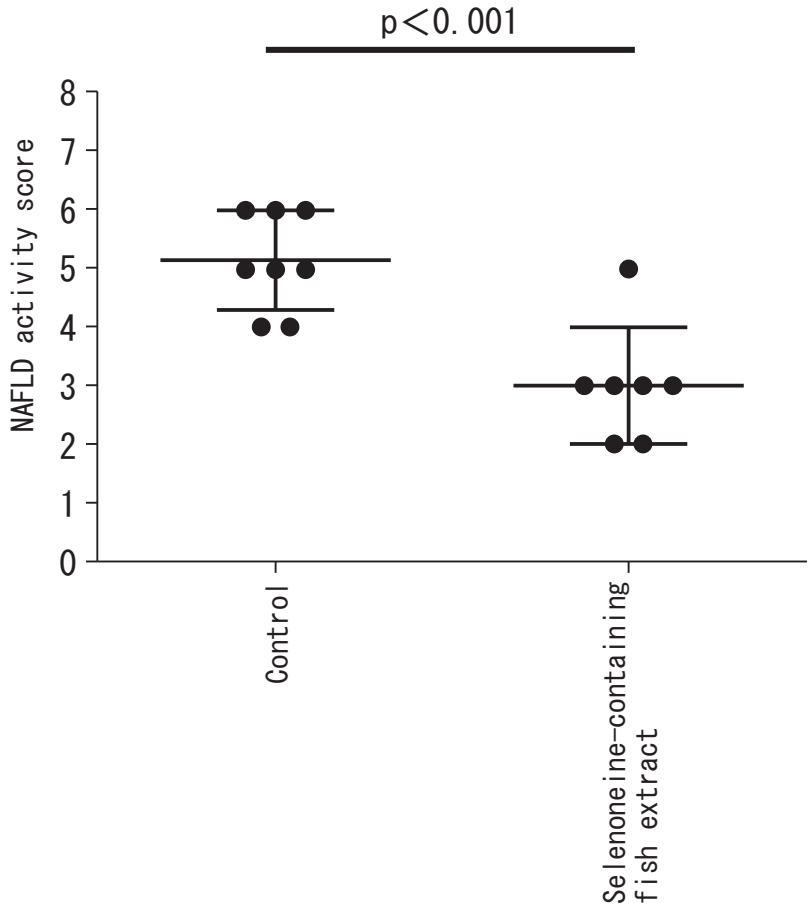

p<0.001
8
7
6
5
4
3
2
1
0
NAFLD activity score
Control
Selenoneine-containing fish extract

