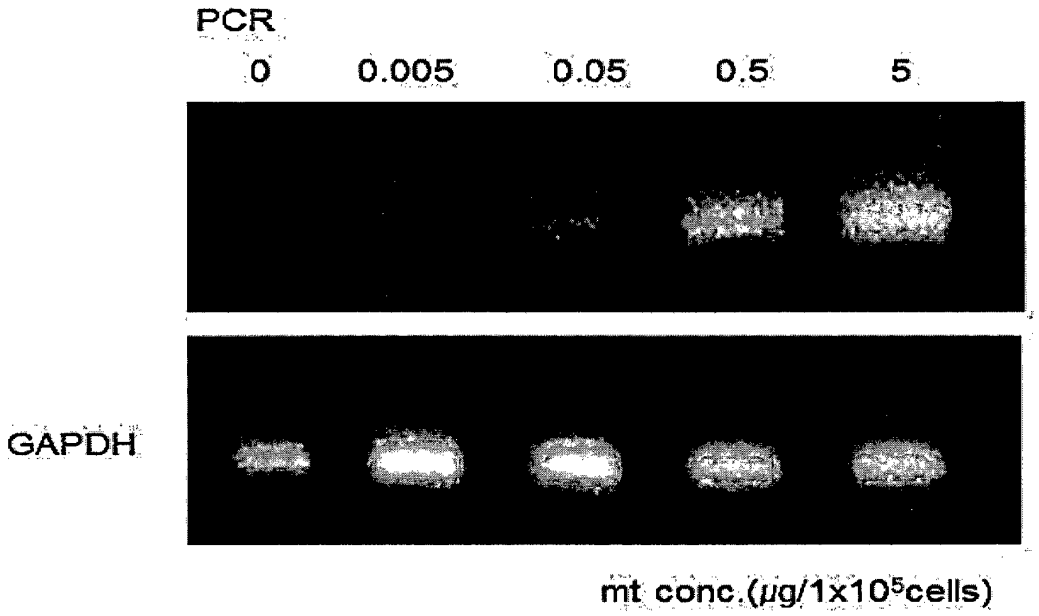
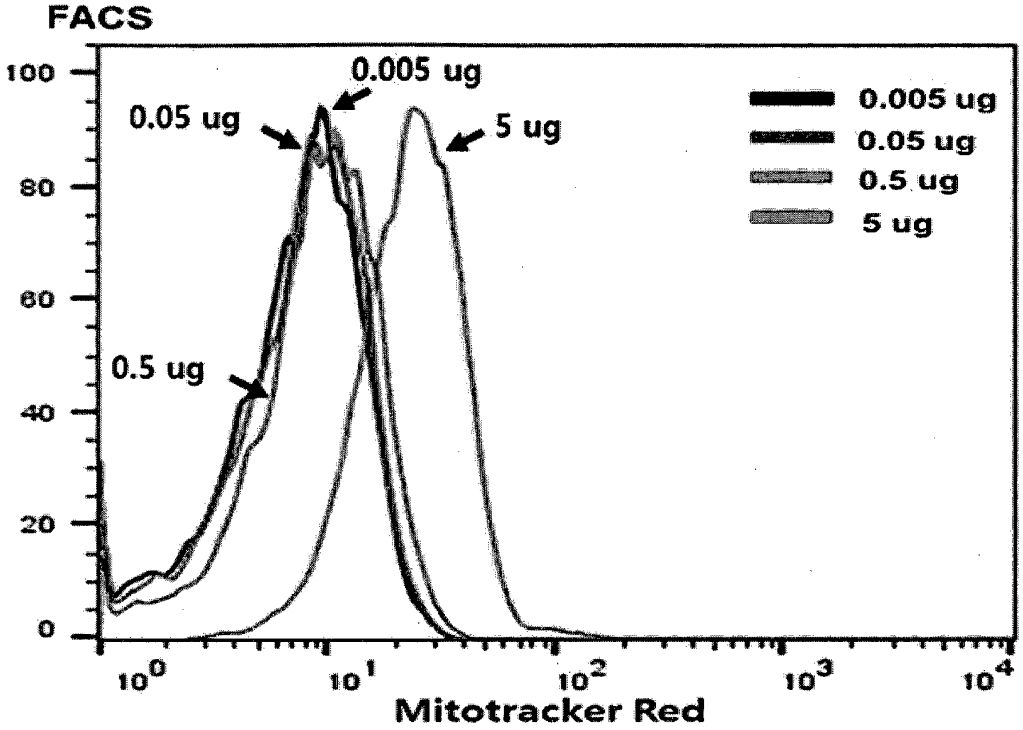
【도면】

