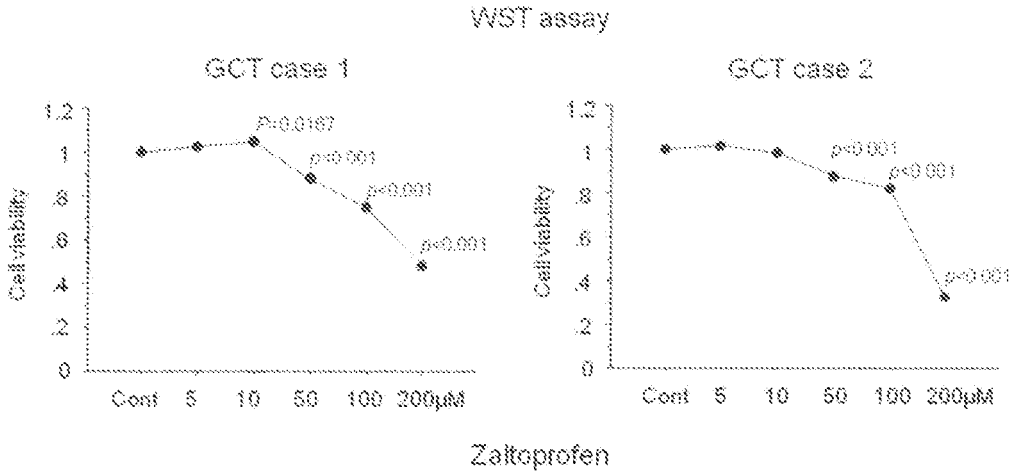
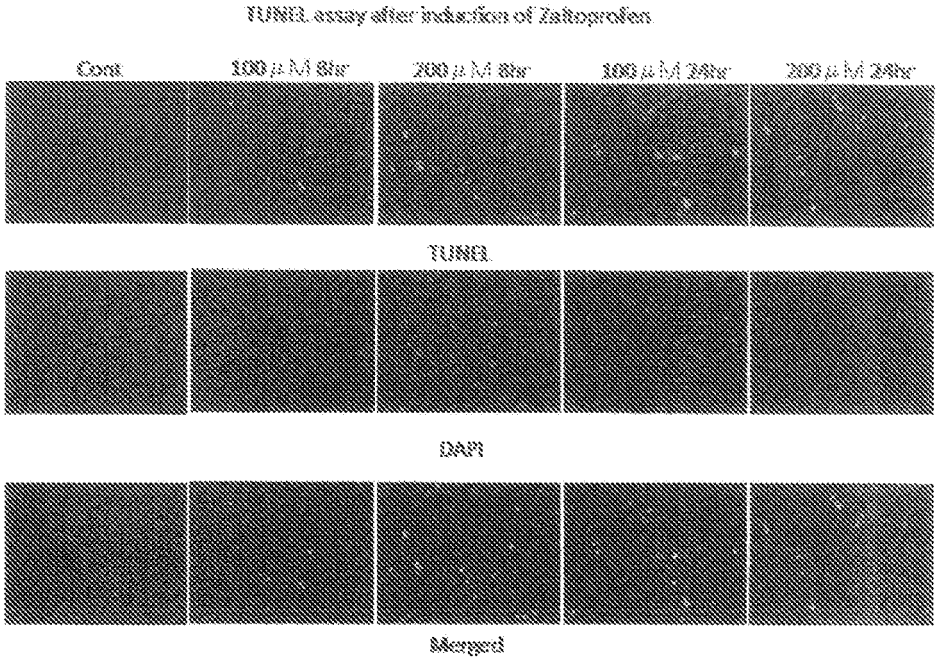
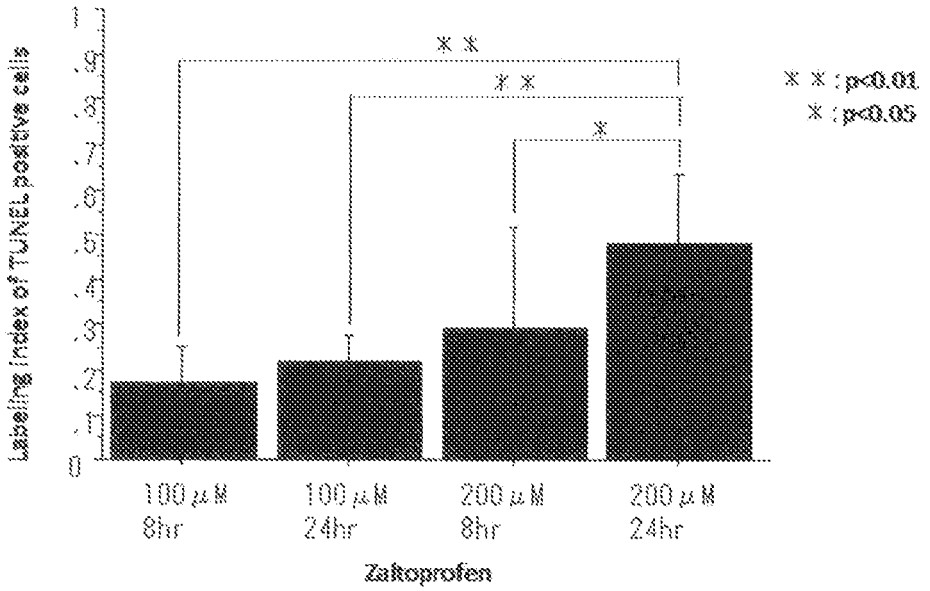
[図1]


WST assay
GCT case 1
GCT case 2
Cell viability
1.2
1
0.8
0.6
0.4
0.2
0
P<0.0167
P<0.001
P<0.001
P<0.001
P<0.001
P<0.001
P<0.001
Cont 5 10 50 100 200μM
Zaltoprofen

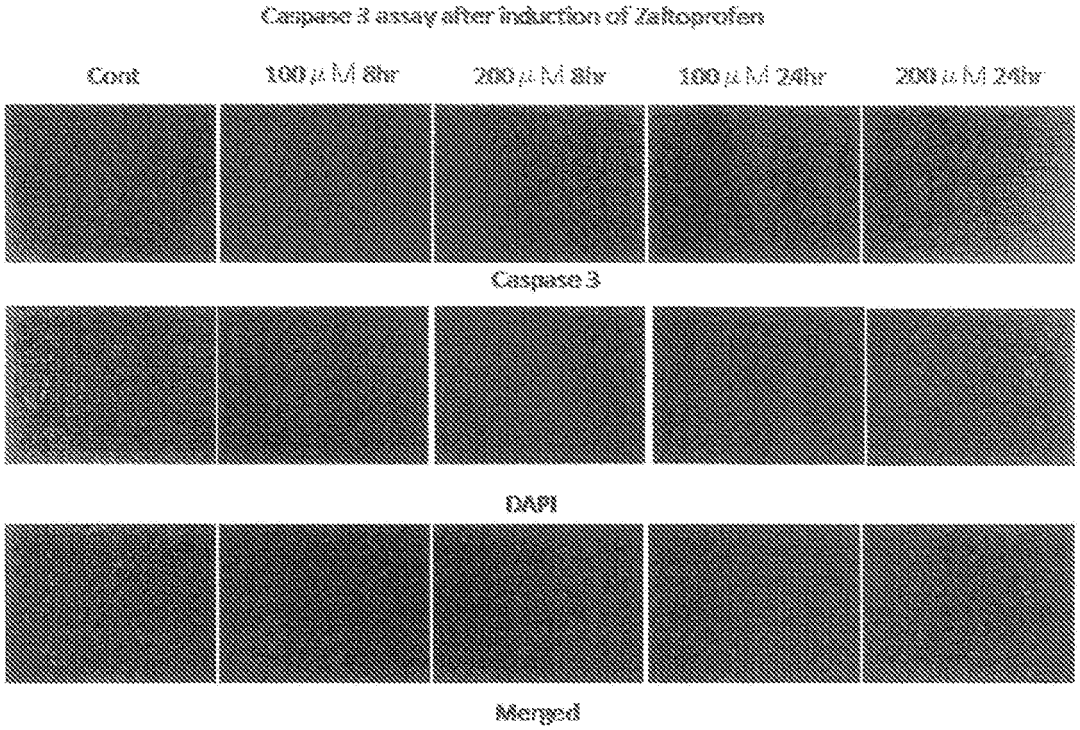
[図2]


TUNEL assay after induction of Zaltoprofen
Cont
100μM 8hr
200μM 8hr
100μM 24hr
200μM 24hr
TUNEL
DAPI
Merged

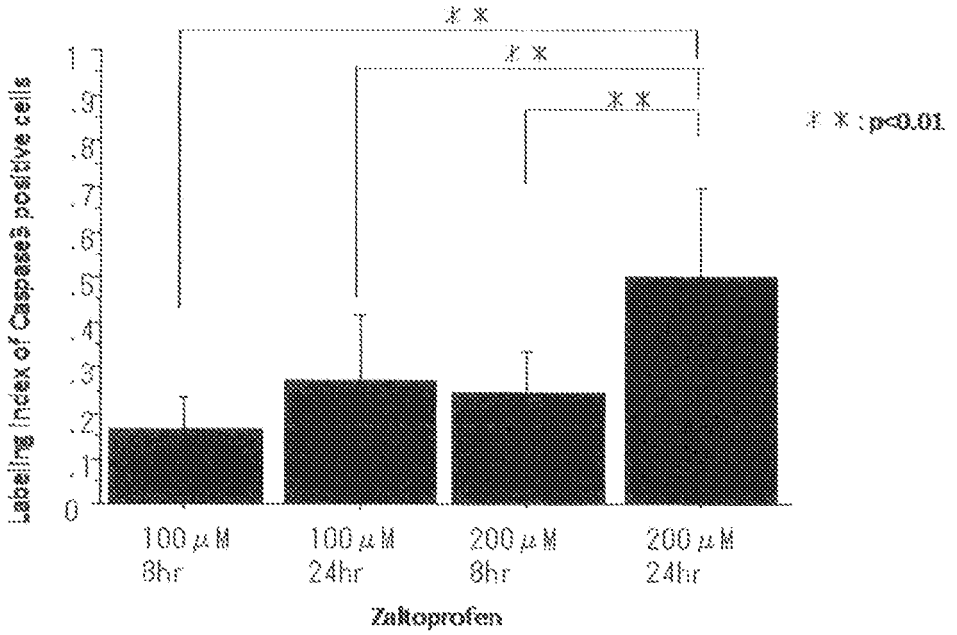
[図3]


Labeling index of TUNEL positive cells
0
100 μM 8hr
100 μM 24hr
200 μM 8hr
200 μM 24hr
Zaltoprofen
※※ : p<0.01
※ : p<0.05

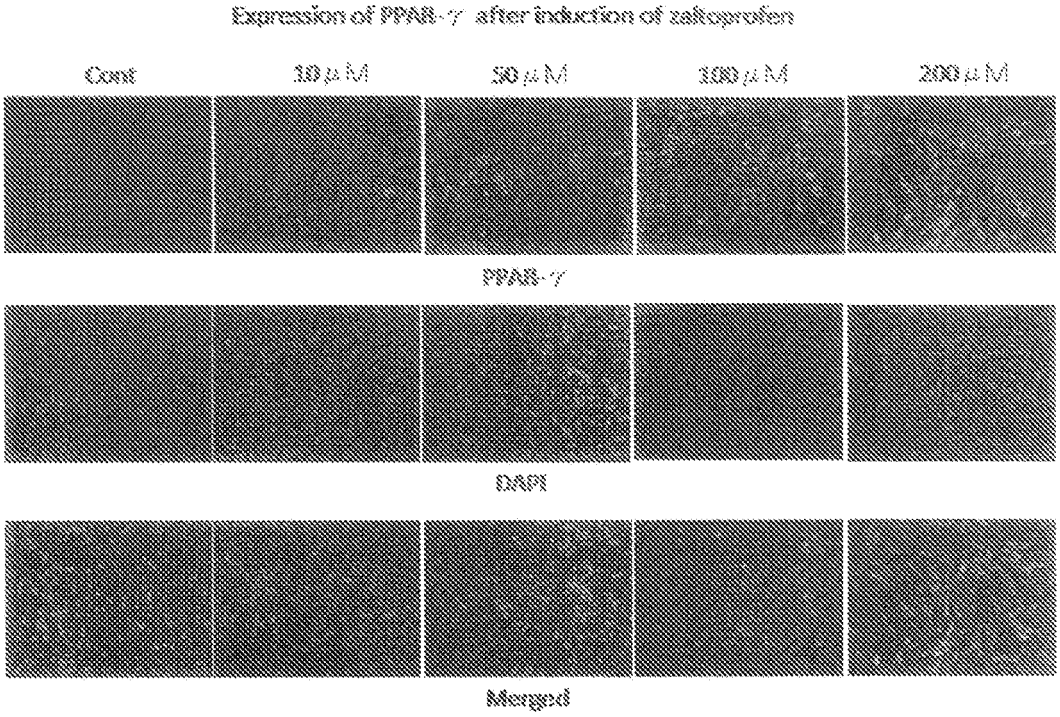
[図4]


Caspase 3 assay after induction of Zaltoprofen
Cont
100 μM 8hr
200 μM 8hr
100 μM 24hr
200 μM 24hr
Caspase 3
DAPI
Merged