FIG. 6

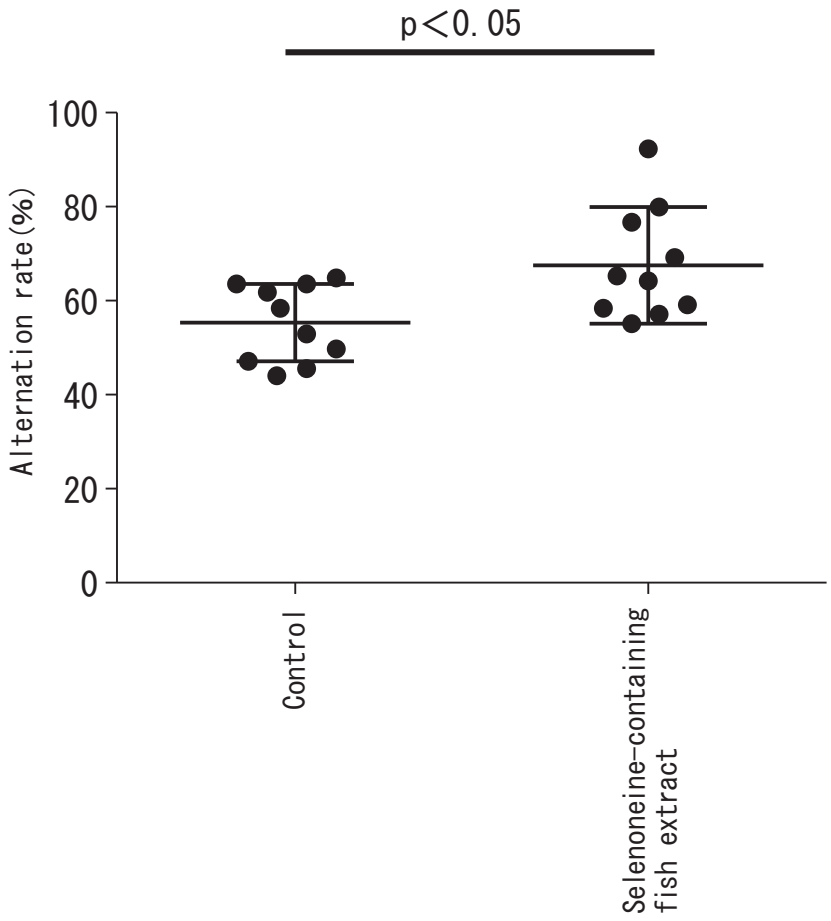

p<0.05
Alternation rate(%)
100
80
60
40
20
0
Control
Selenoneine-containing fish extract

FIG. 7

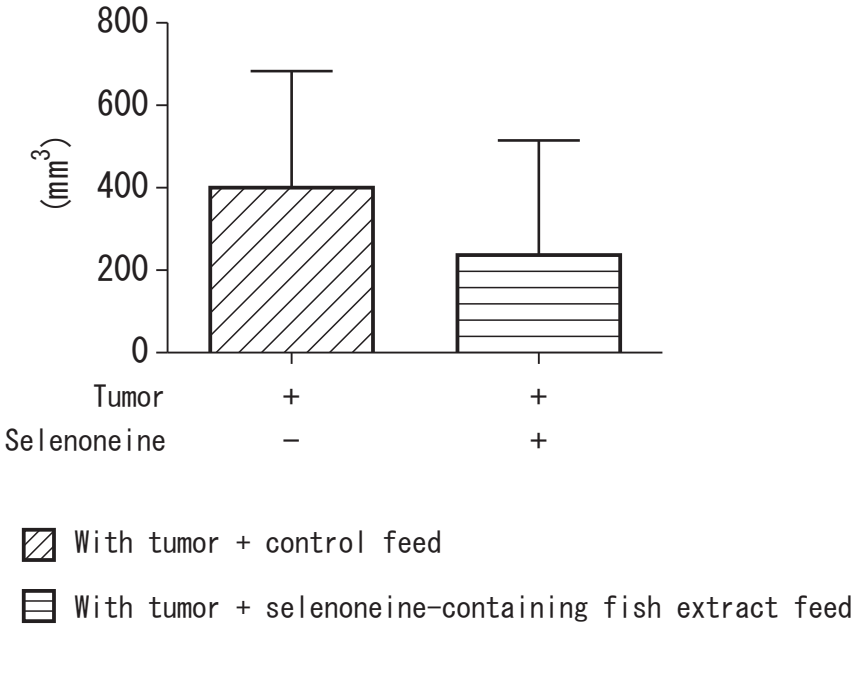

800
600
400
200
0
(mm3)
Tumor + +
Selenoneine − +
With tumor + control feed
With tumor + selenoneine-containing fish extract feed

