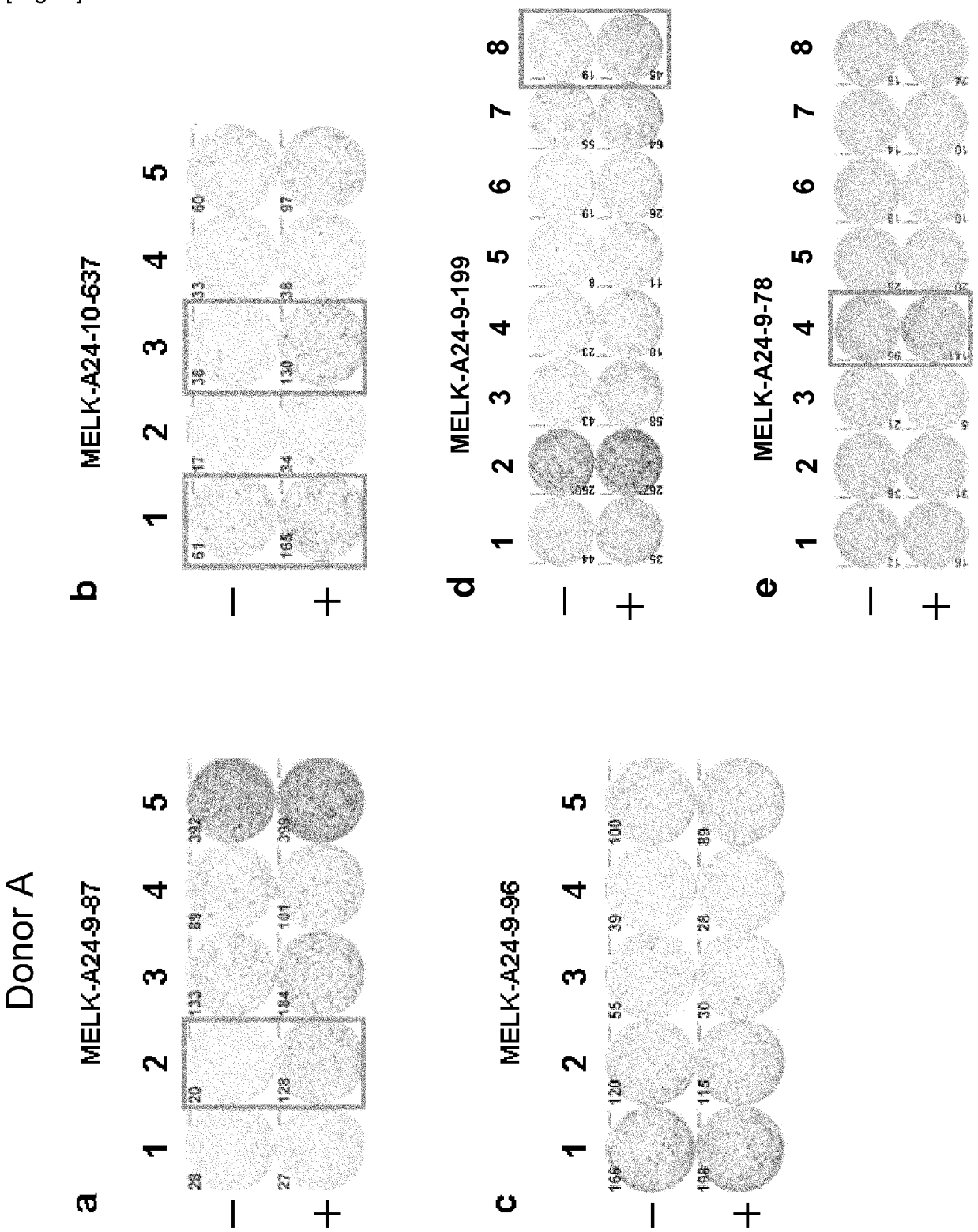
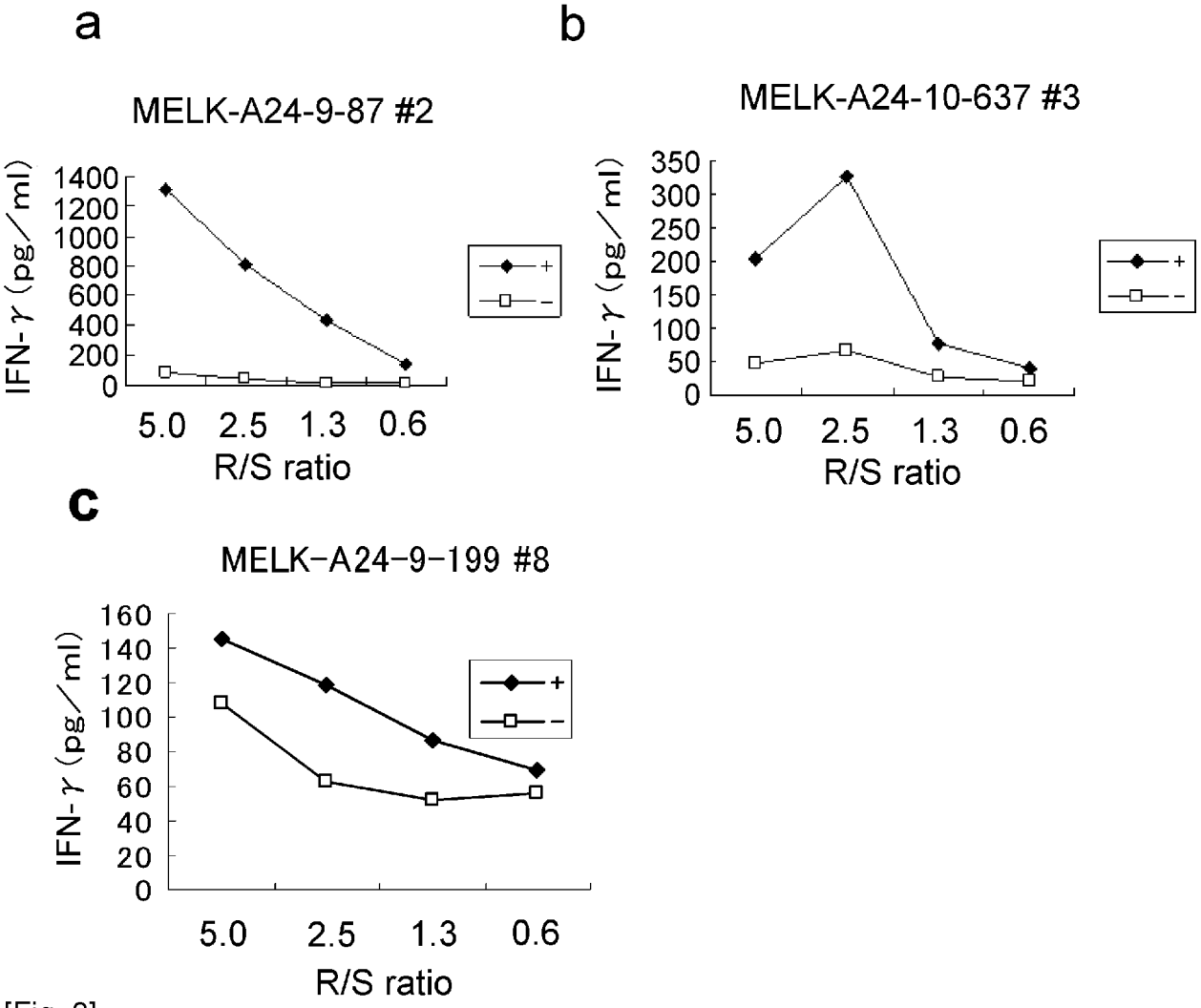
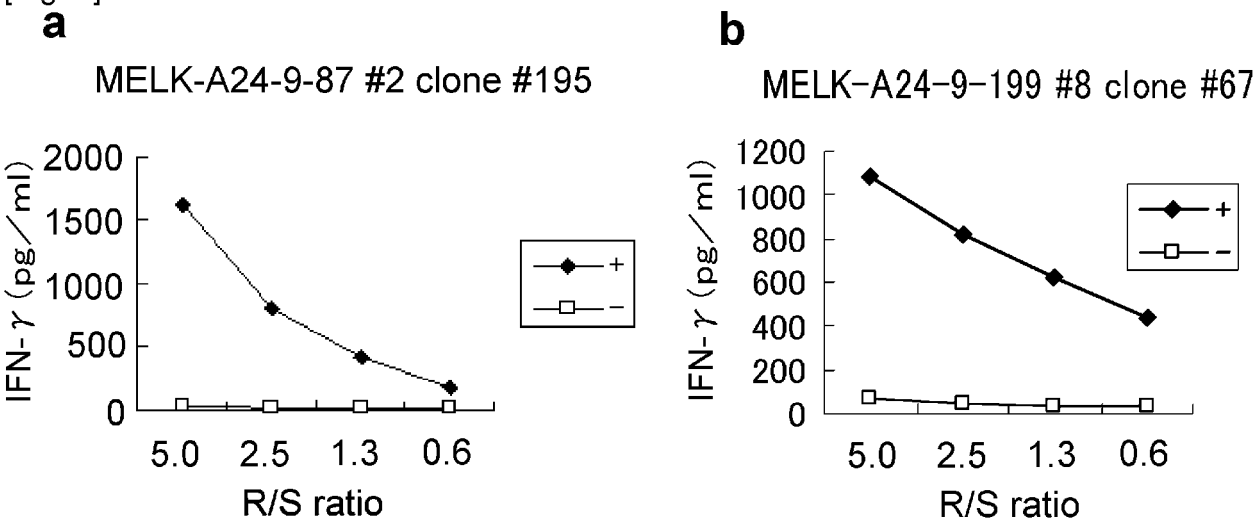
[Fig. 1]


Donor A
a
MELK-A24-9-87
b
MELK-A24-10-637
c
MELK-A24-9-96
d
MELK-A24-9-199