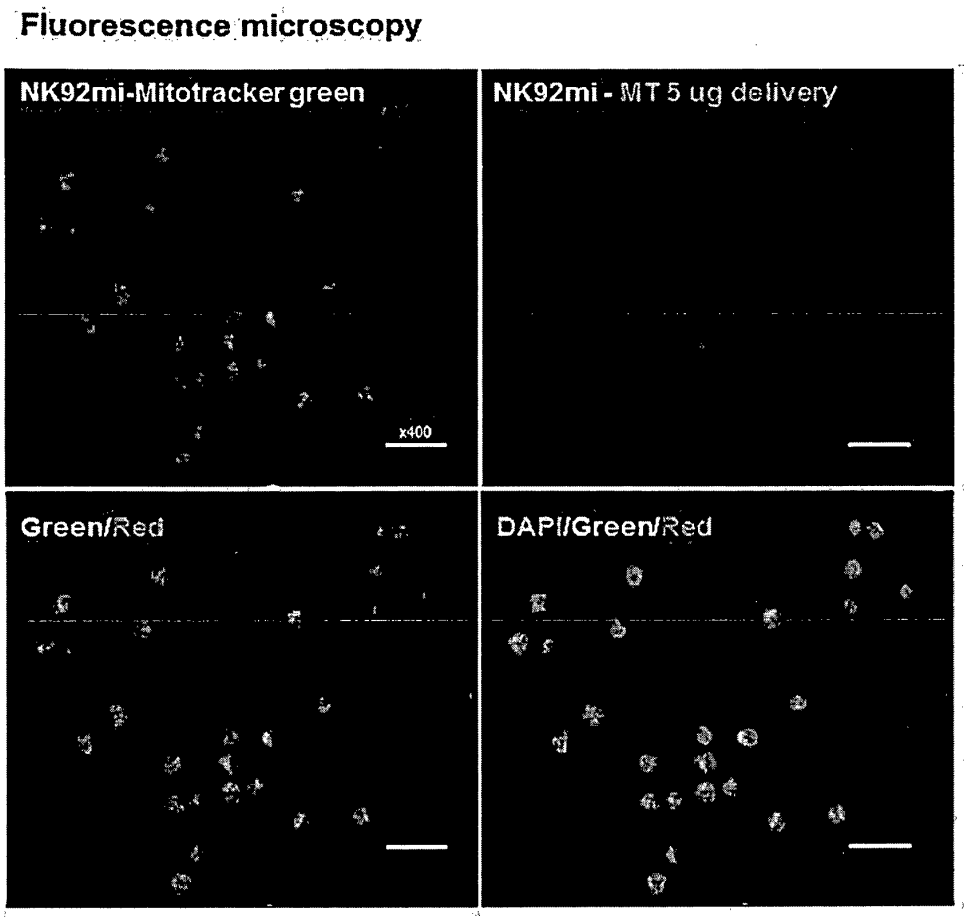
【도 1】



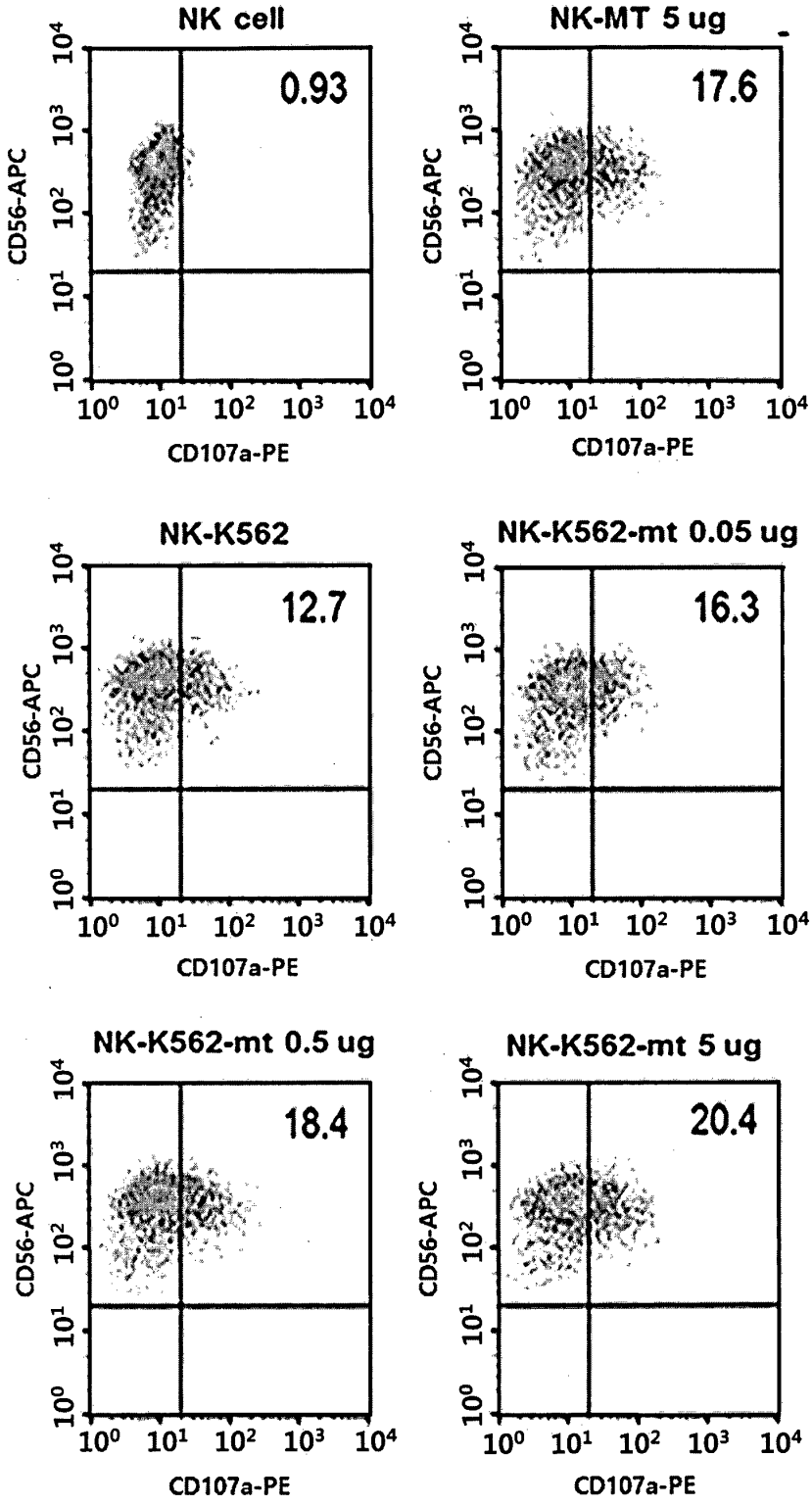
【도 2】


FACS
0.005 ug
0.05 ug
5 ug
0.5 ug
0.005 ug
0.05 ug
0.5 ug
5 ug
100
80
60
40
20
0
10^0
10^1
10^2
10^3
10^4
Mitotracker Red