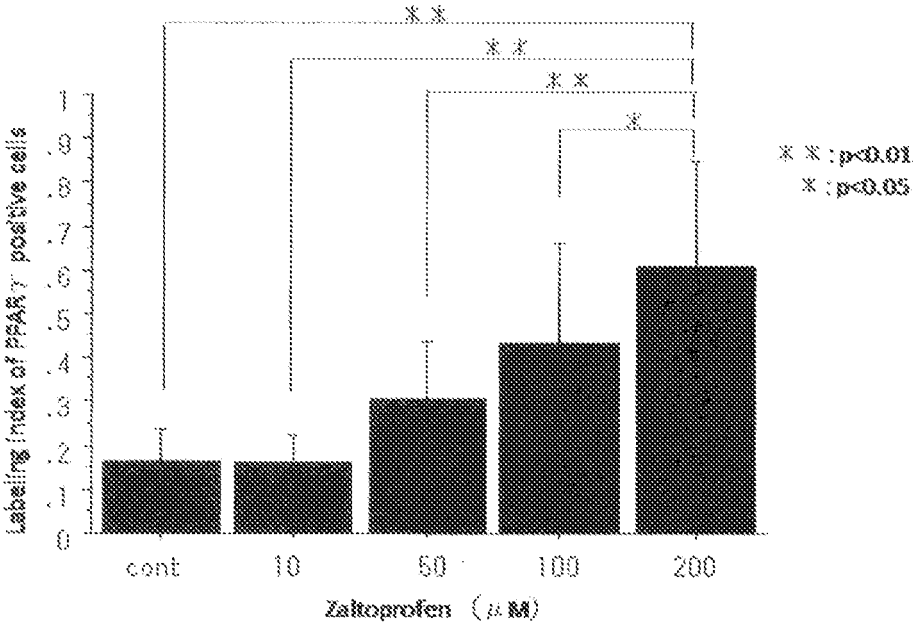
[図5]


＊＊
＊＊
＊＊
＊＊：p<0.01
Labeling index of Caspase3 positive cells
0
1
2
3
4
5
6
7
8
9
100μM 8hr
100μM 24hr
200μM 8hr
200μM 24hr
Zaltoprofen

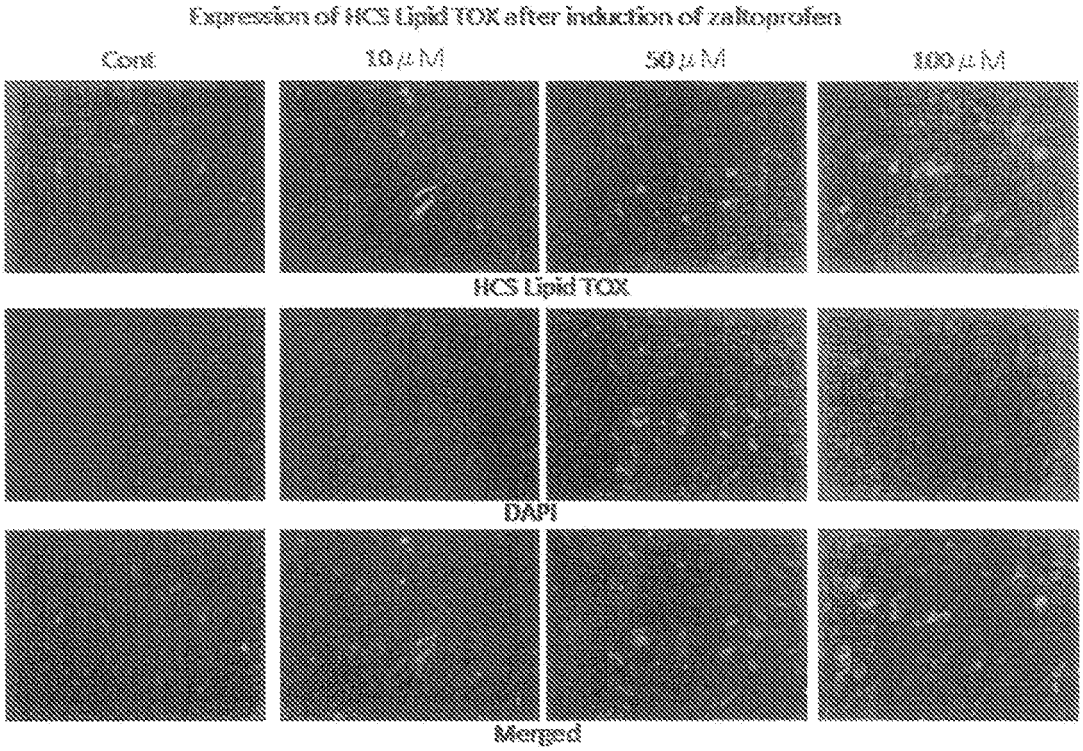
[図6]


Expression of PPARγ after induction of zaltoprofen
Cont
10μM
50μM
100μM
200μM
PPARγ
DAPI
Merged

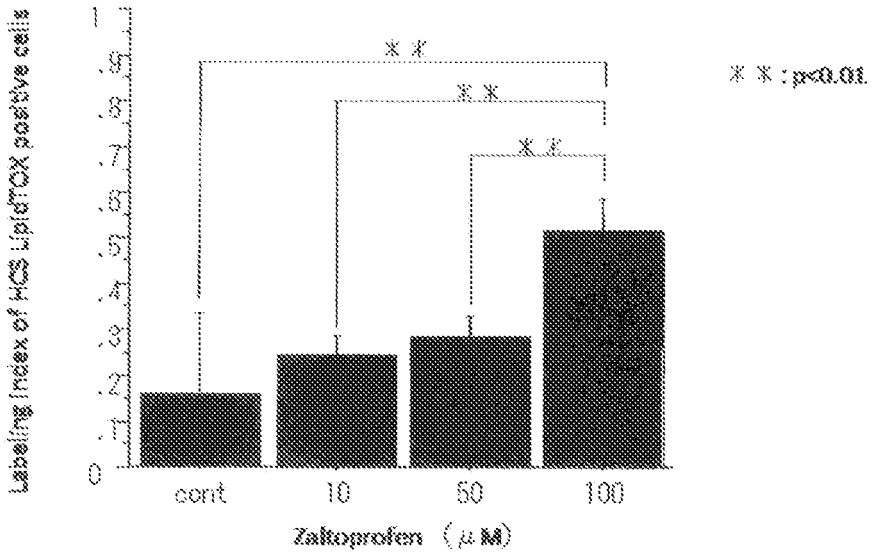
[図7]


＊＊
＊＊
＊＊
＊
＊＊：p<0.01
＊：p<0.05
Labelling index of PPARγ positive cells
0
.1
.2
.3
.4
.5
.6
.7
.8
.9
1
cont
10
50
100
200
Zaltoprofen （μM）

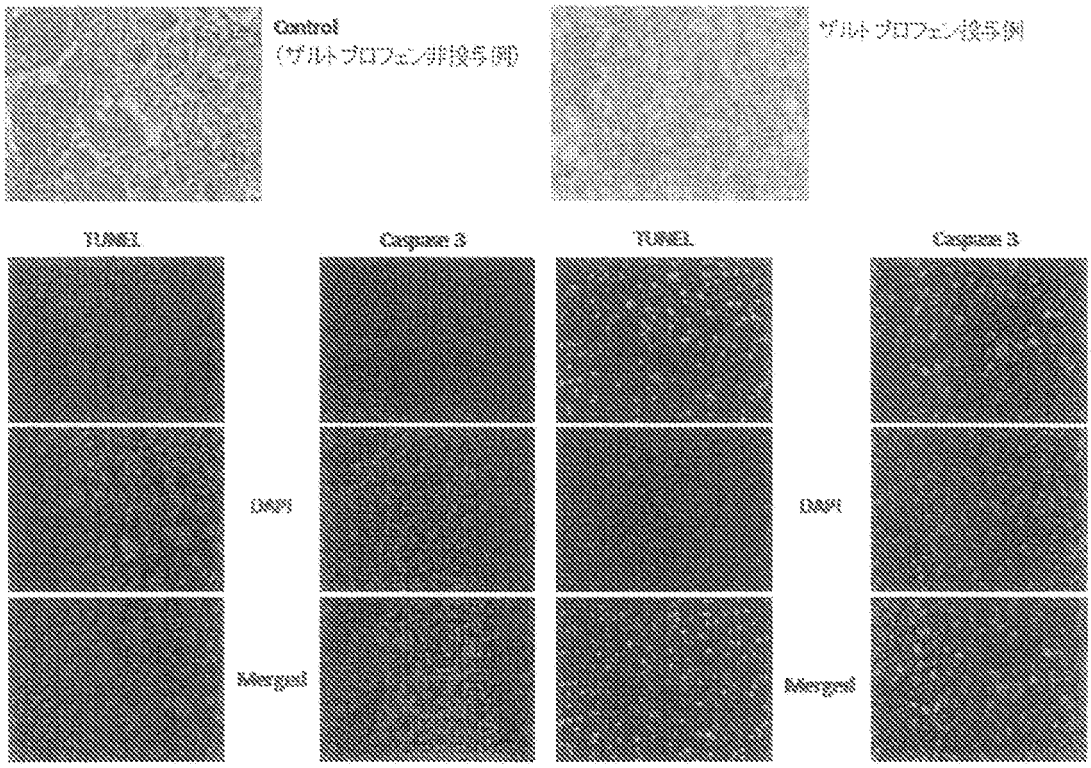
[図8]


Expression of HCS Lipid TOX after induction of zaltoprofen
Cont
10μM
50μM
100μM
HCS Lipid TOX
DAPI
Merged

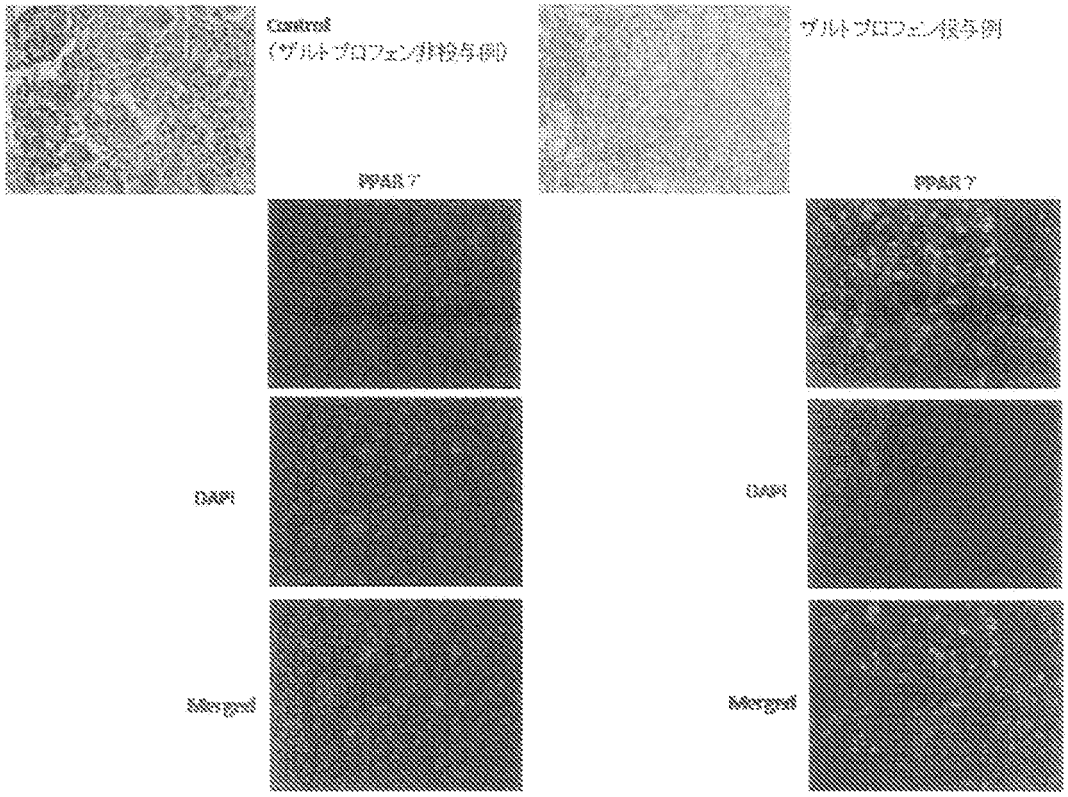
[図9]


Labeling Index of HCS LipidTOX positive cells
0
cont
10
50
100
Zaltoprofen （μM）
＊＊
＊＊
＊＊
＊＊：p<0.01

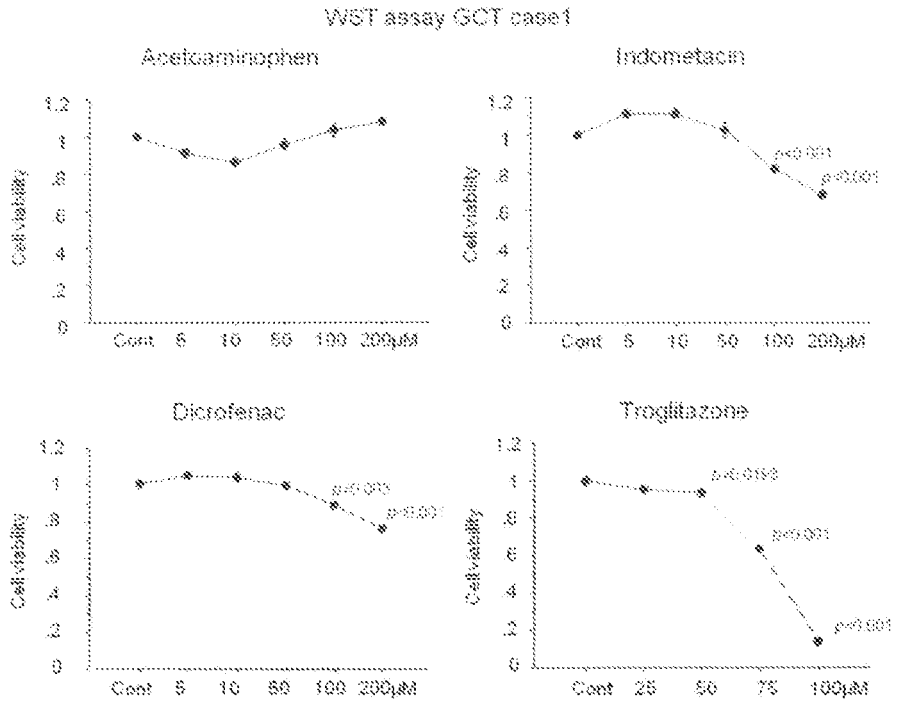
[図10]