e
MELK-A24-9-78
1 2 3 4 5
1 2 3 4 5 6 7 8
− +

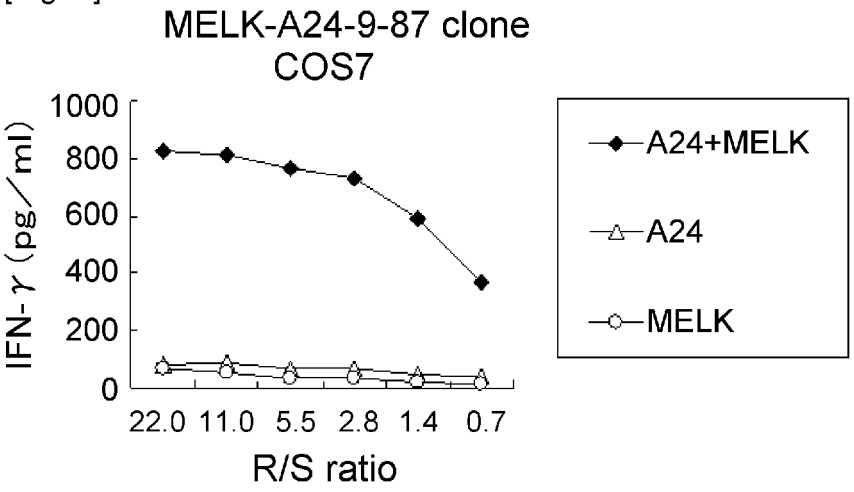
[Fig. 2]


a
MELK-A24-9-87 #2
IFN-γ (pg/ml)
1400
1200
1000
800
600
400
200
0
5.0 2.5 1.3 0.6
R/S ratio
+
−