FIG. 8

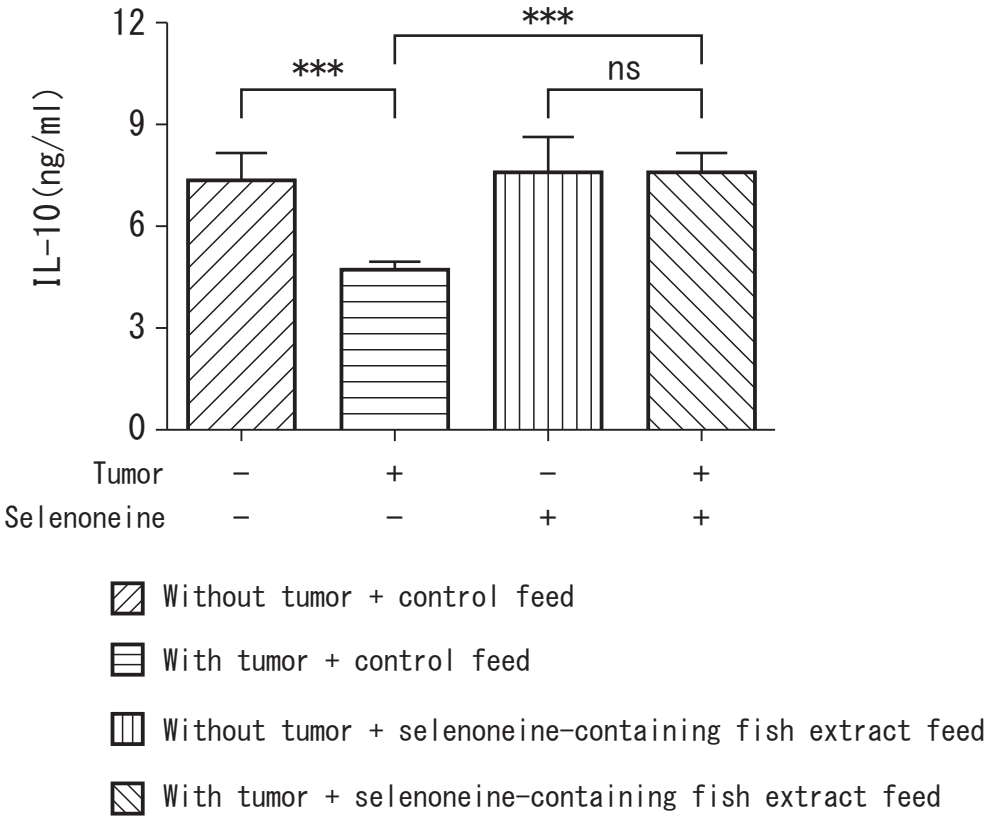

12
9
6
3
0
IL-10(ng/ml)
***
***
ns
Tumor
Selenoneine
−
+
−
+
−
−
+
+
Without tumor + control feed
With tumor + control feed
Without tumor + selenoneine-containing fish extract feed
With tumor + selenoneine-containing fish extract feed

FIG. 9

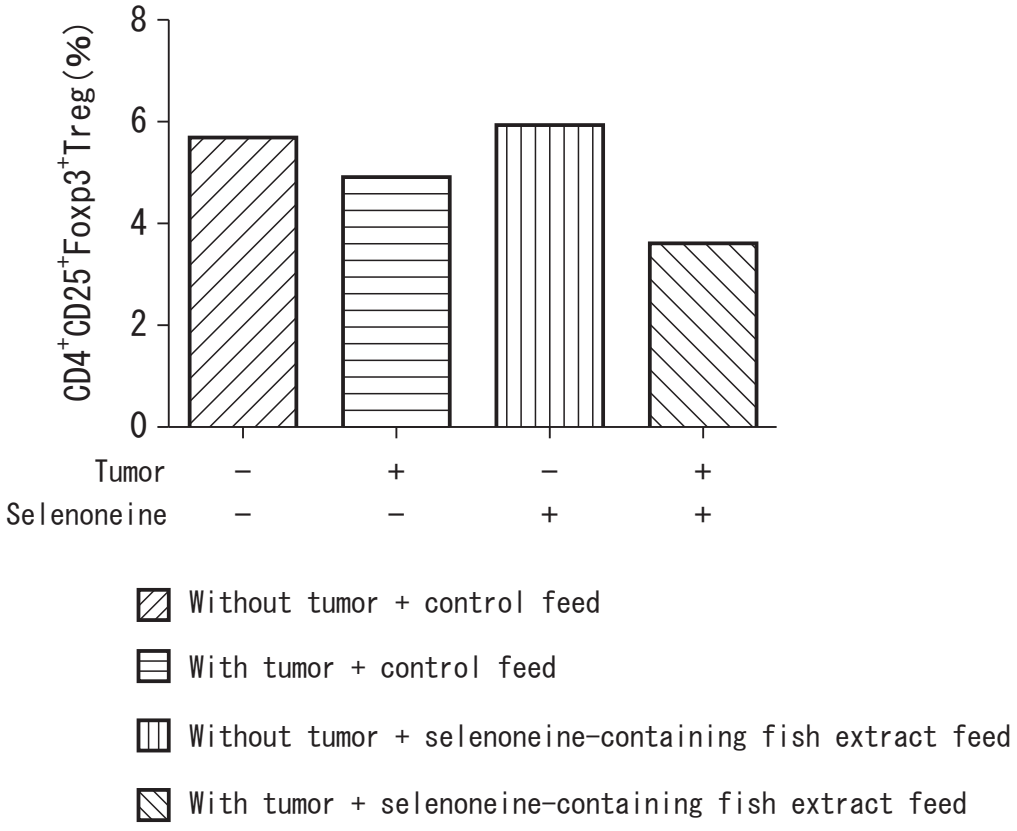

8
6
4
2
0
$CD4^+CD25^+Foxp3^+Treg(\%)$
Tumor − + − +
Selenoneine − − + +
Without tumor + control feed
With tumor + control feed
Without tumor + selenoneine-containing fish extract feed
With tumor + selenoneine-containing fish extract feed