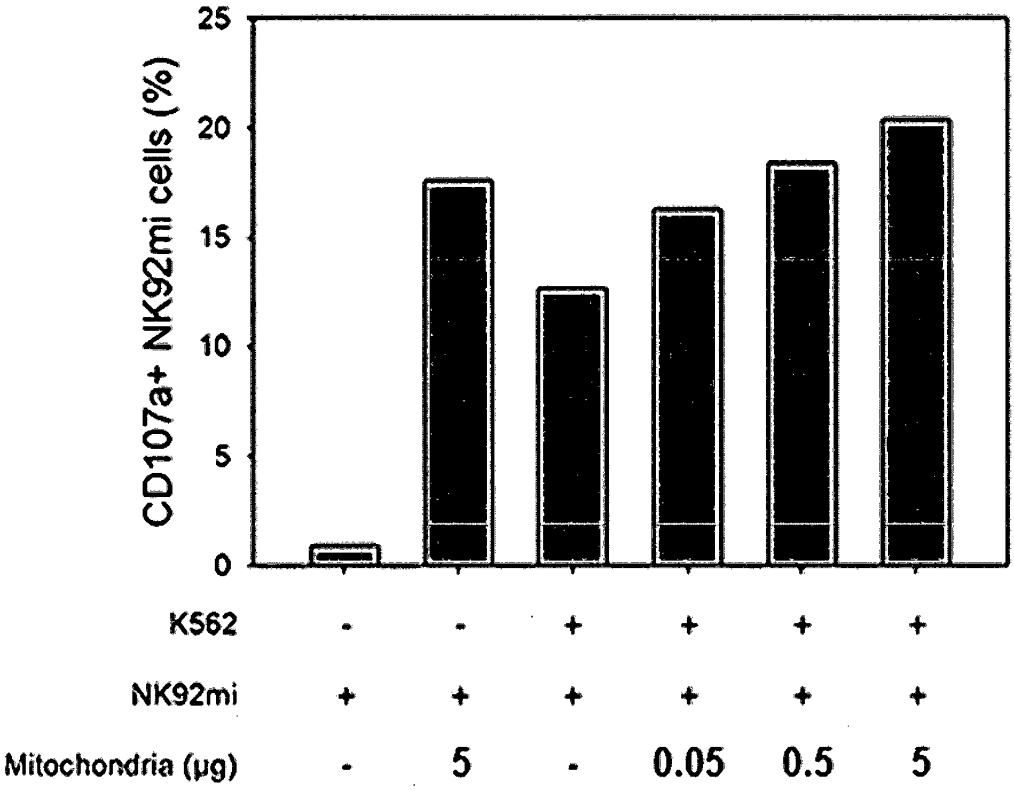
【도 3】


Fluorescence microscopy
NK92mi-Mitotracker green
x400
NK92mi - MT 5 ug delivery
Green/Red
DAPI/Green/Red