Control
（ザルトプロフェン非投与例）
ザルトプロフェン投与例
TUNEL
Caspase 3
TUNEL
Caspase 3
DAPI
DAPI
Merged
Merged

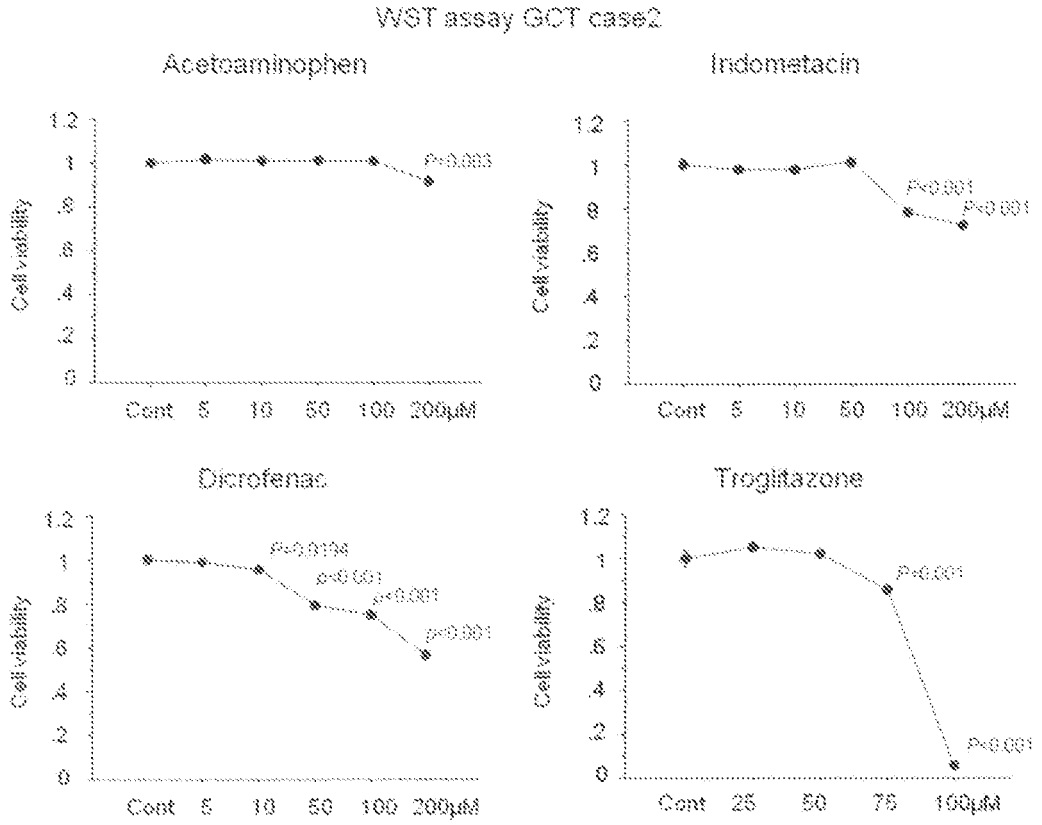
[図11]


Control
(ザルトプロフェン非投与例)
ザルトプロフェン投与例
PPARγ
DAPI
Merged
PPARγ
DAPI
Merged

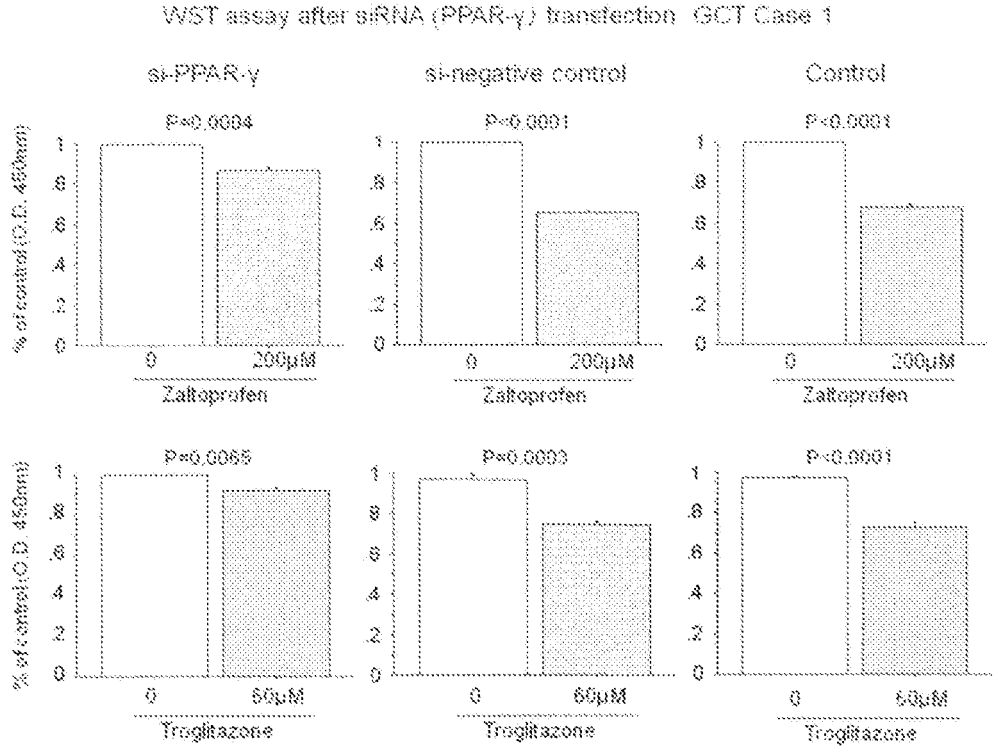
[図12]


WST assay GCT case1
Acetaminophen
Indometacin
Diclofenac
Troglitazone
Cell viability
Cont 5 10 50 100 200μM
Cont 25 50 75 100μM

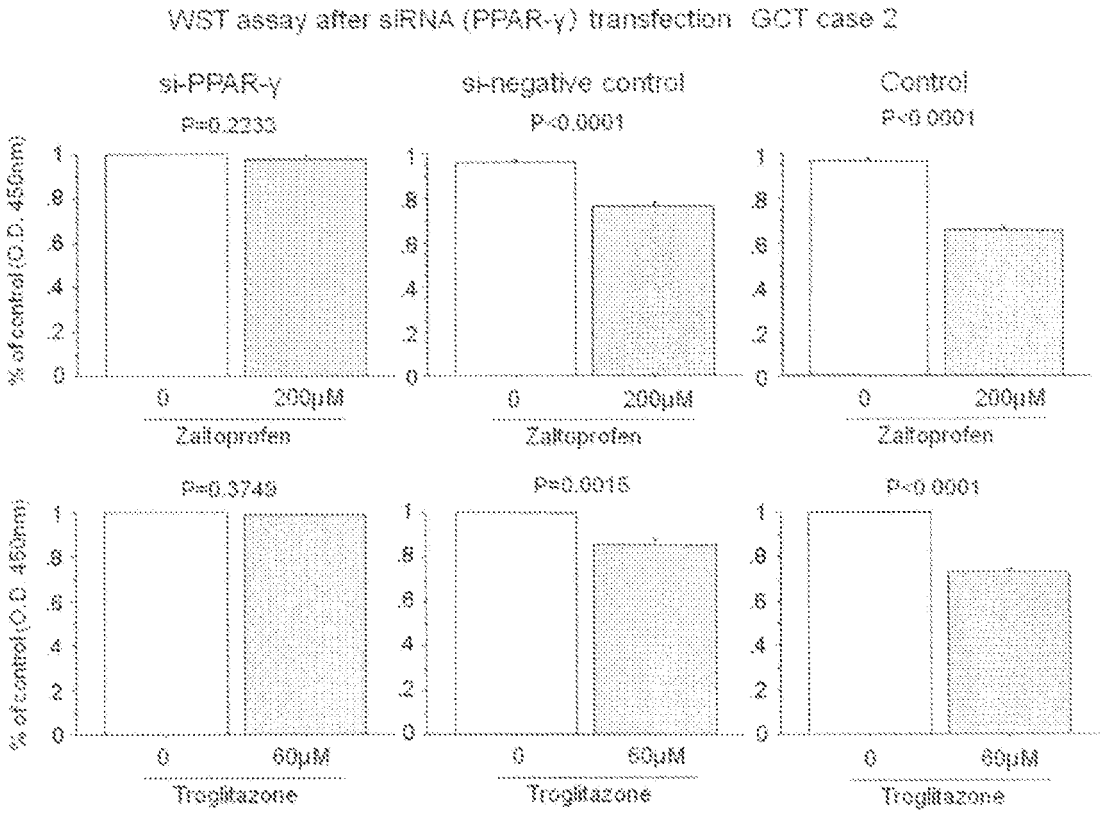
[図13]


WST assay GCT case2
Acetoaminophen
Indometacin
Diclofenac
Troglitazone
Cell viability
Cont 5 10 50 100 200μM
Cont 25 50 75 100μM
P=0.003
P<0.001
P=0.0194
P<0.001

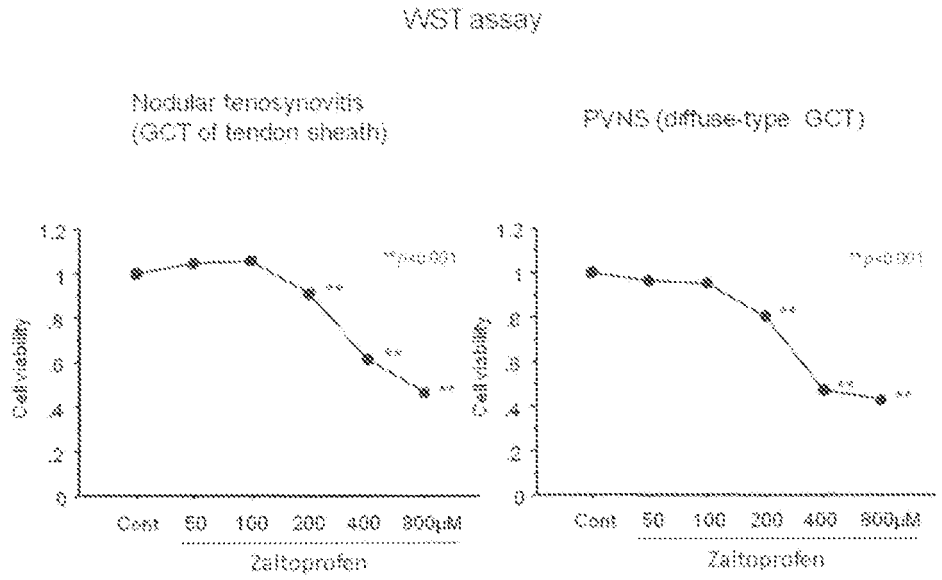
[図14]


WST assay after siRNA (PPAR-γ) transfection GCT Case 1
si-PPAR-γ
si-negative control
Control
% of control(O.D. 450nm)
P=0.0004
P<0.0001
P=0.0065
P=0.0003
0 200μM
0 60μM
Zaltoprofen
Troglitazone

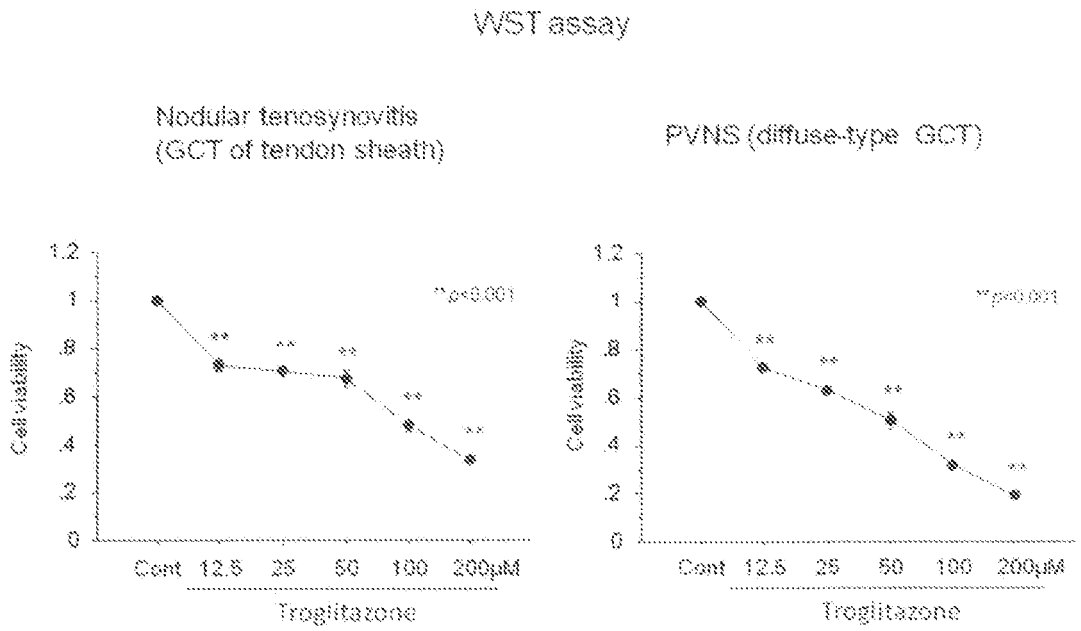
[図15]