FIG. 10

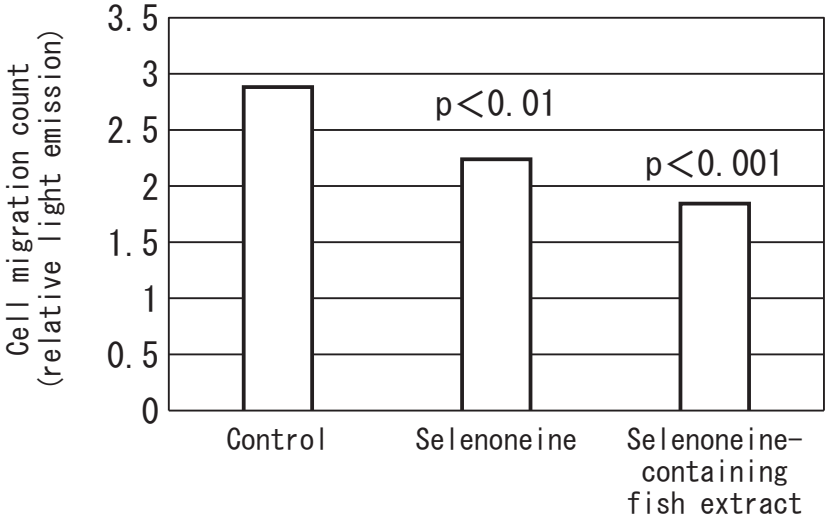

Cell migration count
(relative light emission)
3.5
3
2.5
2
1.5
1
0.5
0
p<0.01
p<0.001
Control
Selenoneine
Selenoneine-containing fish extract

FIG. 11

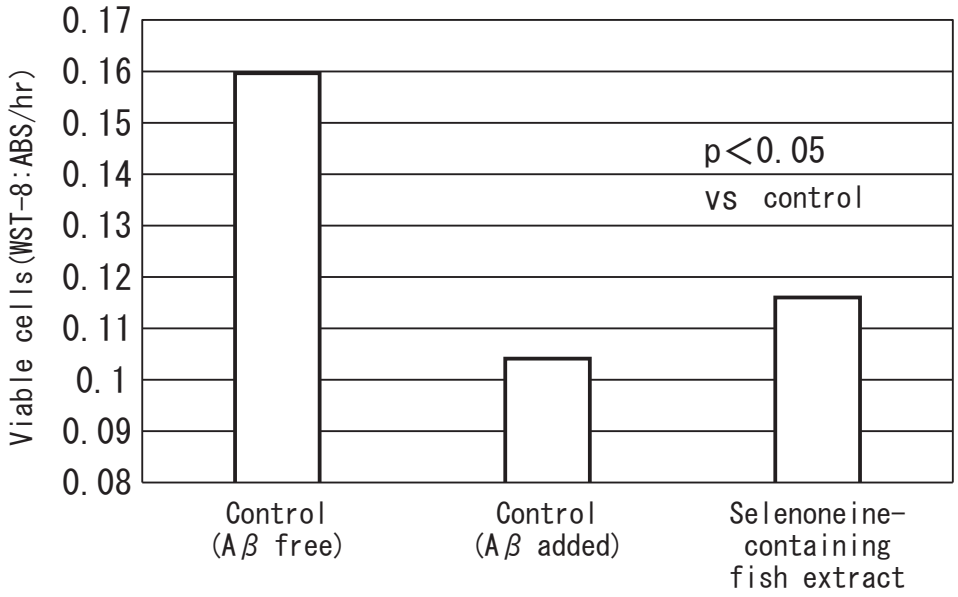

0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.1
0.09
0.08
Viable cells(WST-8:ABS/hr)
p＜0.05
vs control
Control
(Aβ free)
Control
(Aβ added)
Selenoneine-
containing
fish extract