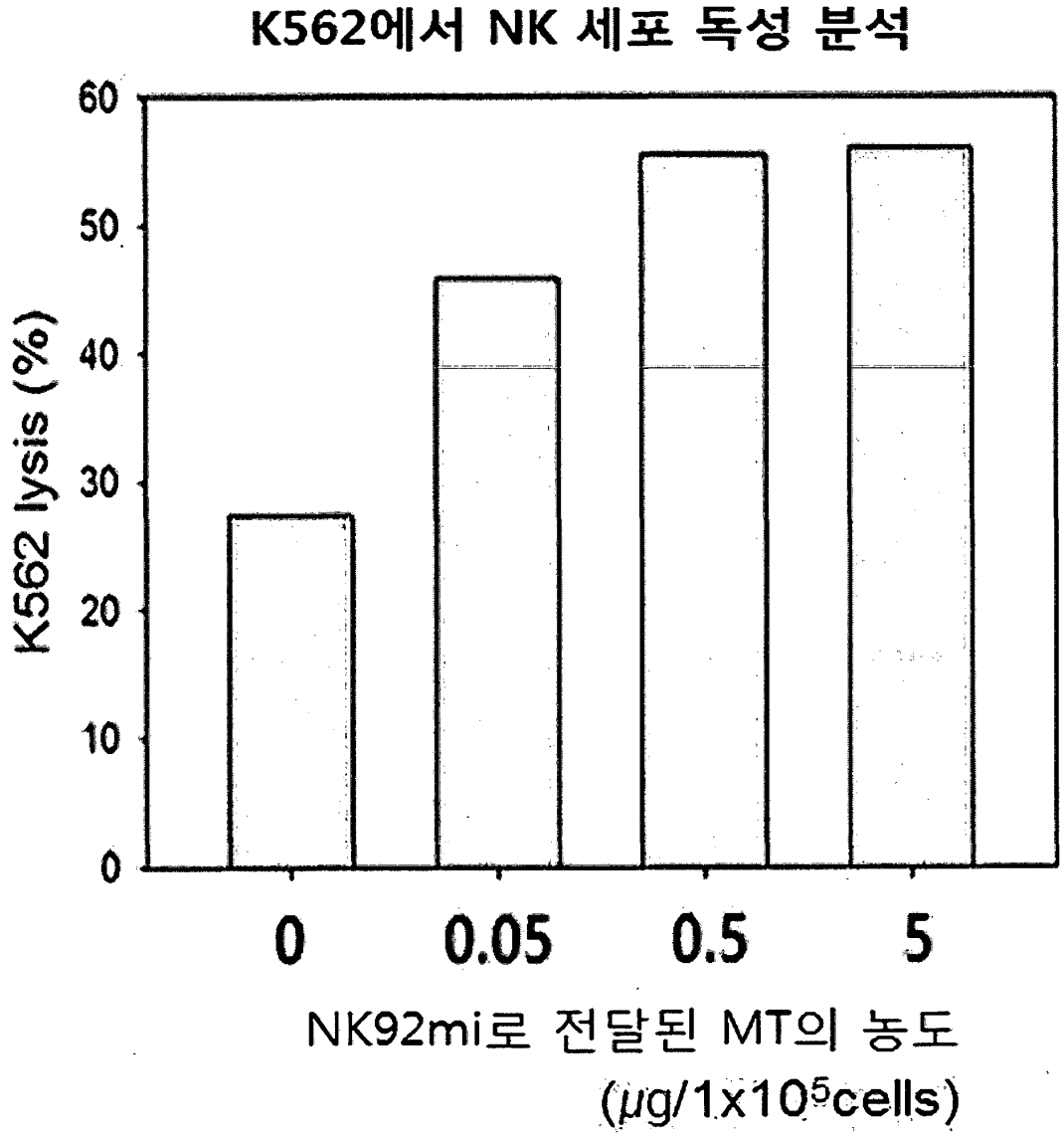
【도 4a】


NK cell
0.93
NK-MT 5 ug
17.6
NK-K562
12.7
NK-K562-mt 0.05 ug
16.3
NK-K562-mt 0.5 ug
18.4
NK-K562-mt 5 ug
20.4
CD56-APC
CD107a-PE
10^0 10^1 10^2 10^3 10^4

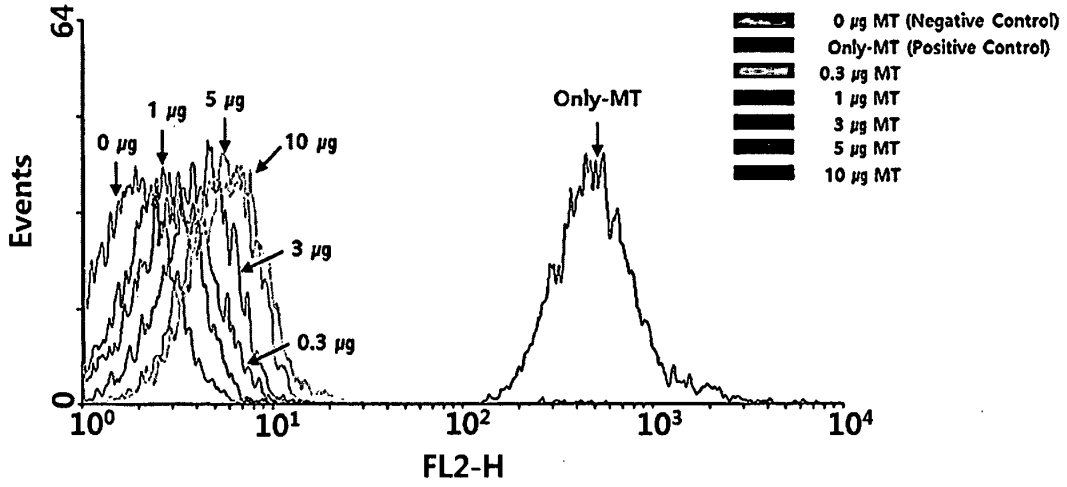
【도 4b】


