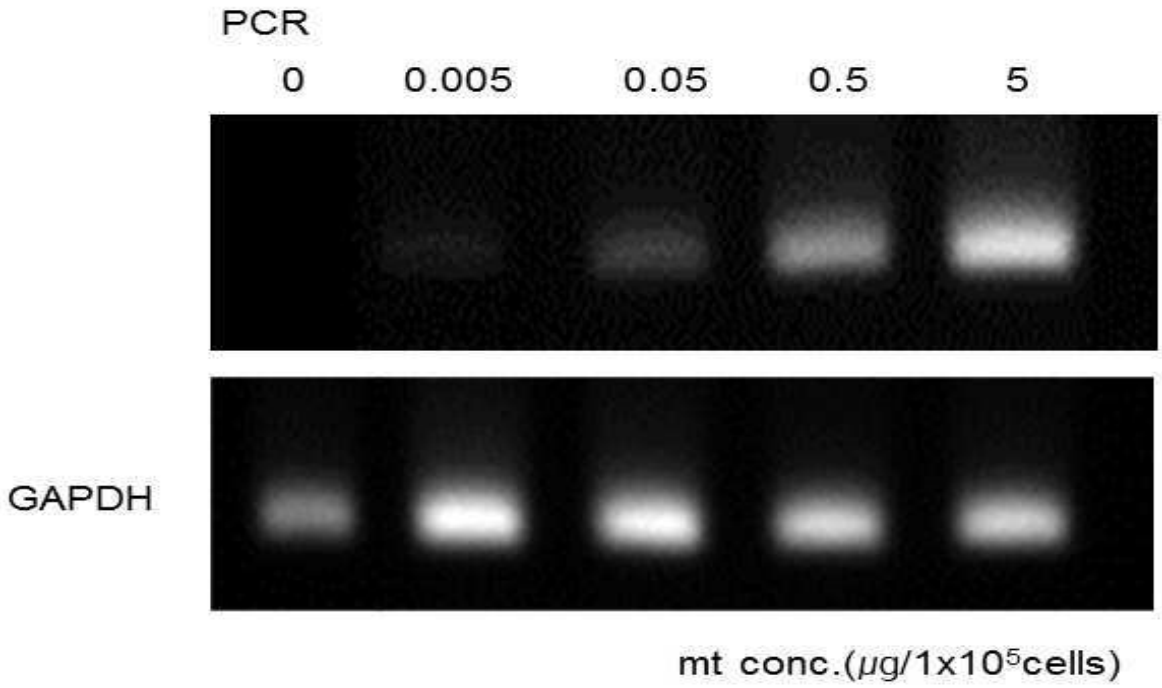
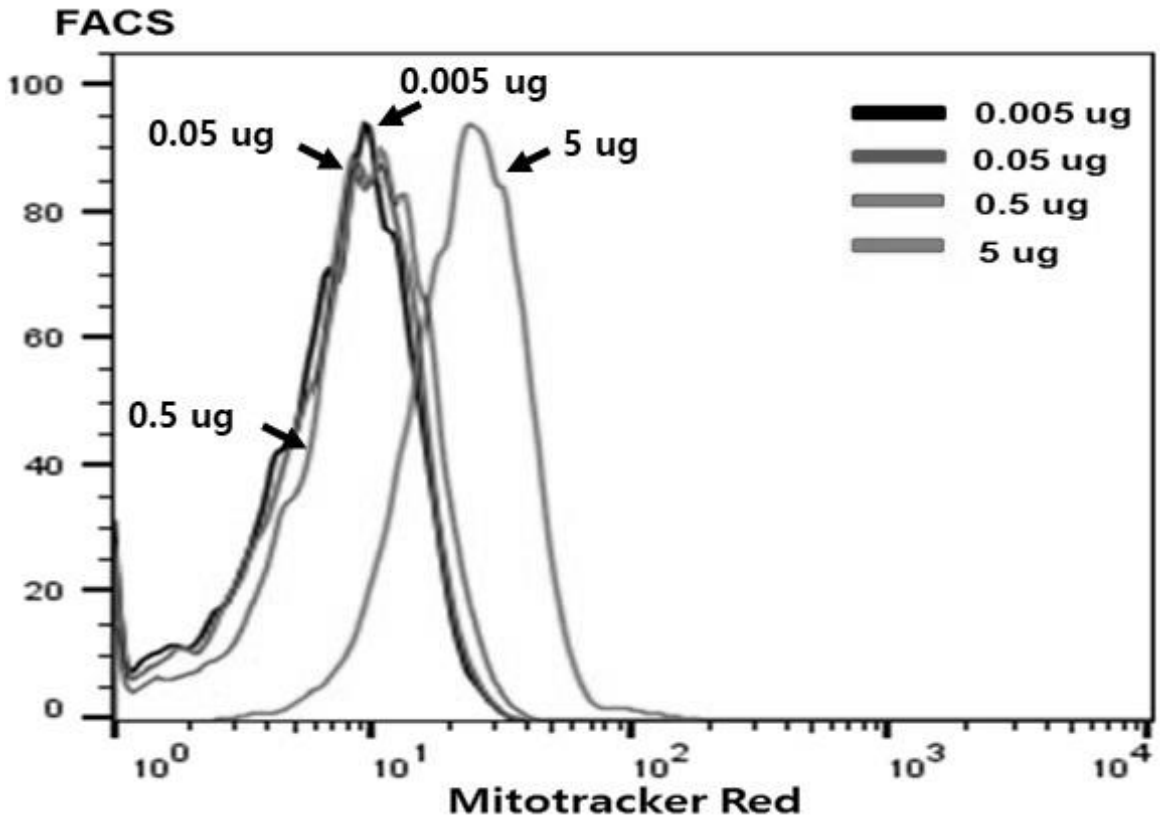
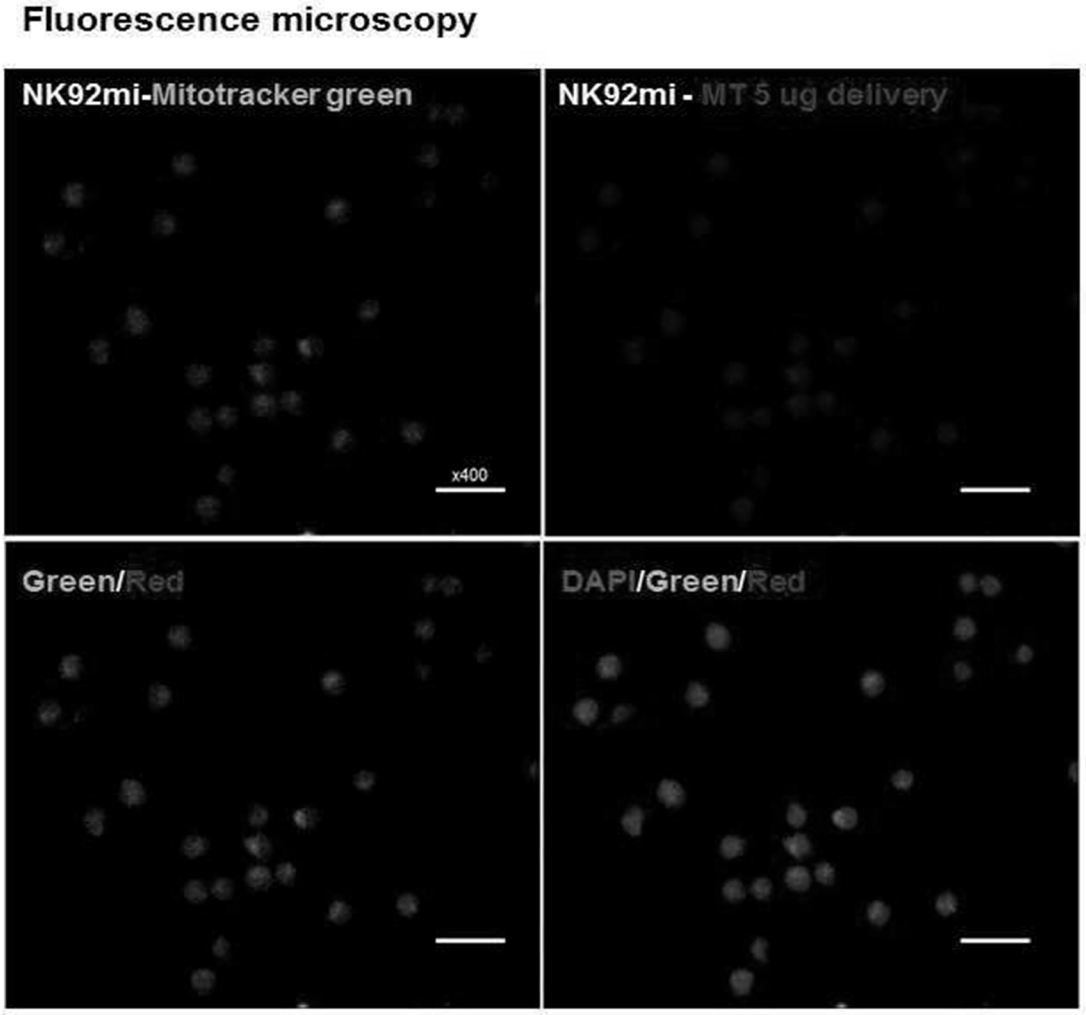
[FIG. 1]