WST assay after siRNA (PPAR-γ) transfection GCT case 2
si-PPAR-γ
si-negative control
Control
P=0.2233
P<0.0001
P<0.0001
P=0.3749
P=0.0015
P<0.0001
% of control (O.D. 450nm)
0
200μM
Zaltoprofen
0
60μM
Troglitazone

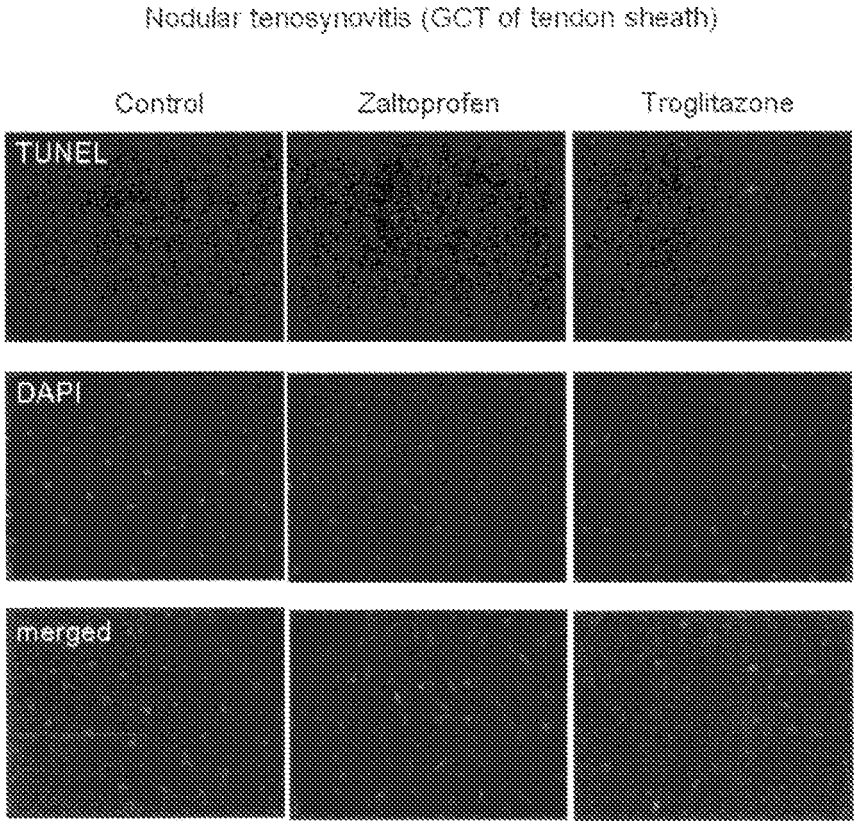
[図16]


WST assay
Nodular tenosynovitis
(GCT of tendon sheath)
PVNS (diffuse-type GCT)
Cell viability
Cont
50
100
200
400
800μM
Zaltoprofen

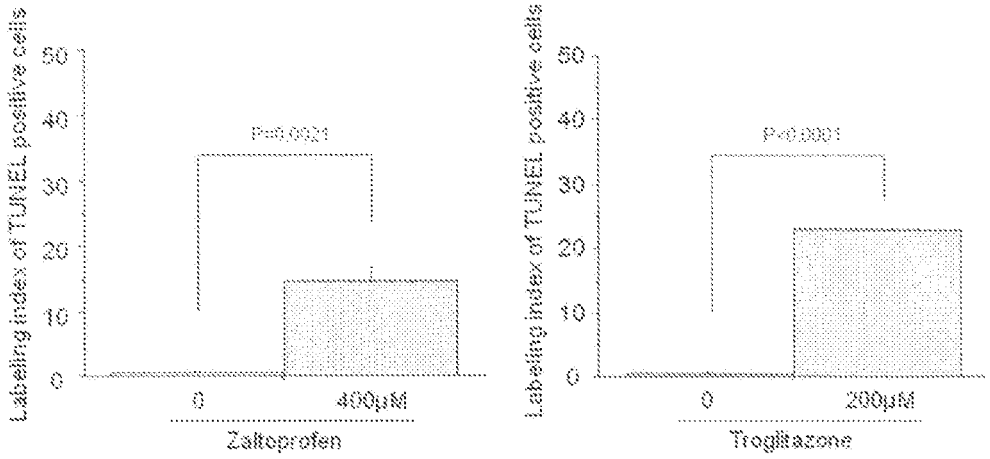
[図17]


WST assay
Nodular tenosynovitis
(GCT of tendon sheath)
PVNS (diffuse-type GCT)
Cell viability
1.2
1
.8
.6
.4
.2
0
**p<0.001
**p<0.001
**
Cont 12.5 25 50 100 200μM
Troglitazone
Cont 12.5 25 50 100 200μM
Troglitazone

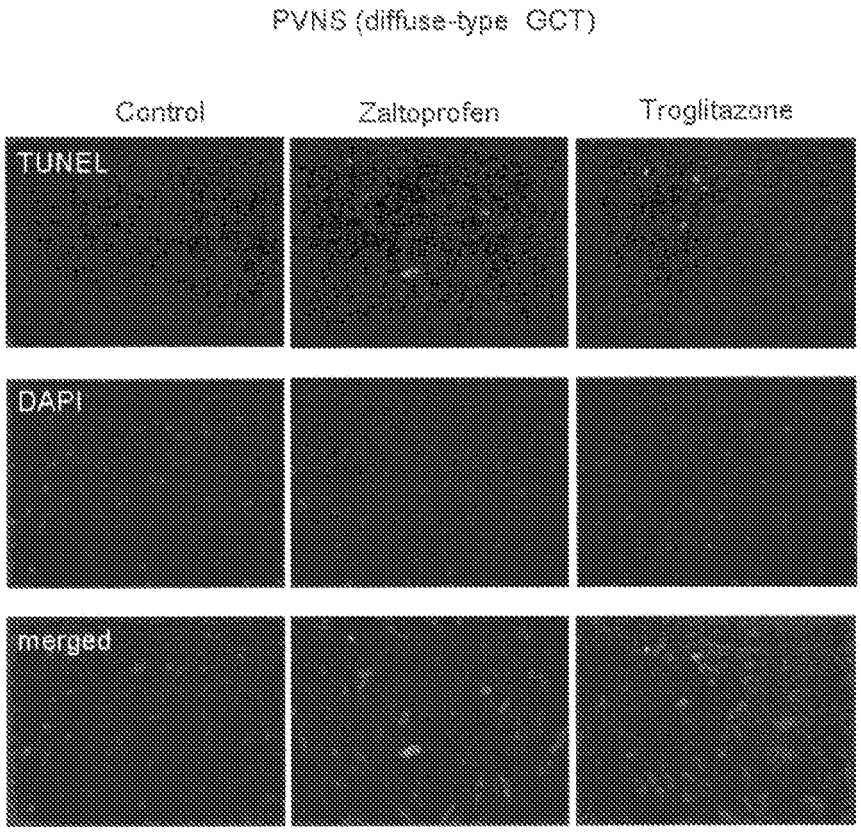
[図18]


Nodular tenosynovitis (GCT of tendon sheath)
Control
Zaltoprofen
Troglitazone
TUNEL
DAPI
merged

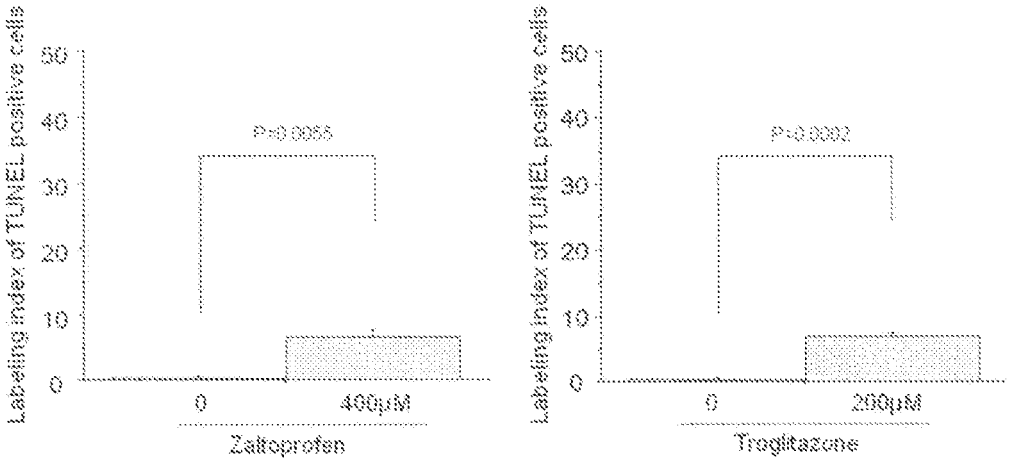
[図19]


Labeling index of TUNEL positive cells
50
40
30
20
10
0
P=0.0021
0
400μM
Zaltoprofen
Labeling index of TUNEL positive cells
50
40
30
20
10
0
P<0.0001
0
200μM
Troglitazone

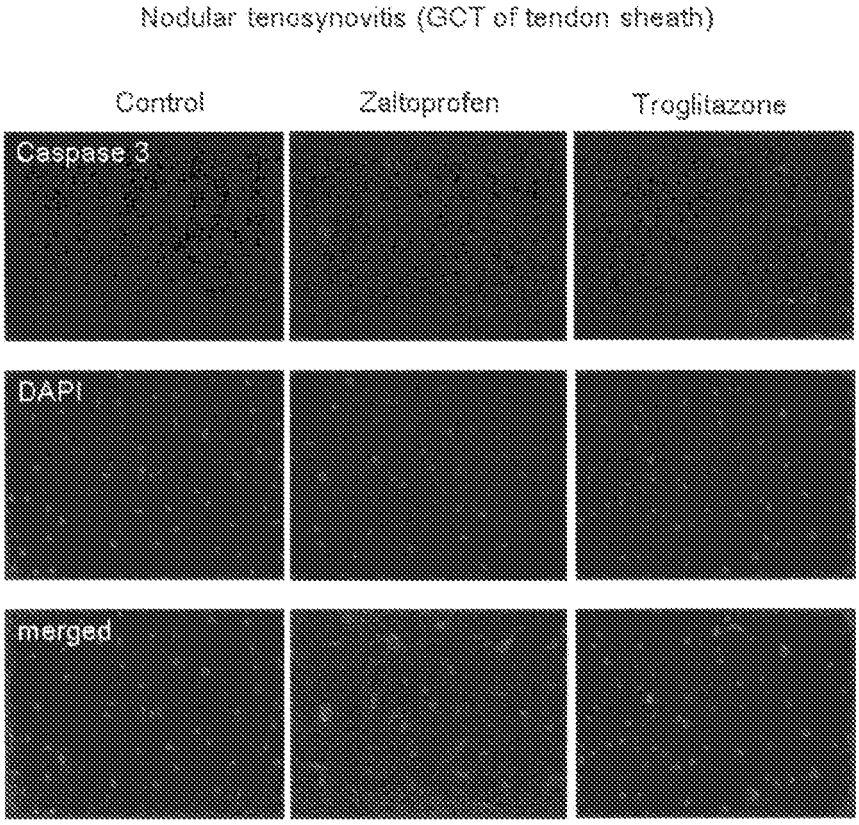
[図20]


PVNS (diffuse-type GCT)
Control
Zaltoprofen
Troglitazone
TUNEL
DAPI
merged

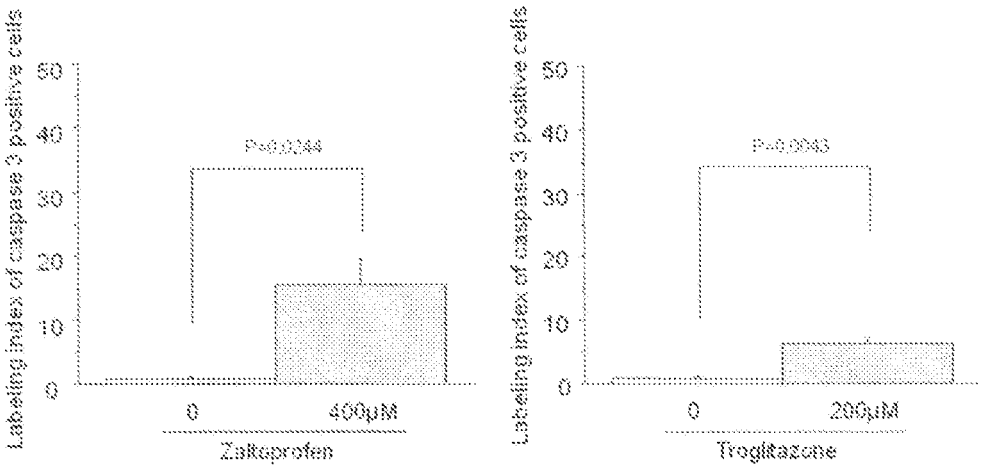
[図21]


Labeling index of TUNEL positive cells
50
40
30
20
10
0
P=0.0055
0
400μM
Zaltoprofen
Labeling index of TUNEL positive cells
50
40
30
20
10
0
P=0.0002
0
200μM
Troglitazone