CD107a+ NK92mi cells (%)
25
20
15
10
5
0
K562 - - + + + +
NK92mi + + + + + +
Mitochondria (μg) - 5 - 0.05 0.5 5

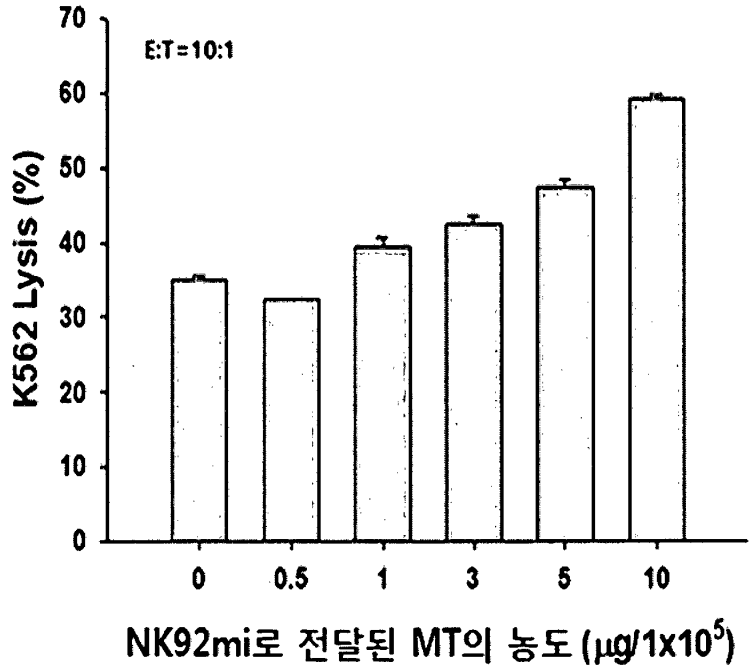
【도 5】


K562에서 NK 세포 독성 분석
K562 lysis (%)
60
50
40
30
20
10
0
0
0.05
0.5
5
NK92mi로 전달된 MT의 농도
(μg/1x10⁵cells)