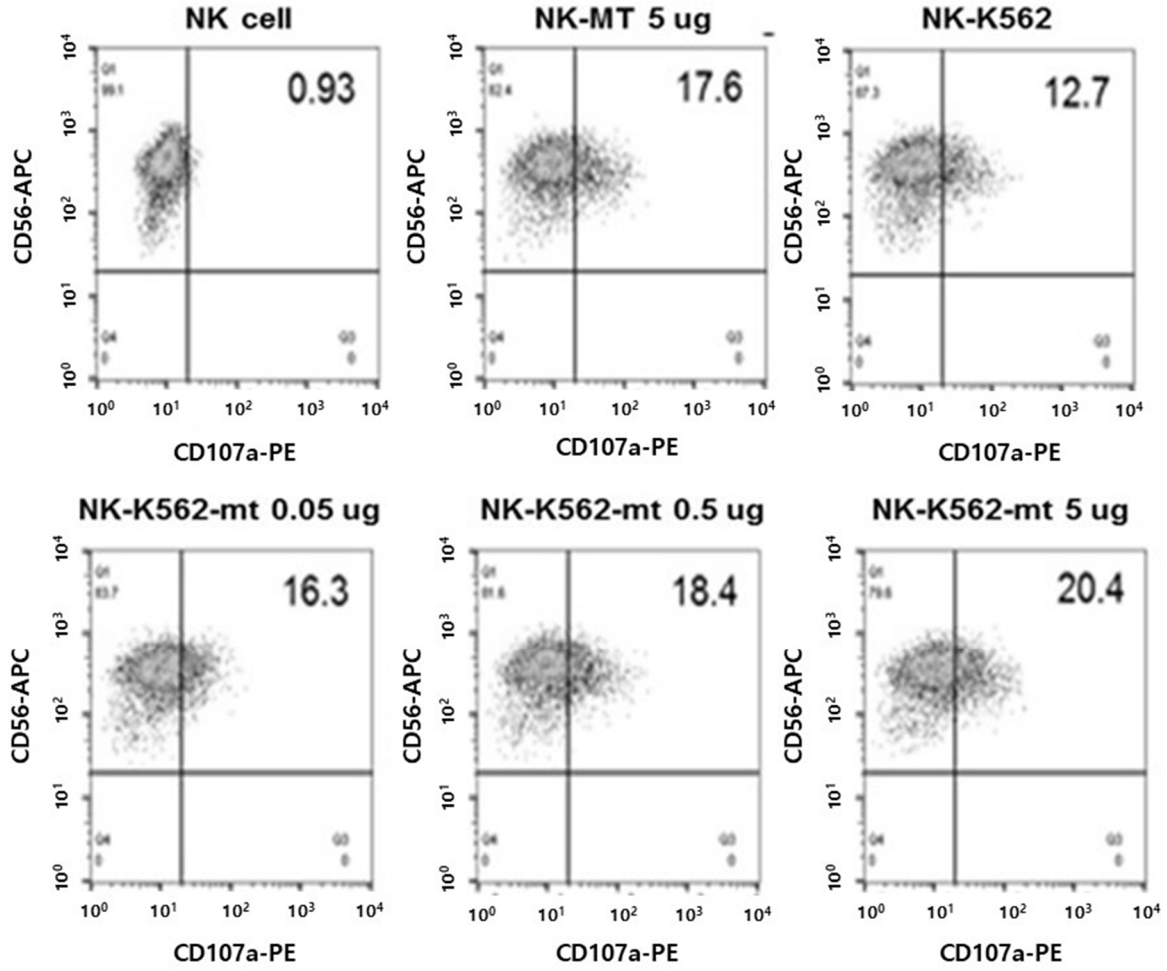
[FIG. 2]