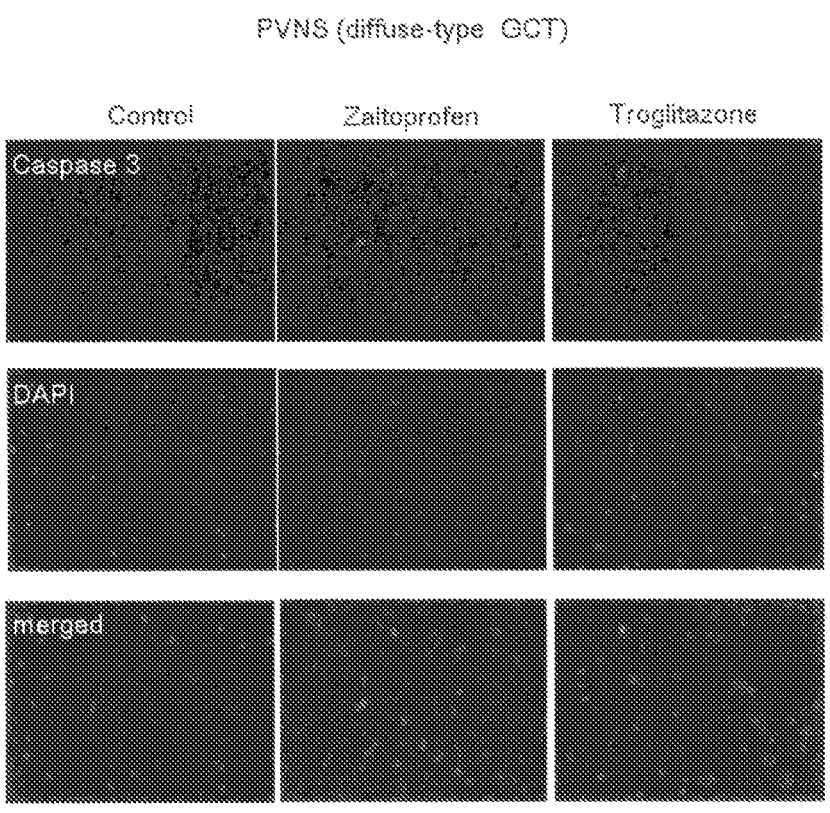
[図22]


Nodular tenosynovitis (GCT of tendon sheath)
Control
Zaltoprofen
Troglitazone
Caspase 3
DAPI
merged

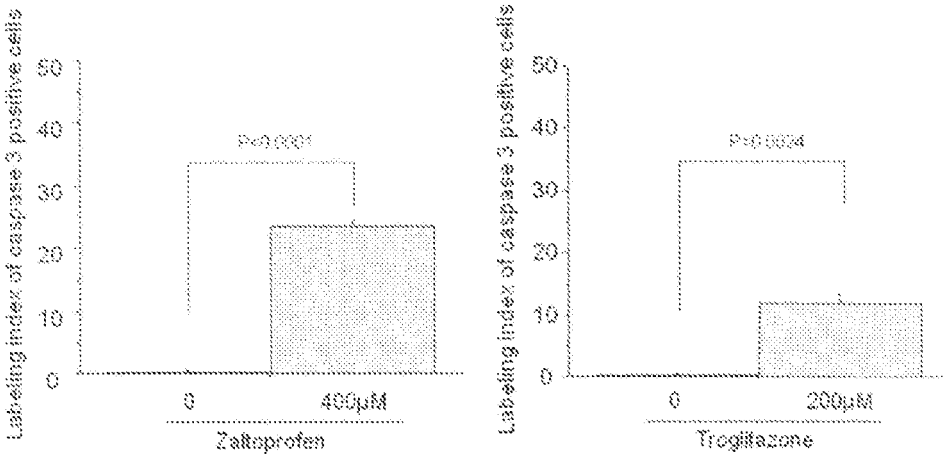
[図23]


Labeling index of caspase 3 positive cells
50
40
30
20
10
0
P=0.0244
0
400μM
Zaltoprofen
Labeling index of caspase 3 positive cells
50
40
30
20
10
0
P=0.0043
0
200μM
Troglitazone

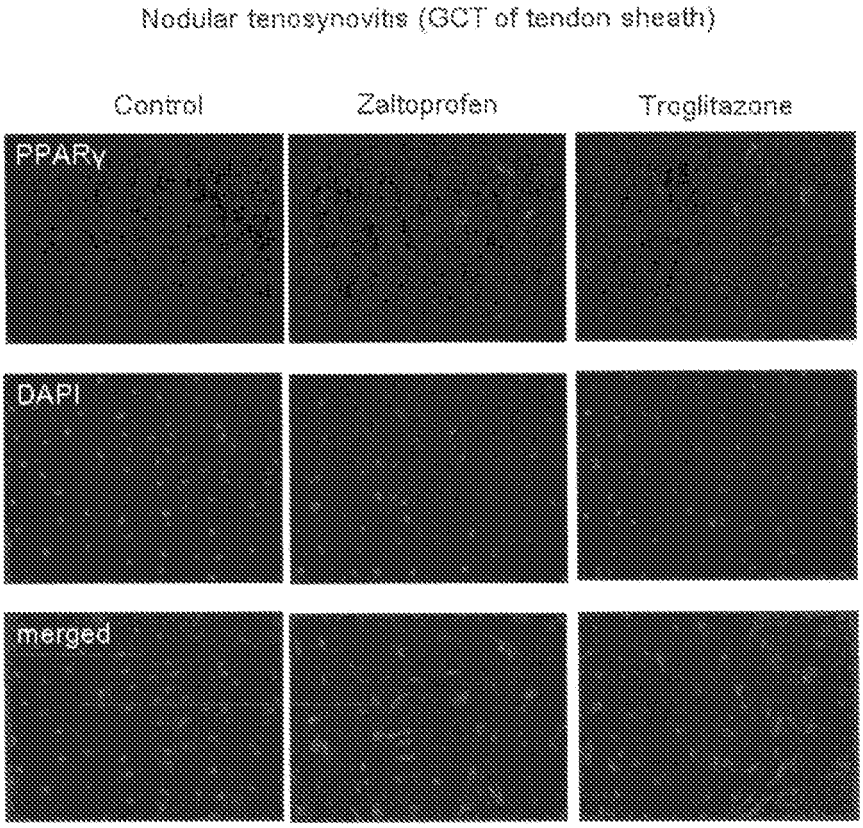
[図24]


PVNS (diffuse-type GCT)
Control
Zaltoprofen
Troglitazone
Caspase 3
DAPI
merged

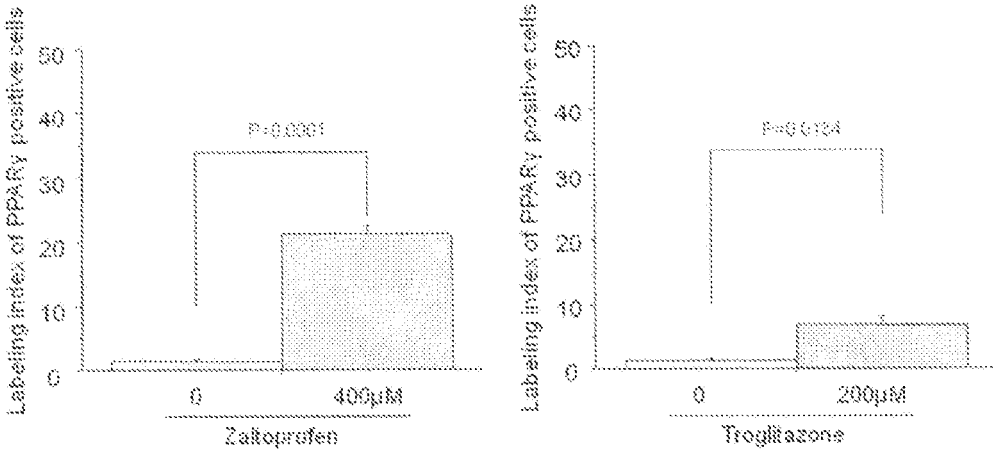
[図25]


Labeling index of caspase 3 positive cells
50
40
30
20
10
0
P<0.0001
0
400μM
Zaltoprofen
Labeling index of caspase 3 positive cells
50
40
30
20
10
0
P<0.0024
0
200μM
Troglitazone

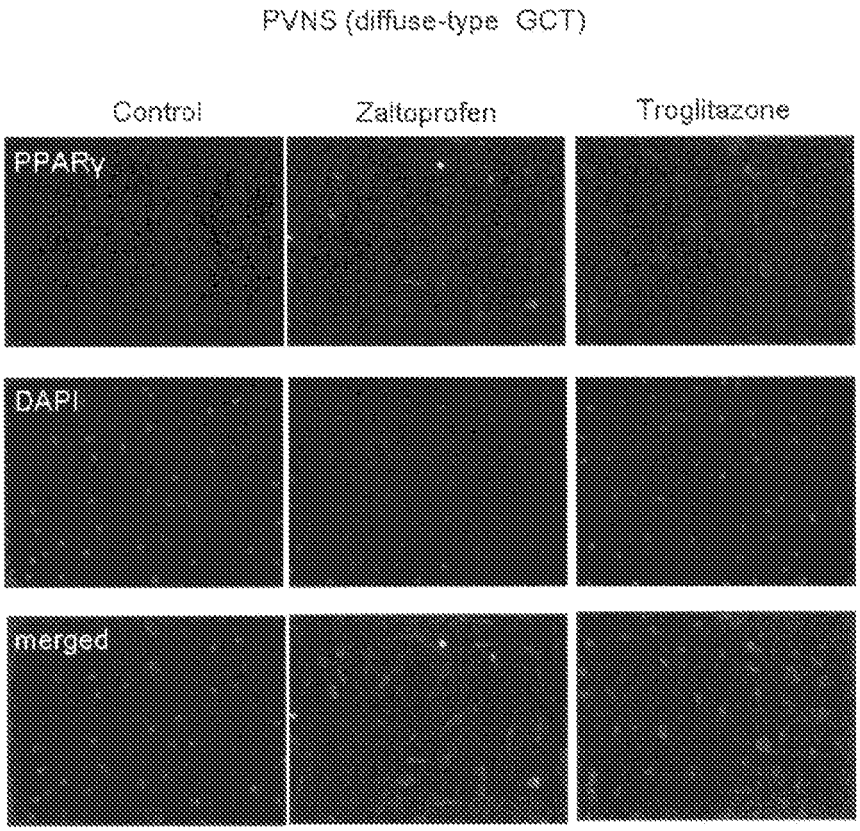
[図26]


Nodular tenosynovitis (GCT of tendon sheath)
Control
Zaltoprofen
Troglitazone
PPARγ
DAPI
merged

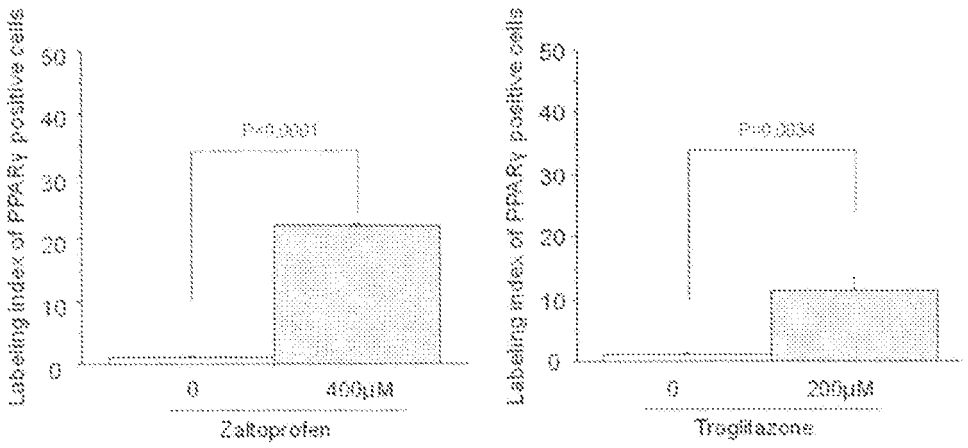
[図27]


Labeling index of PPARγ positive cells
50
40
30
20
10
0
P=0.0001
0
400μM
Zaltoprofen
Labeling index of PPARγ positive cells
50
40
30
20
10
0
P=0.0124
0
200μM
Troglitazone

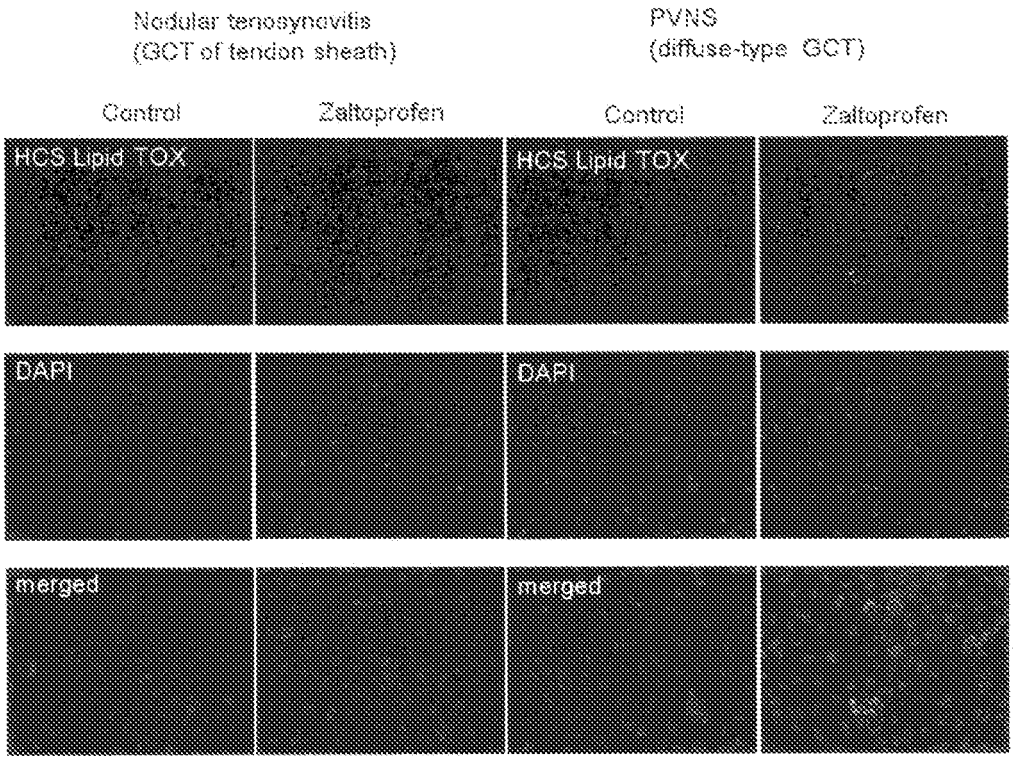
[図28]