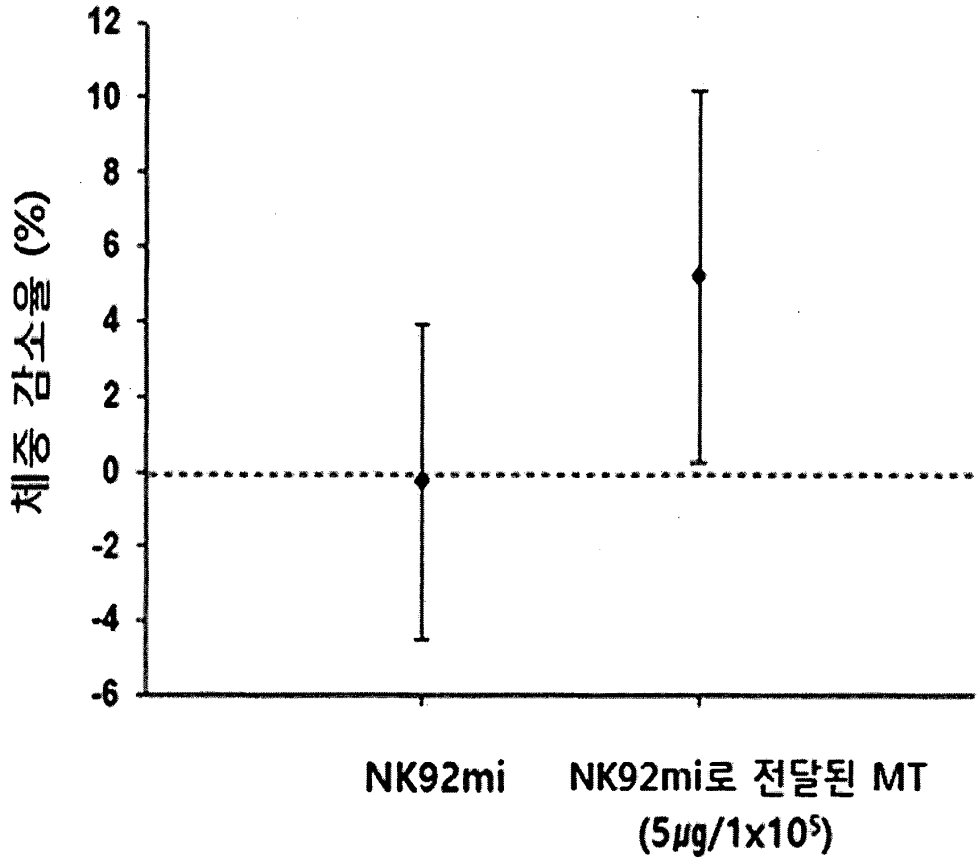
【도 6】


64
0
Events
0 μg
1 μg
5 μg
10 μg
3 μg
0.3 μg
Only-MT
10^0
10^1
10^2
10^3
10^4
FL2-H
0 μg MT (Negative Control)
Only-MT (Positive Control)
0.3 μg MT
1 μg MT
3 μg MT
5 μg MT
10 μg MT