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

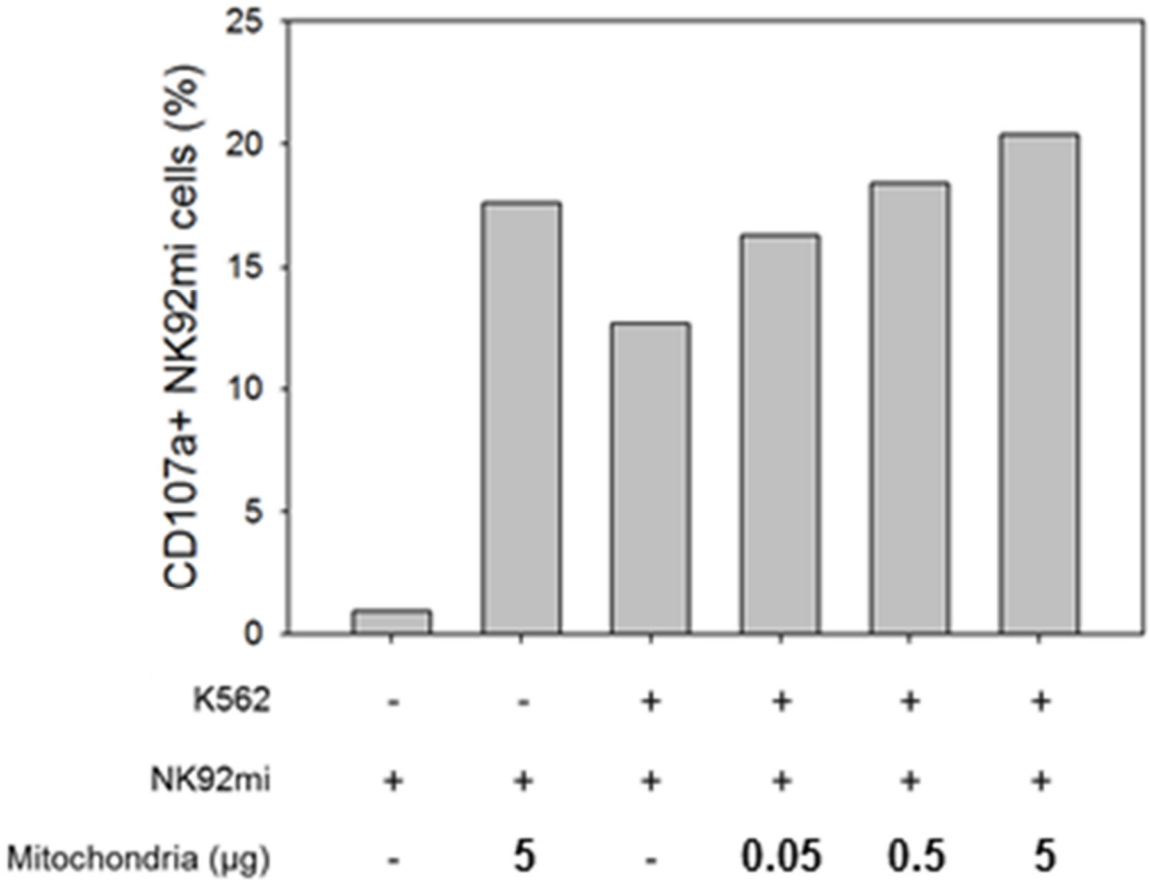
[FIG. 3]