b
MELK-A24-10-637 #3
IFN-γ (pg/ml)
350
300
250
200
150
100
50
0
5.0 2.5 1.3 0.6
R/S ratio
+
−
c
MELK-A24-9-199 #8
IFN-γ (pg/ml)
160
140
120
100
80
60
40
20
0
5.0 2.5 1.3 0.6
R/S ratio
+
−

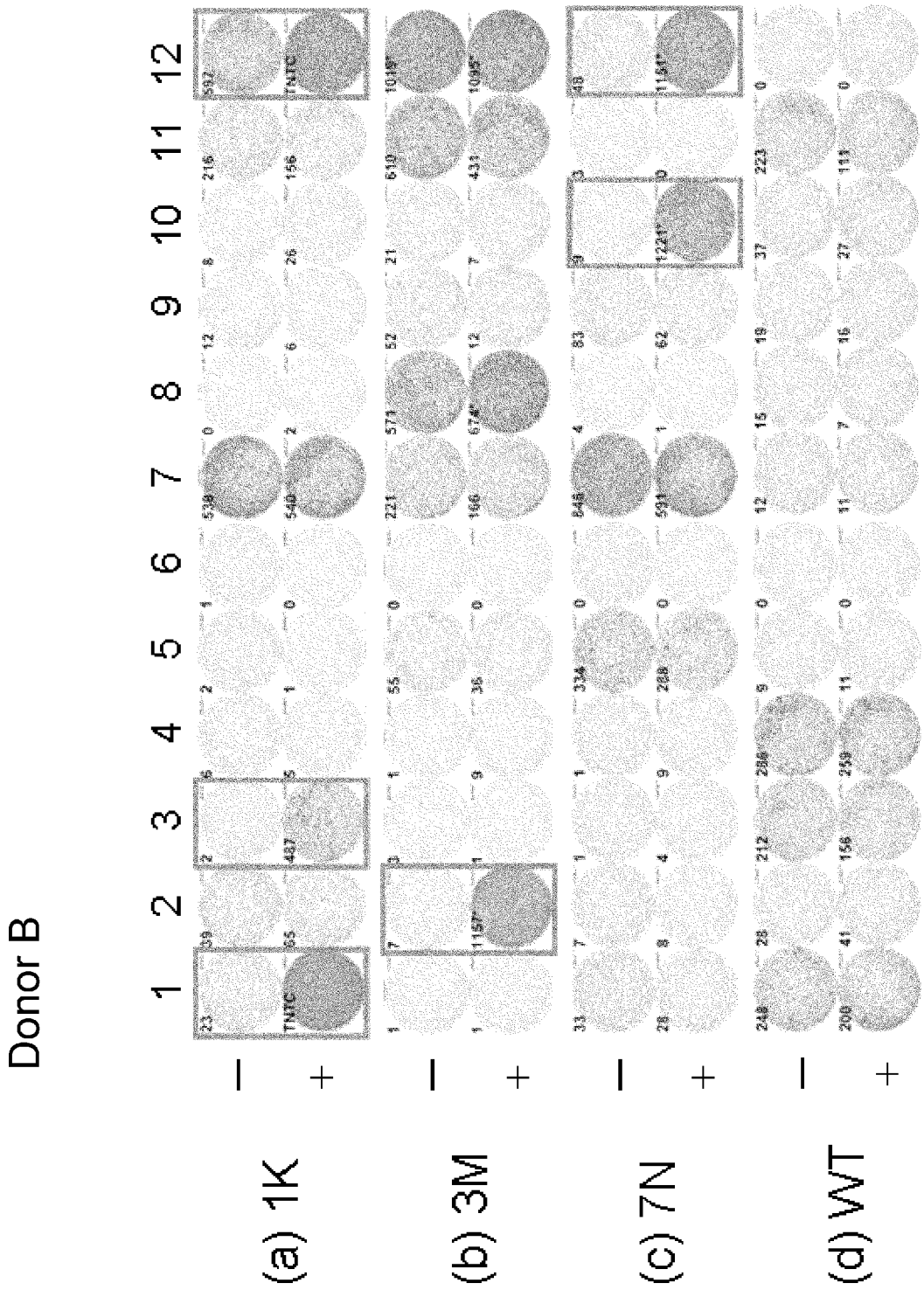
[Fig. 3]


a
MELK-A24-9-87 #2 clone #195
IFN-γ (pg/ml)
2000
1500
1000
500
0
5.0 2.5 1.3 0.6
R/S ratio
+
−
b
MELK-A24-9-199 #8 clone #67
IFN-γ (pg/ml)
1200
1000
800
600
400
200