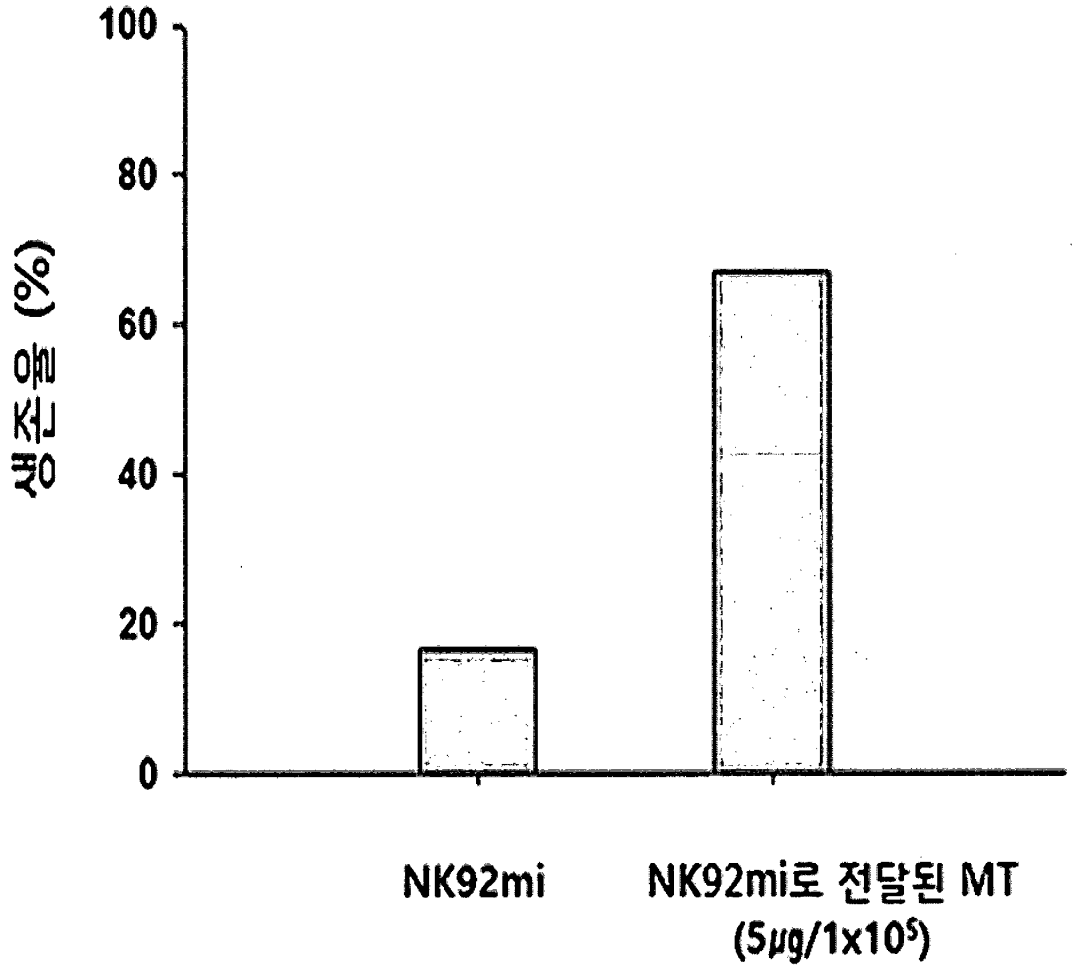
【도 7】


E:T=10:1
K562 Lysis (%)
70
60
50
40
30
20
10
0
0
0.5
1
3
5
10
NK92mi로 전달된 MT의 농도 (μg/1x10^5)