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

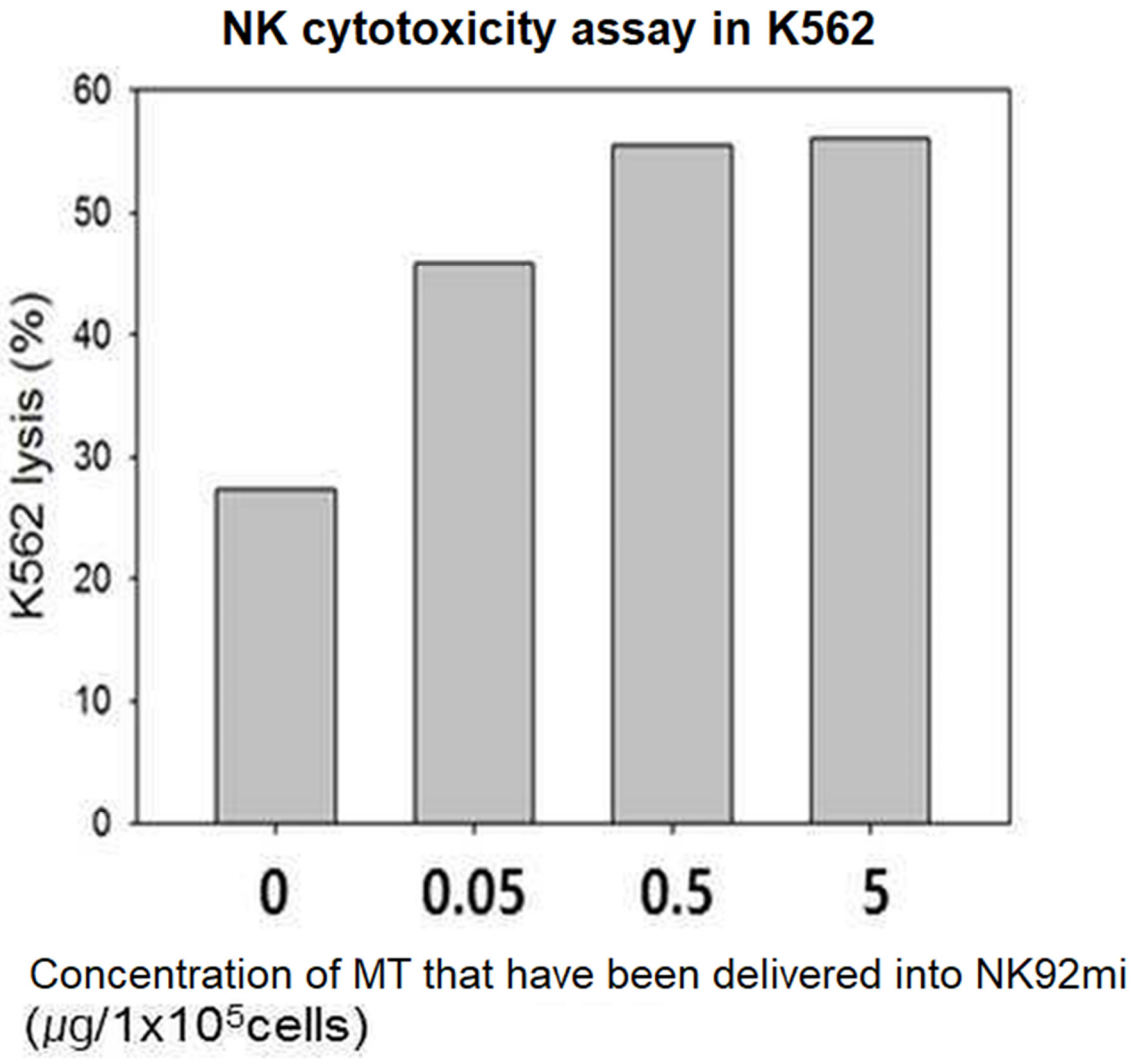
[FIG. 4A]