PVNS (diffuse-type GCT)
Control
Zaltoprofen
Troglitazone
PPARγ
DAPI
merged

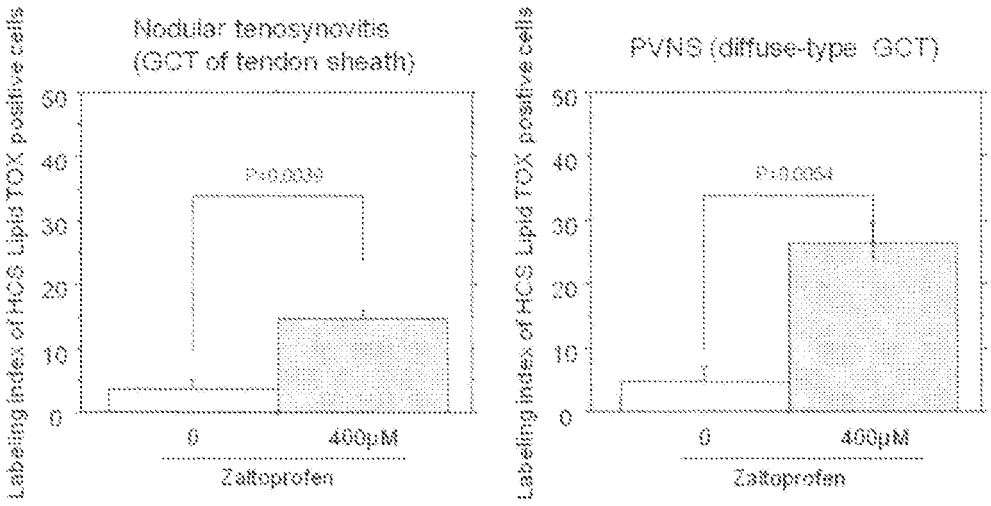
[図29]


Labeling index of PPARγ positive cells
50
40
30
20
10
0
P=0.0001
0
400μM
Zaltoprofen
Labeling index of PPARγ positive cells
50
40
30
20
10
0
P=0.0034
0
200μM
Troglitazone

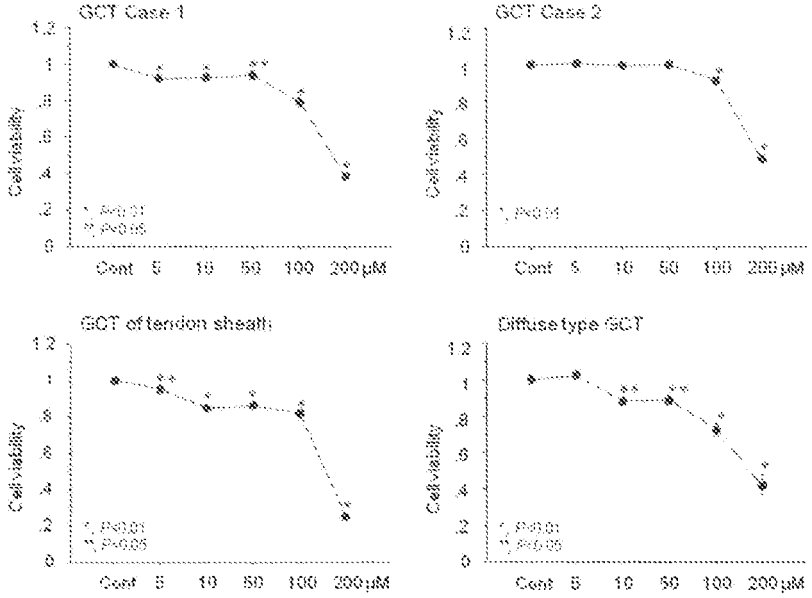
[図30]


Nodular tenosynovitis
(GCT of tendon sheath)
PVNS
(diffuse-type GCT)
Control
Zaltoprofen
Control
Zaltoprofen
HCS Lipid TOX
HCS Lipid TOX
DAPI
DAPI
merged
merged

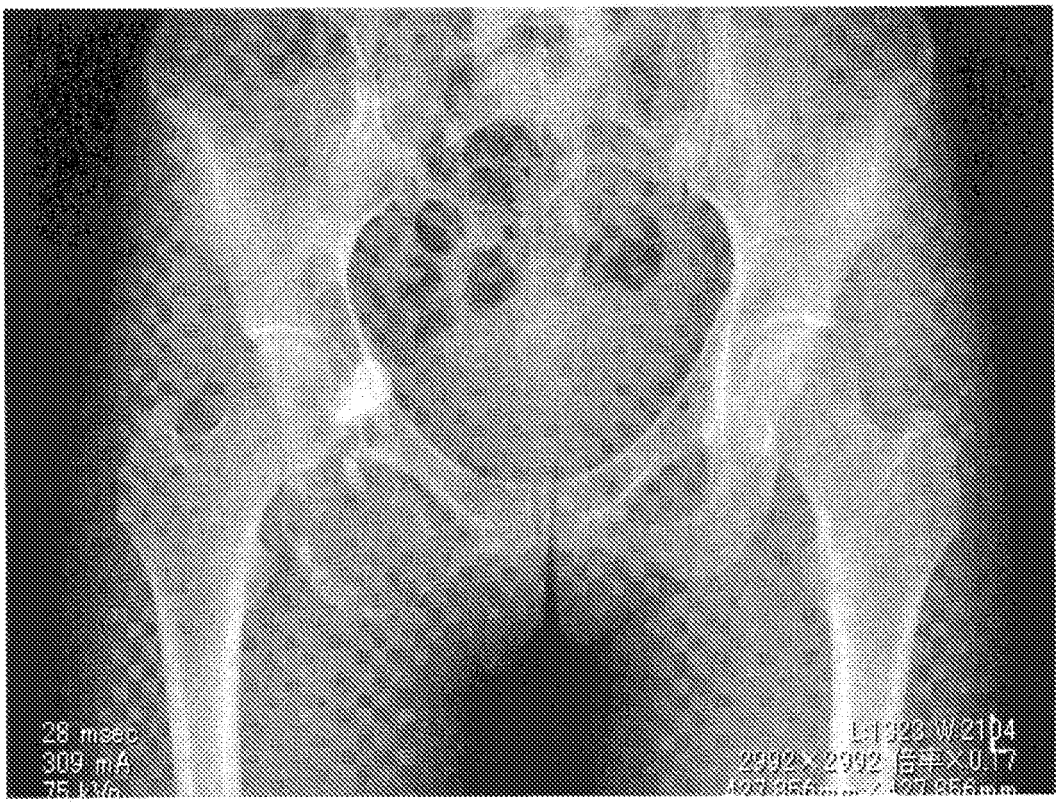
[図31]


Nodular tenosynovitis
(GCT of tendon sheath)
Labeling index of HCS Lipid TOX positive cells
50
40
30
20
10
0
P=0.0039
0
400μM
Zaltoprofen
PVNS (diffuse-type GCT)
Labeling index of HCS Lipid TOX positive cells
50
40
30
20
10
0
P=0.0054
0
400μM
Zaltoprofen

[図32]


GCT Case 1
Cell viability
1.2
1
0.8
0.6
0.4
0.2
0
Cont 5 10 50 100 200μM
GCT Case 2
Cell viability
1.2
1
0.8
0.6
0.4
0.2
0
Cont 5 10 50 100 200μM
GCT of tendon sheath
Cell viability
1.2
1
0.8
0.6
0.4
0.2
0
Cont 5 10 50 100 200μM
Diffuse type GCT
Cell viability
1.2
1
0.8
0.6
0.4
0.2
0
Cont 5 10 50 100 200μM

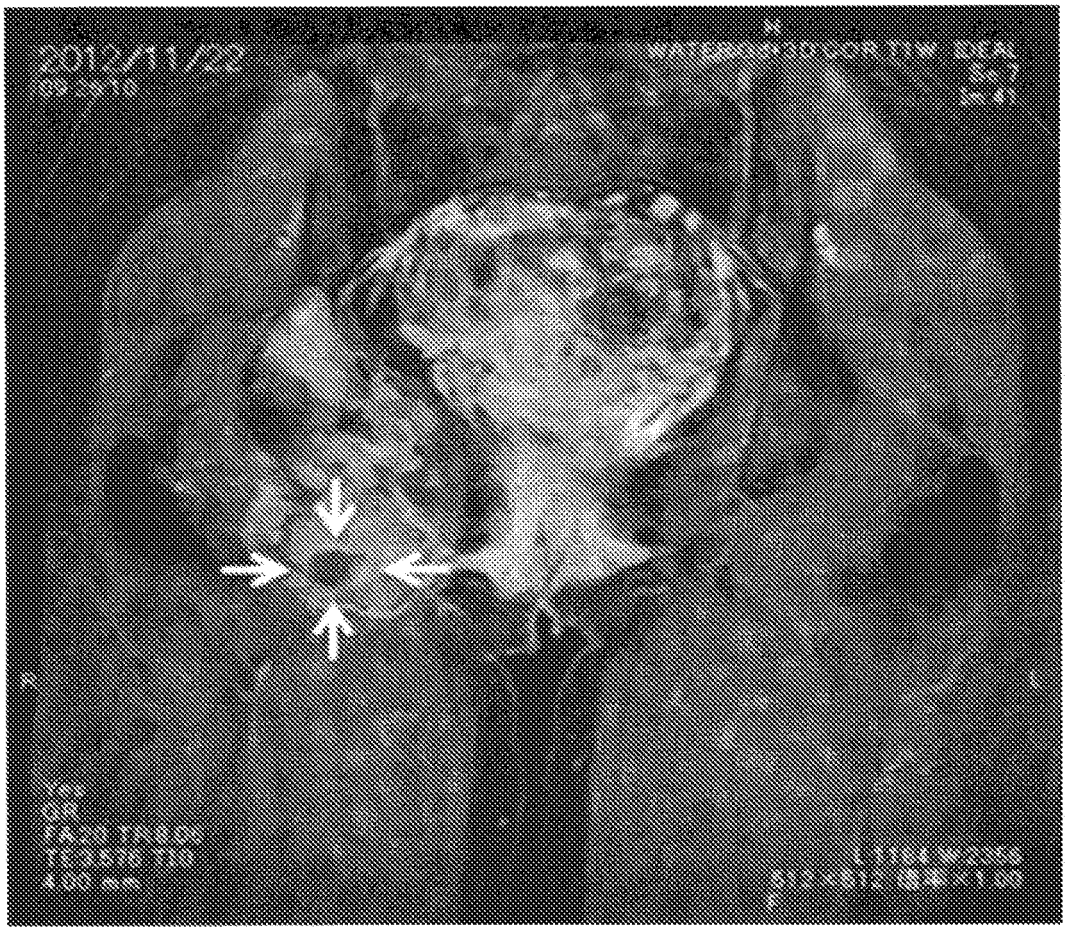
[図33]



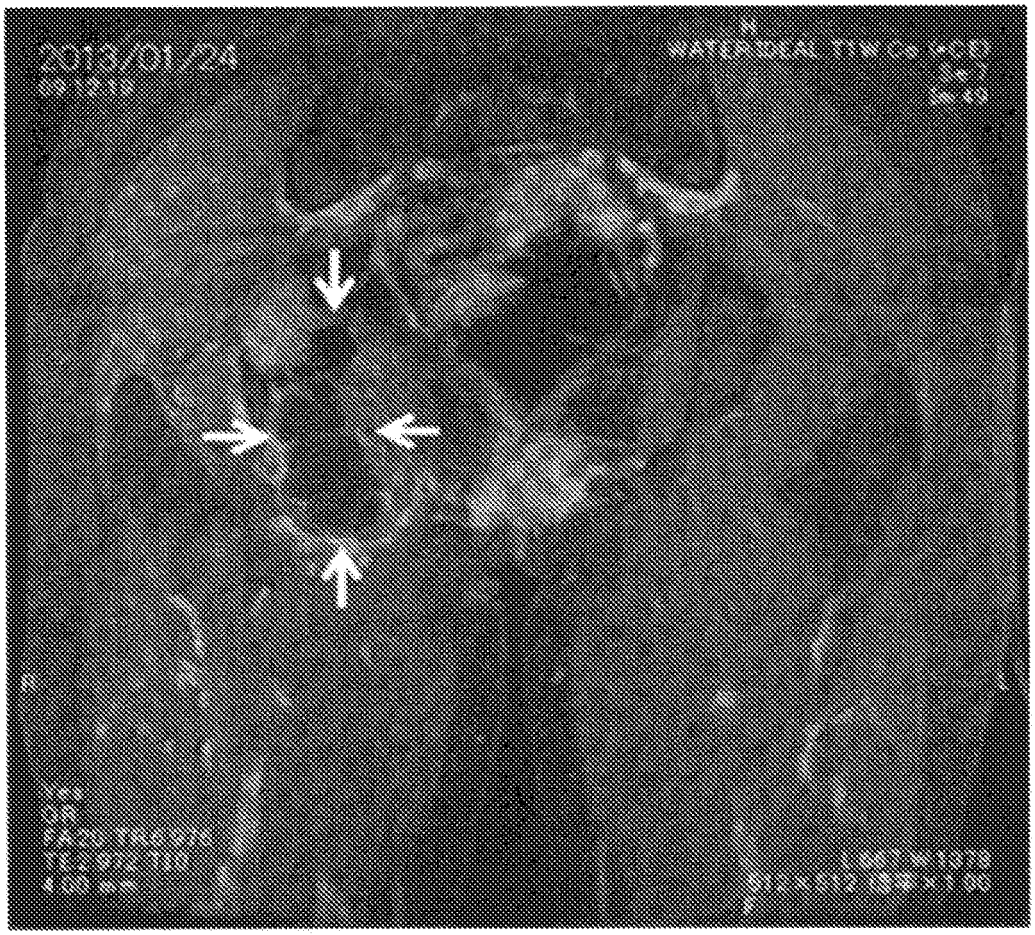
[図34]