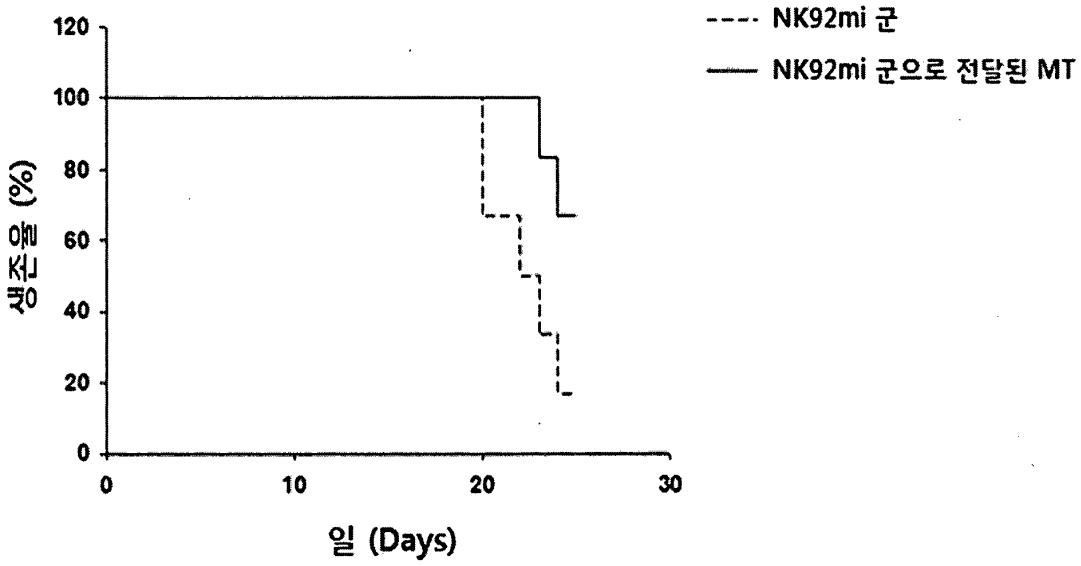
【도 8a】



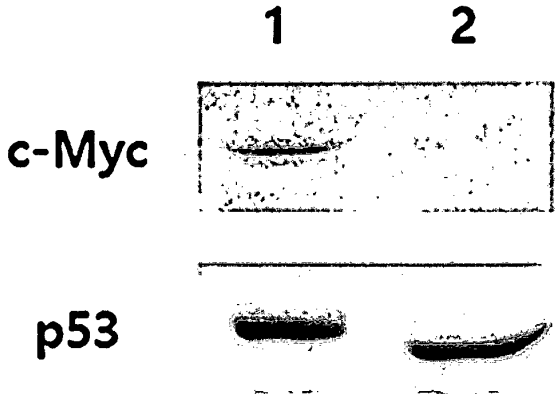
【도 8b】



【도 8c】


NK92mi 군
NK92mi 군으로 전달된 MT
생존율 (%)
120
100
80
60
40
20
0
0
10
20
30
일 (Days)

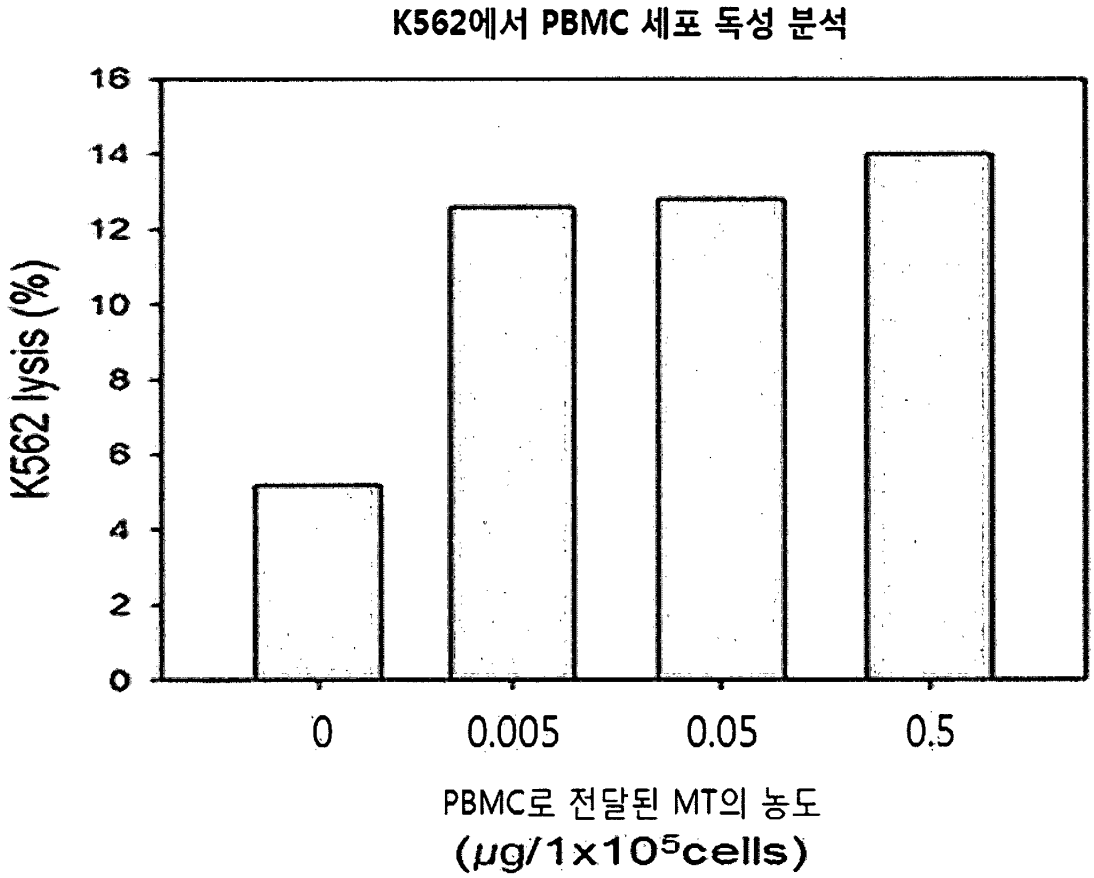
【도 9】



1: NK92mi 군

2: NK92mi(5μg/1x10^5) 군으로 전달된 MT

【도 10】


K562에서 PBMC 세포 독성 분석
K562 lysis (%)
16
14
12
10
8
6
4
2
0
0
0.005
0.05
0.5
PBMC로 전달된 MT의 농도
(μg/1x10⁵cells)