FIG. 12

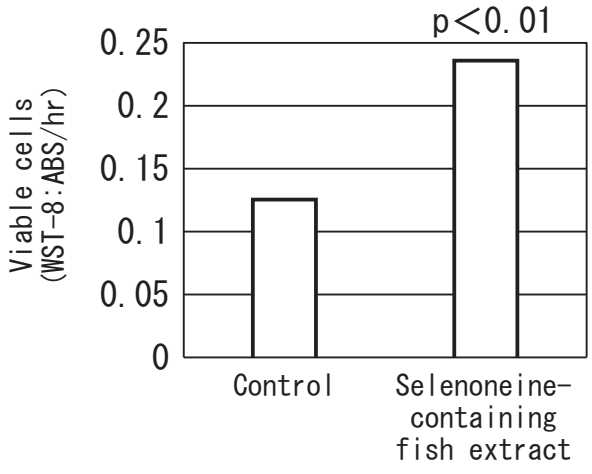

p＜0.01
0.25
0.2
0.15
0.1
0.05
0
Viable cells
(WST-8:ABS/hr)
Control
Selenoneine-
containing
fish extract

FIG. 13

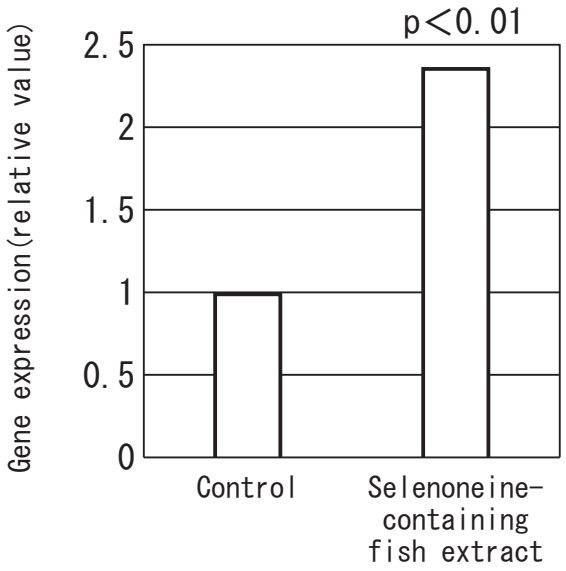
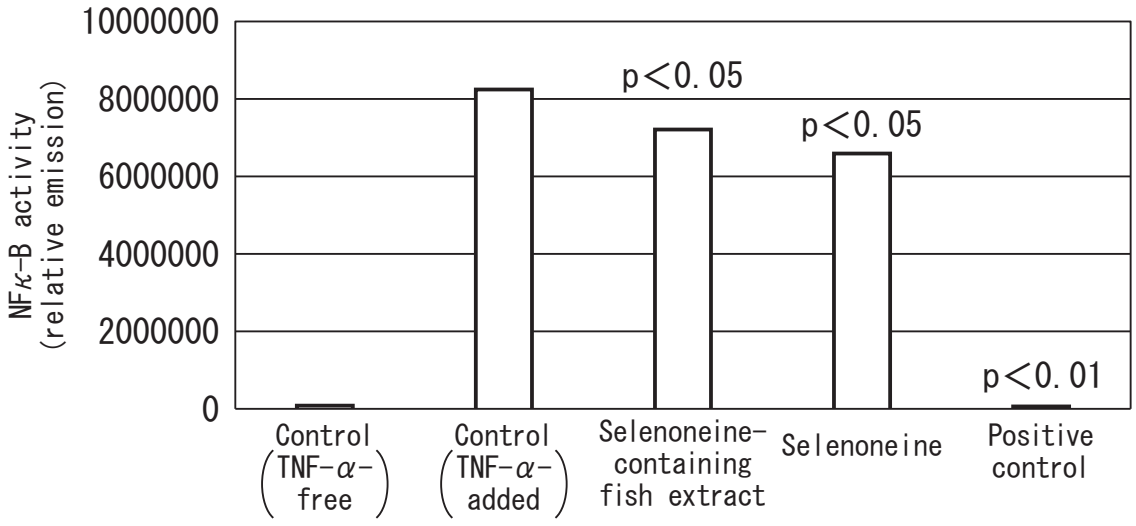

p<0.01
2.5
2
1.5
1
0.5
0
Gene expression(relative value)
Control
Selenoneine-containing fish extract

FIG. 14


10000000
8000000
6000000
4000000
2000000
0
NFκ-B activity (relative emission)
p<0.05
p<0.05
p<0.01
Control (TNF-α-free)
Control (TNF-α-added)
Selenoneine-containing fish extract
Selenoneine
Positive control