[図35]



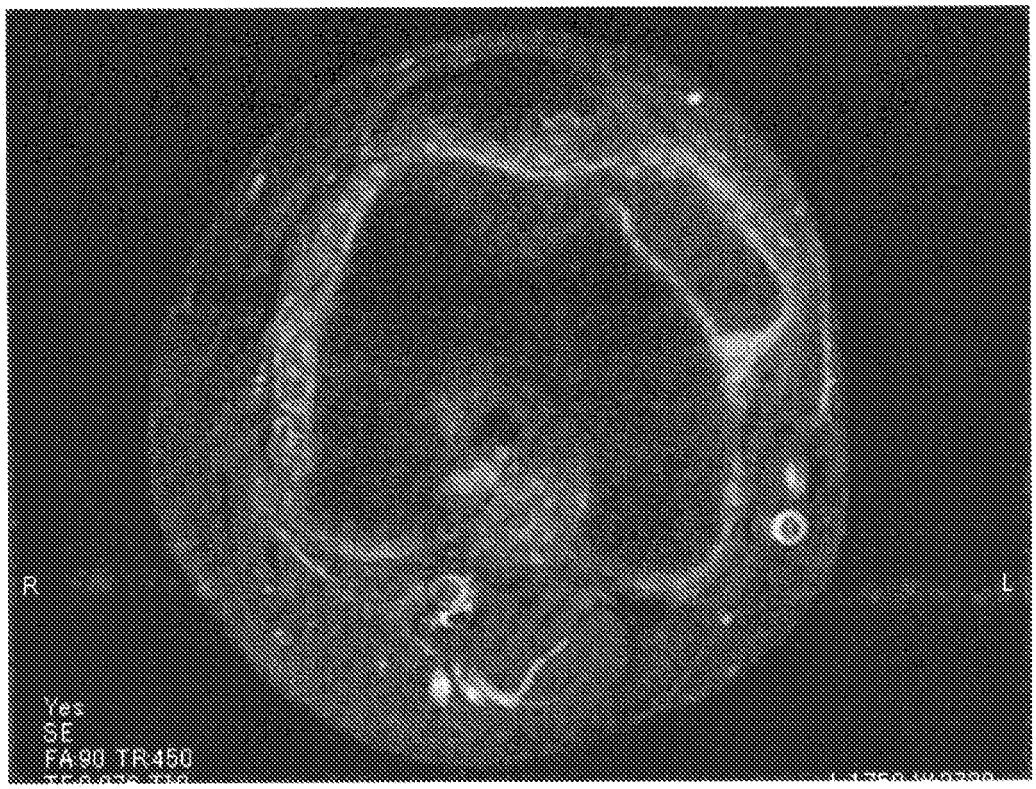
[図36]



[図37]


2012/07/05
15:40:36
H
Gdt* T1 sag FS
Se 11
Im 10
A
P
Yes
SE
FA 90 TR 616.668
TE 8.124 TI 0
4.00 mm
L 1496 W 2946
512 × 512 倍率 1.00
F

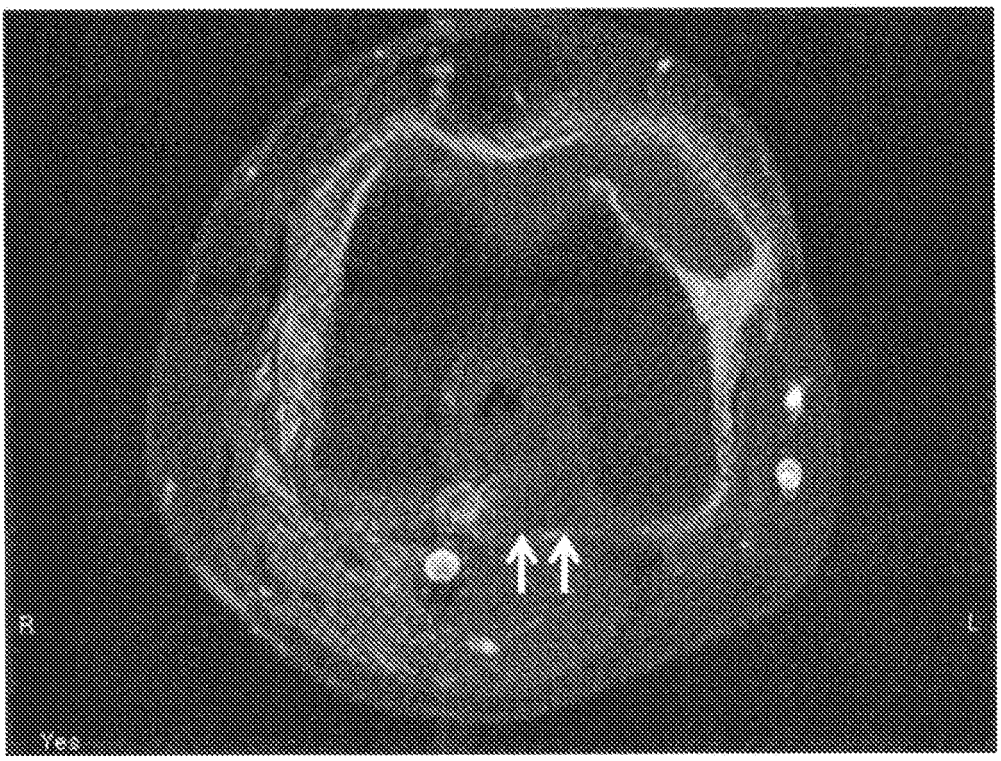
[図38]



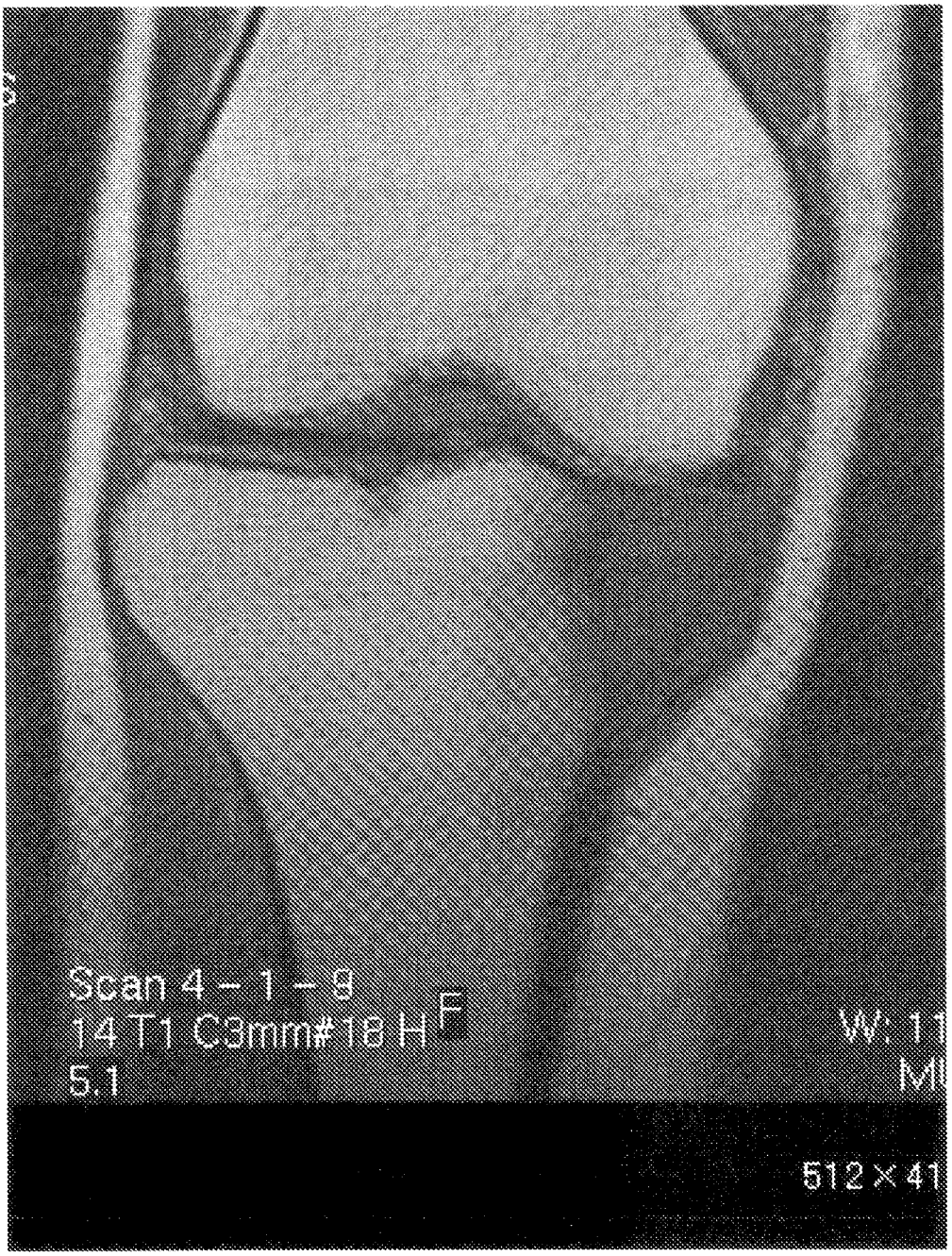
[図39]



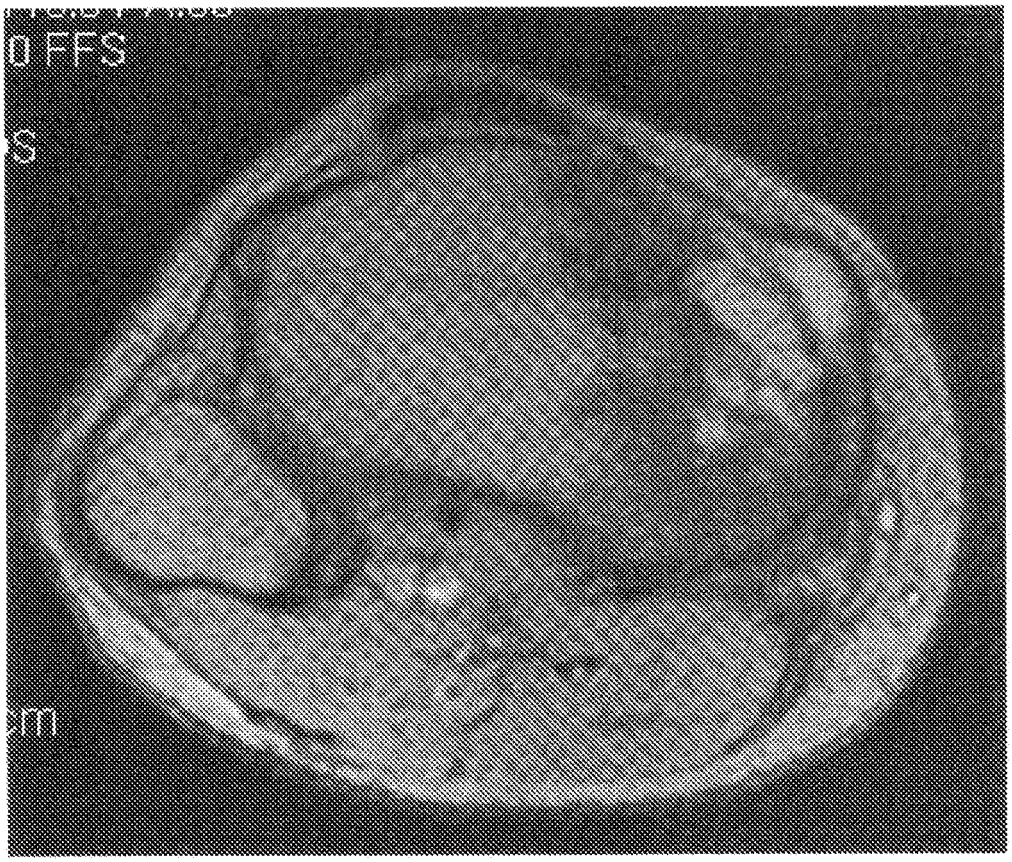
[図40]



[図41]