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

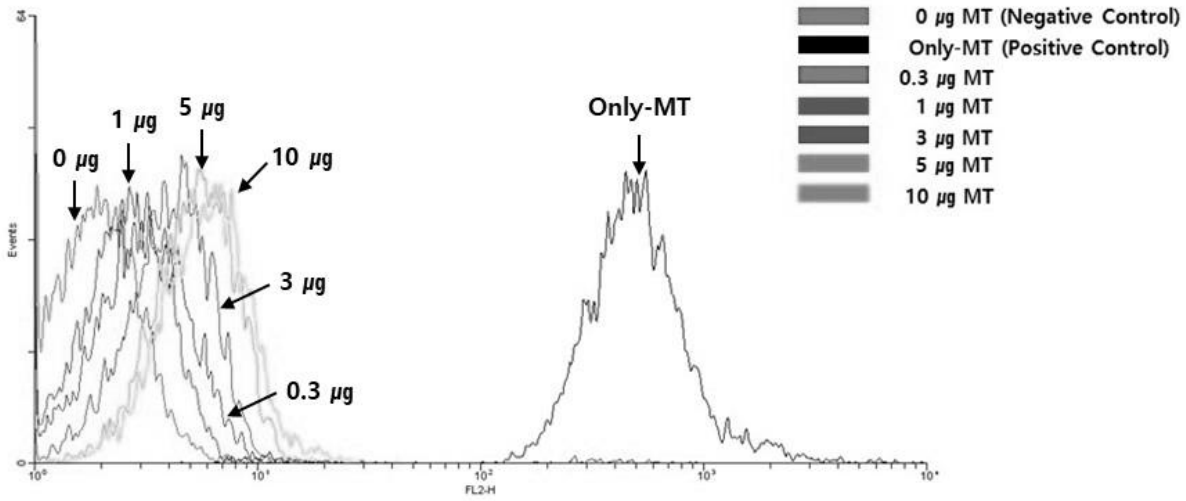
[FIG. 4B]


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

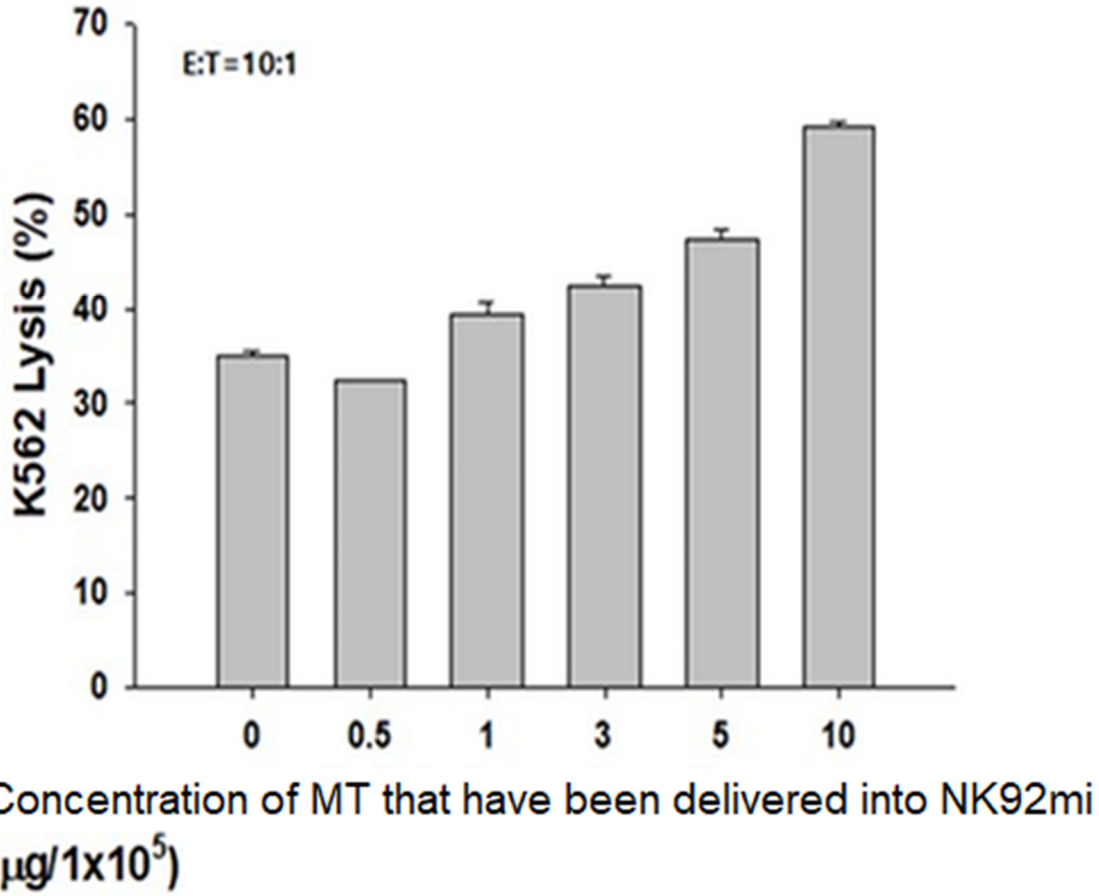
[FIG. 5]