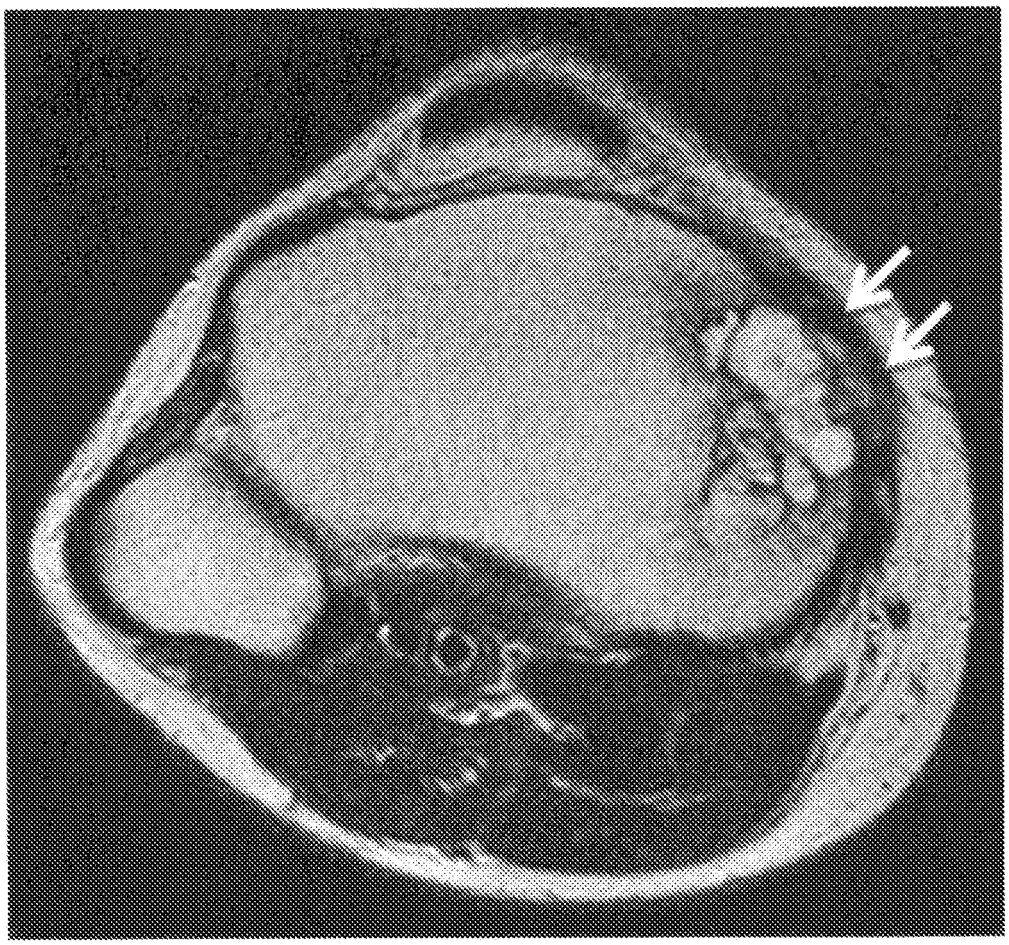
[図42]



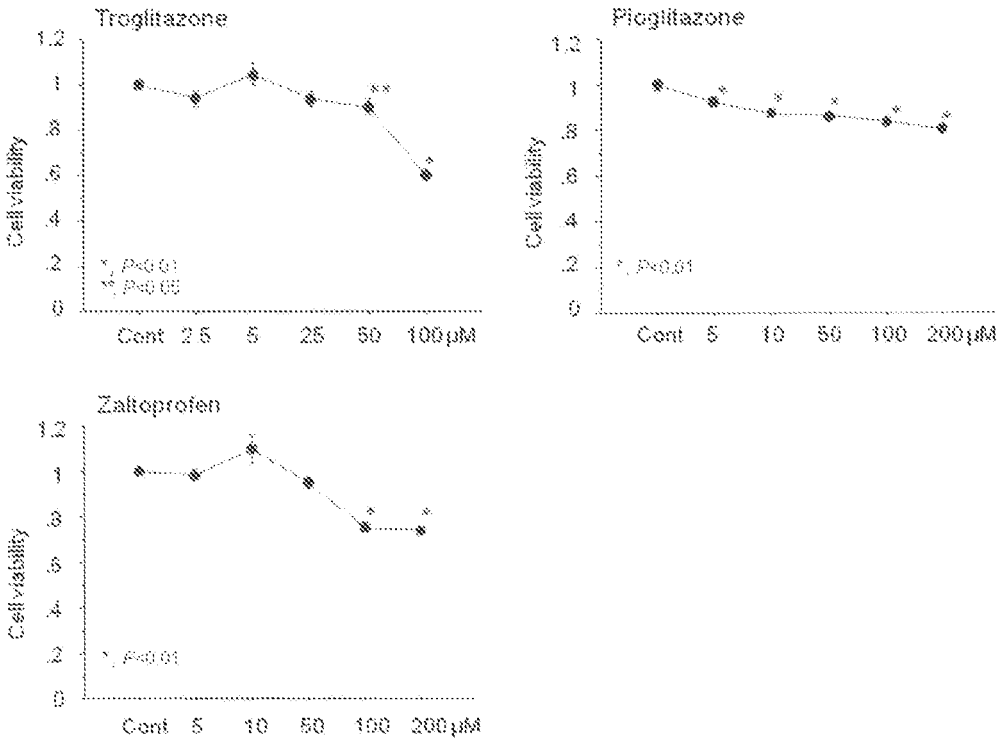
[図43]



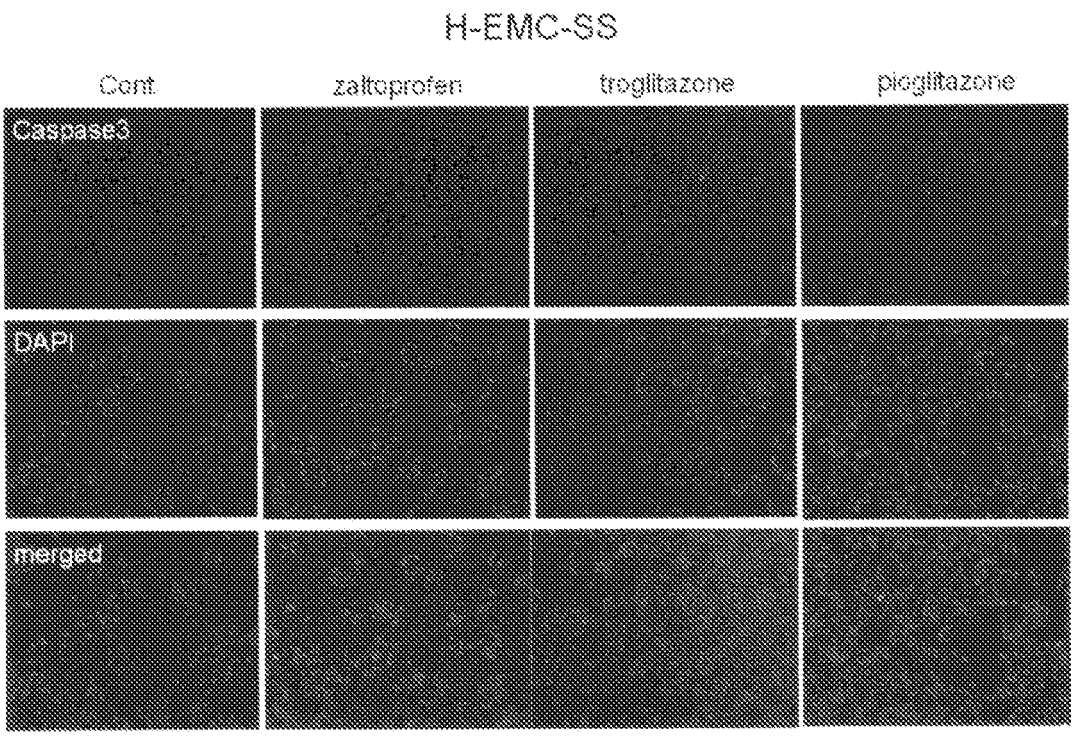
[図44]



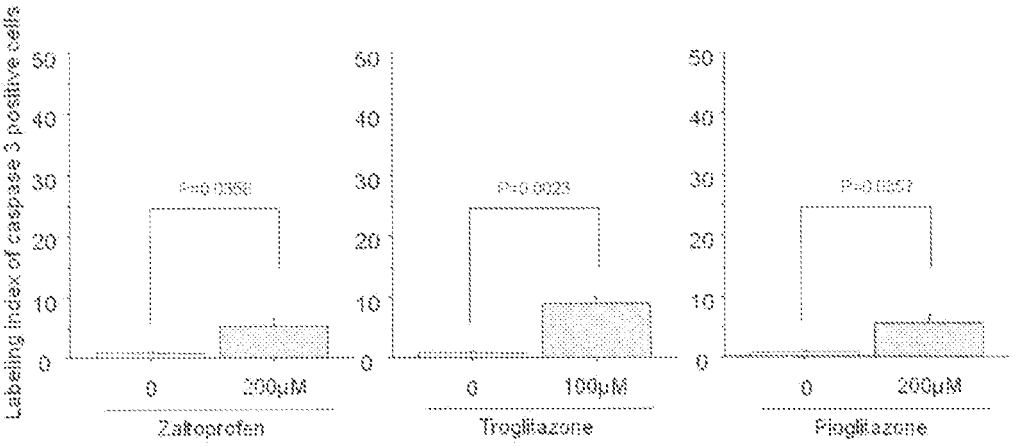
[図45]


Troglitazone
Cell viability
1.2
1
.8
.6
.4
.2
0
Cont 2.5 5 25 50 100μM
Pioglitazone
Cell viability
Cont 5 10 50 100 200μM
Zaltoprofen
Cell viability
Cont 5 10 50 100 200μM

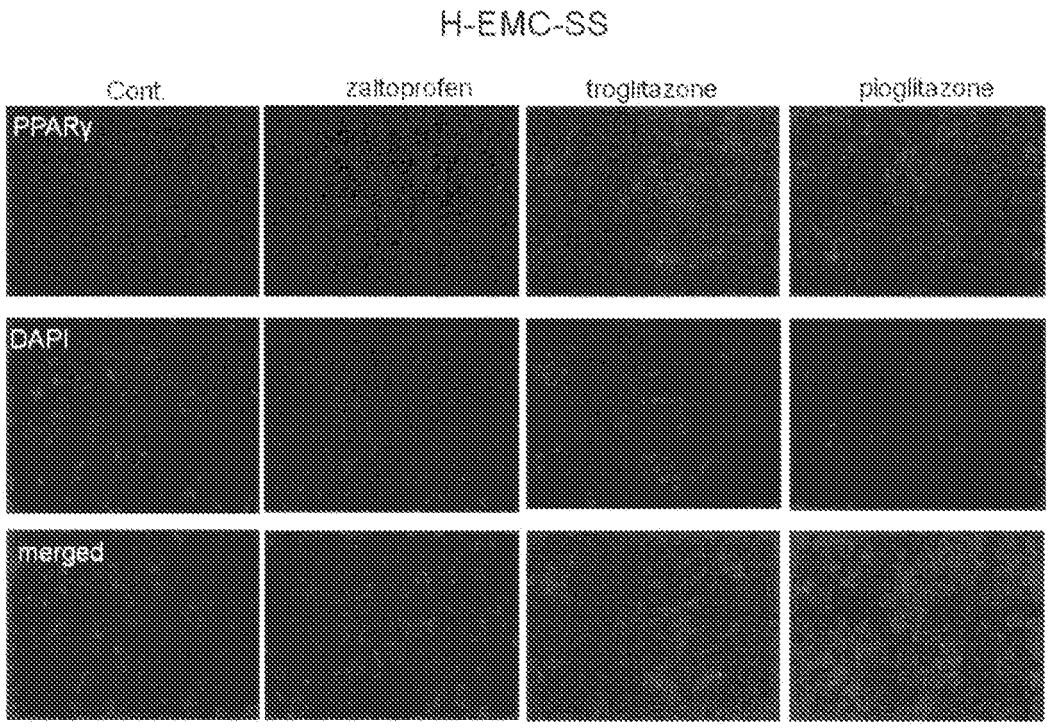
[図46]


H-EMC-SS
Cont
zaltoprofen
troglitazone
pioglitazone
Caspase3
DAPI
merged

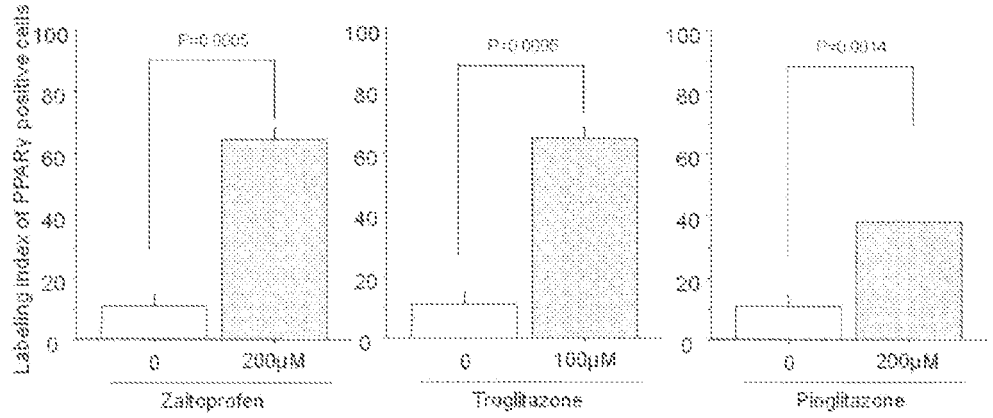
[図47]


Labelling index of caspase 3 positive cells
50
40
30
20
10
0
P=0.0356
P=0.0023
P=0.0357
0
200μM
100μM
Zaltoprofen
Troglitazone
Pioglitazone

[図48]


H-EMC-SS
Cont
zaltoprofen
troglitazone
pioglitazone
PPARγ
DAPI
merged

[図49]


Labeling index of PPARγ positive cells
100
80
60
40
20
0
P<0.0005
0
200μM
Zaltoprofen
P<0.0005
0
100μM
Troglitazone
P<0.0014
0
200μM
Pioglitazone