NK cytotoxicity assay in K562
K562 lysis (%)
60
50
40
30
20
10
0
0
0.05
0.5
5
Concentration of MT that have been delivered into NK92mi
(μg/1x10^5cells)

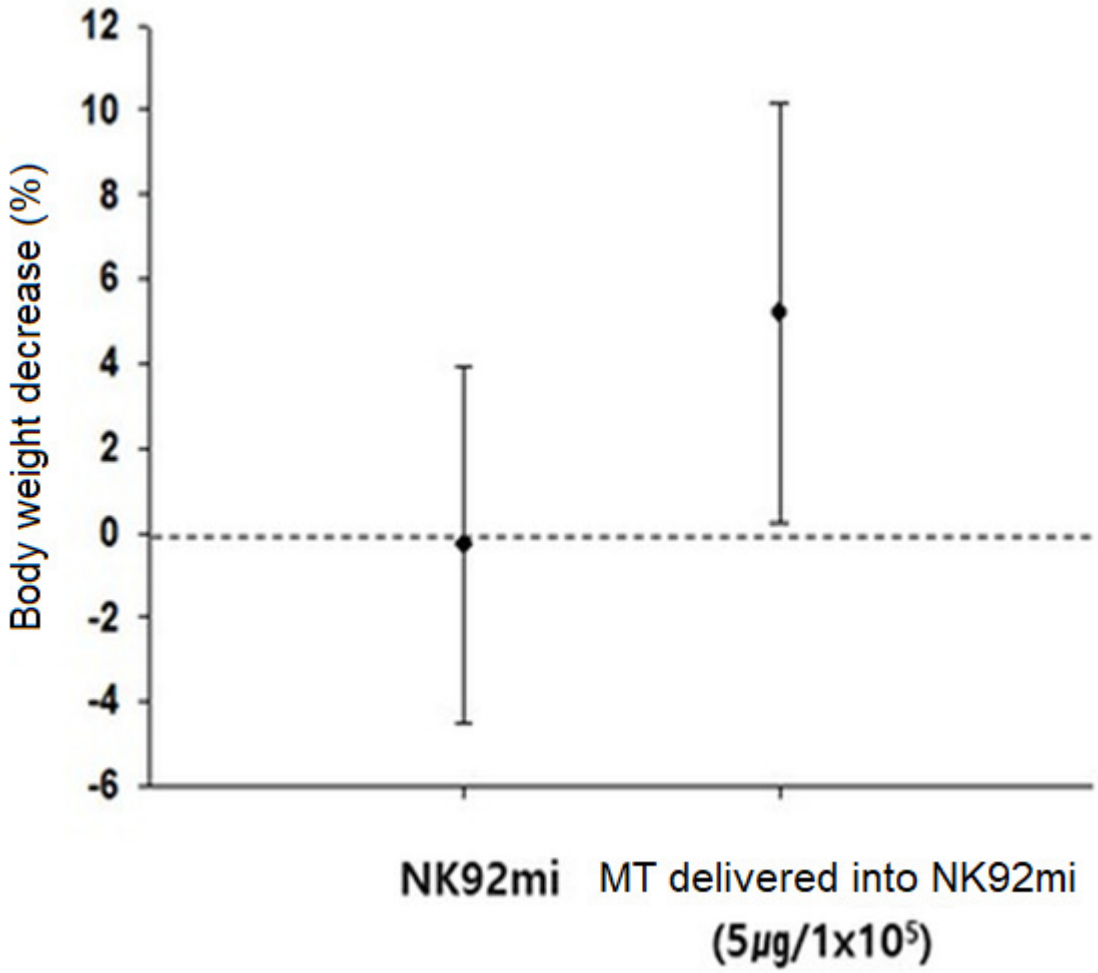
[FIG. 6]


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
0 μg
1 μg
5 μg
10 μg
3 μg
0.3 μg
Only-MT
Events
FL2-H

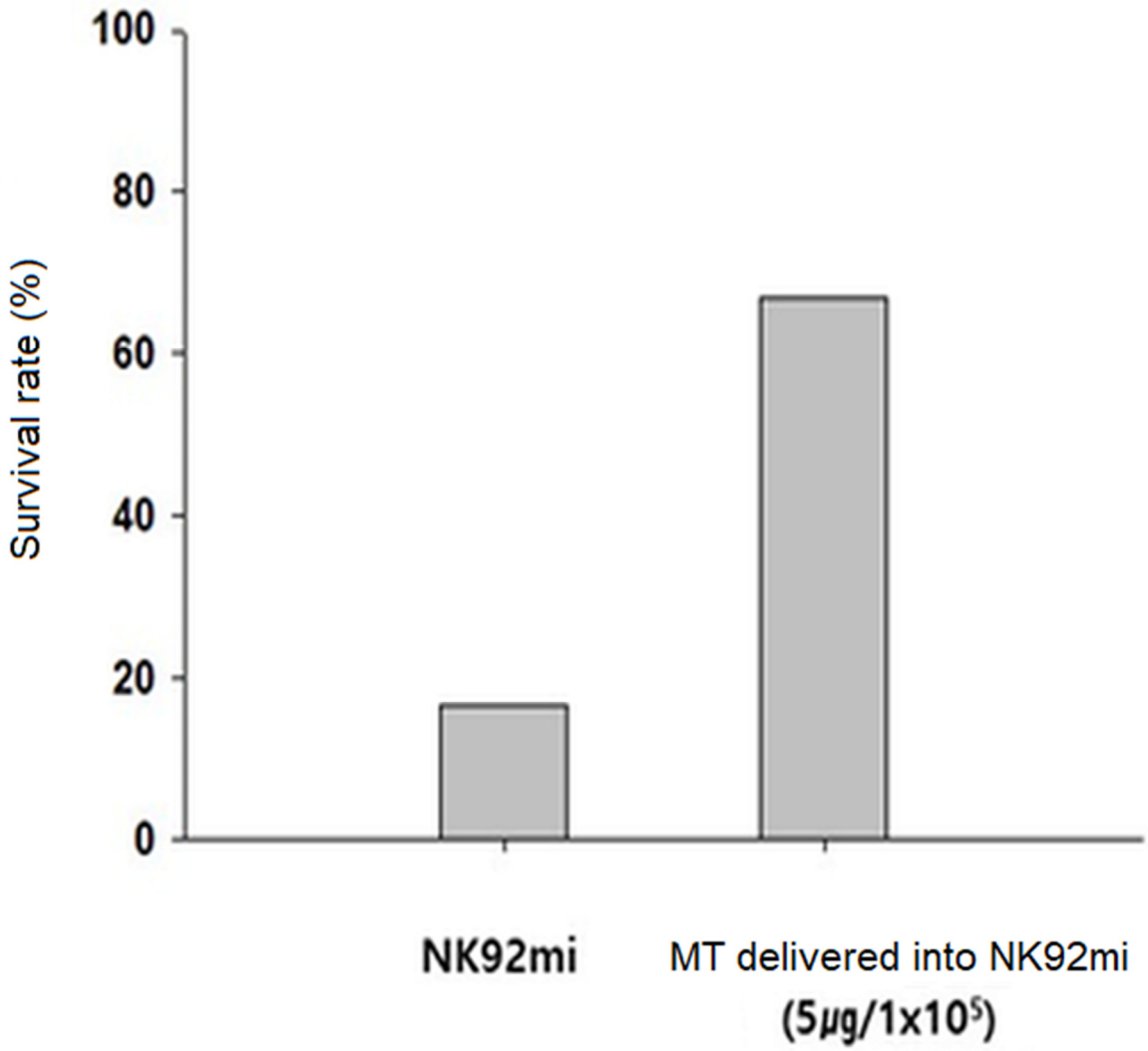
[FIG. 7]


E:T=10:1
K562 Lysis (%)
70
60
50
40
30
20
10
0
0
0.5
1
3
5
10
Concentration of MT that have been delivered into NK92mi
(μg/1x10^5)

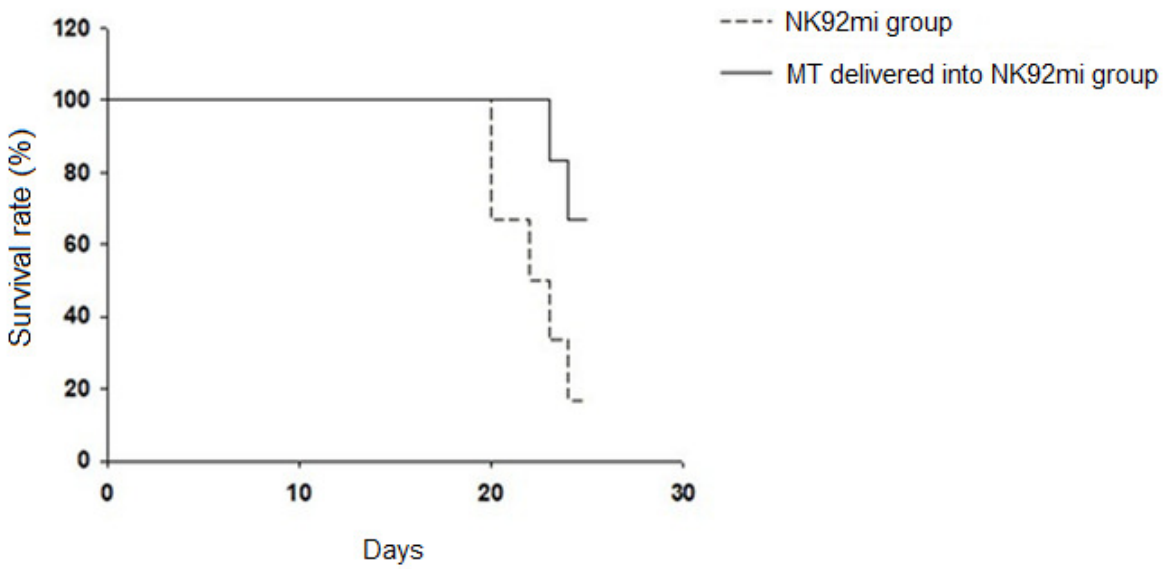
[FIG. 8A]


12
10
8
6
4
2
0
-2
-4
-6
Body weight decrease (%)
NK92mi
MT delivered into NK92mi
(5μg/1x10⁵)

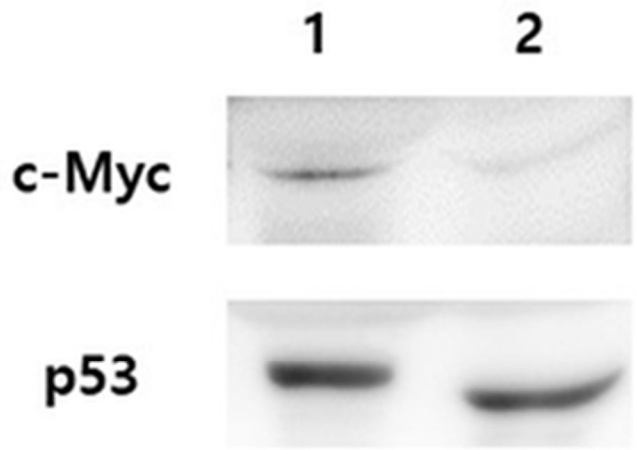
[FIG. 8B]


100
80
60
40
20
0
Survival rate (%)
NK92mi
MT delivered into NK92mi
(5μg/1x10^5)

[FIG. 8C]


NK92mi group
MT delivered into NK92mi group
Survival rate (%)
120
100
80
60
40
20
0
0
10
20
30
Days

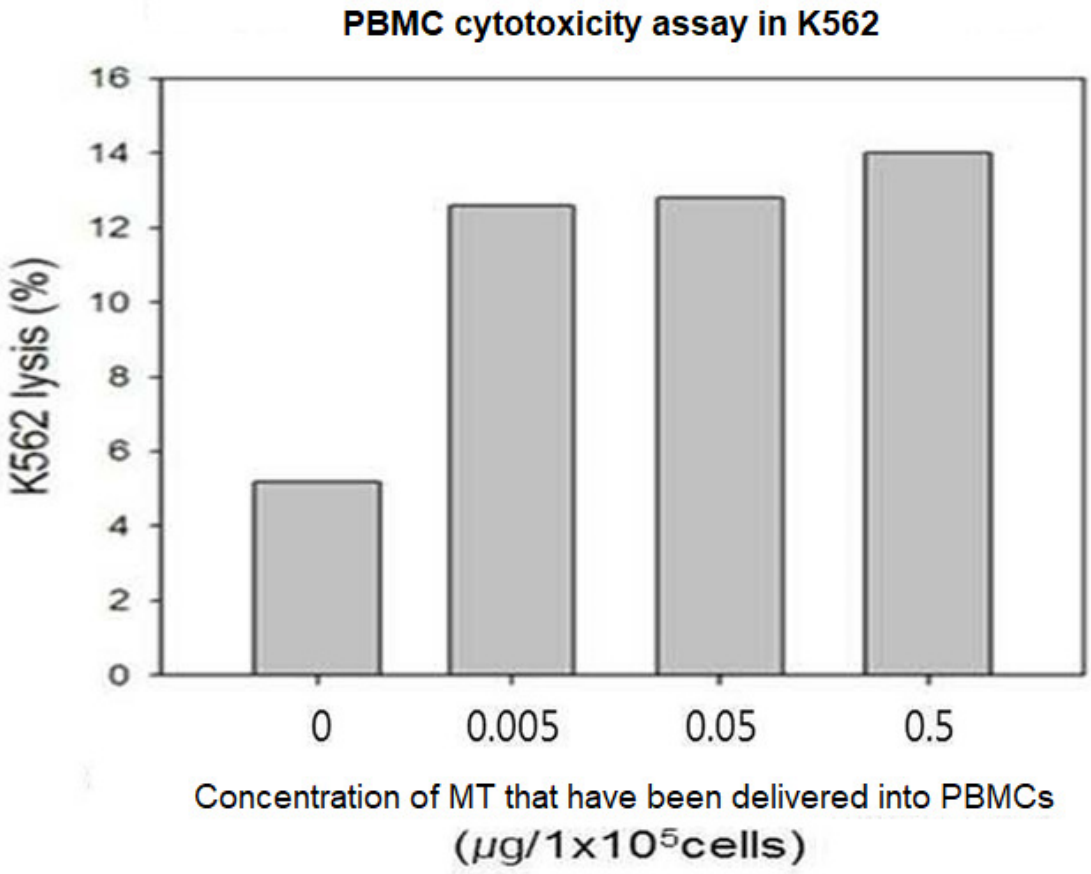
[FIG. 9]



1: NK92mi group

2: MT delivered into NK92mi group (5 μg/1 × 10^5)

[FIG. 10]


PBMC cytotoxicity assay in K562
K562 lysis (%)
16
14
12
10
8
6
4
2
0
0
0.005
0.05
0.5
Concentration of MT that have been delivered into PBMCs
(μg/1x10⁵cells)