0
5.0 2.5 1.3 0.6
R/S ratio
+
−

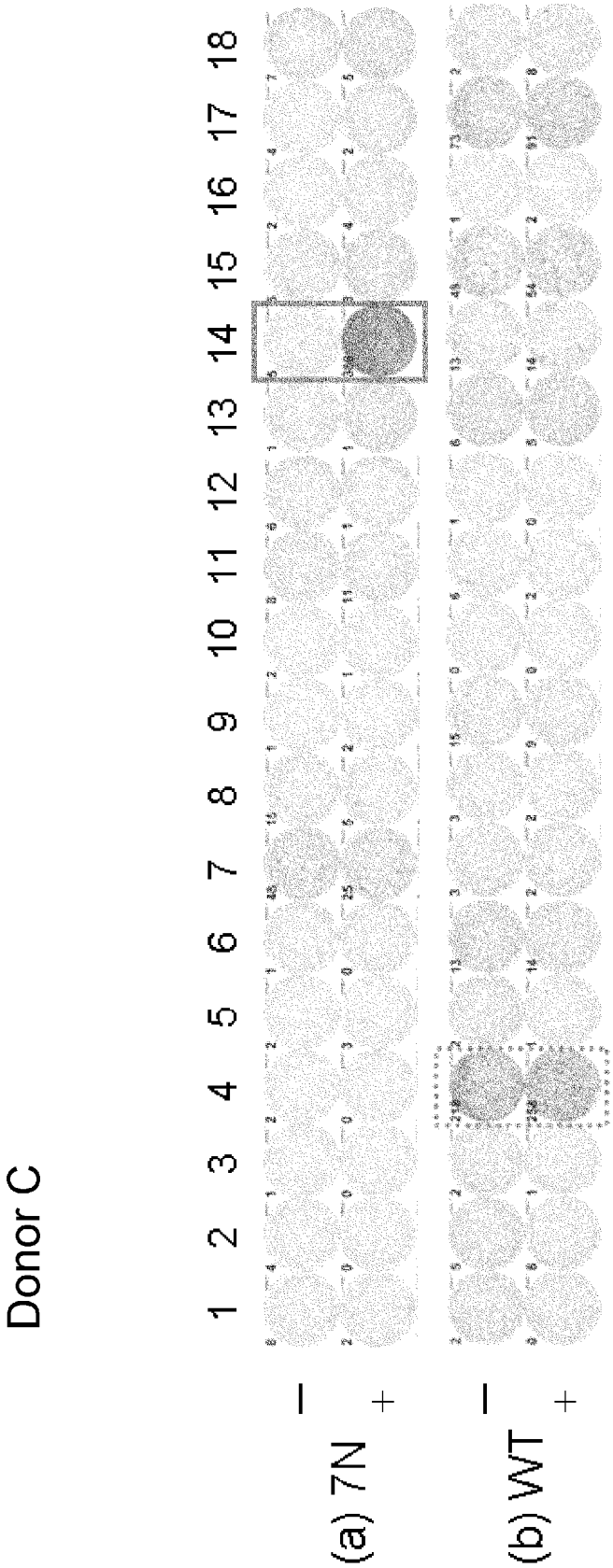
[Fig. 4]


MELK-A24-9-87 clone
COS7
IFN-γ (pg/ml)
1000
800
600
400
200
0
22.0 11.0 5.5 2.8 1.4 0.7
R/S ratio
A24+MELK
A24
MELK

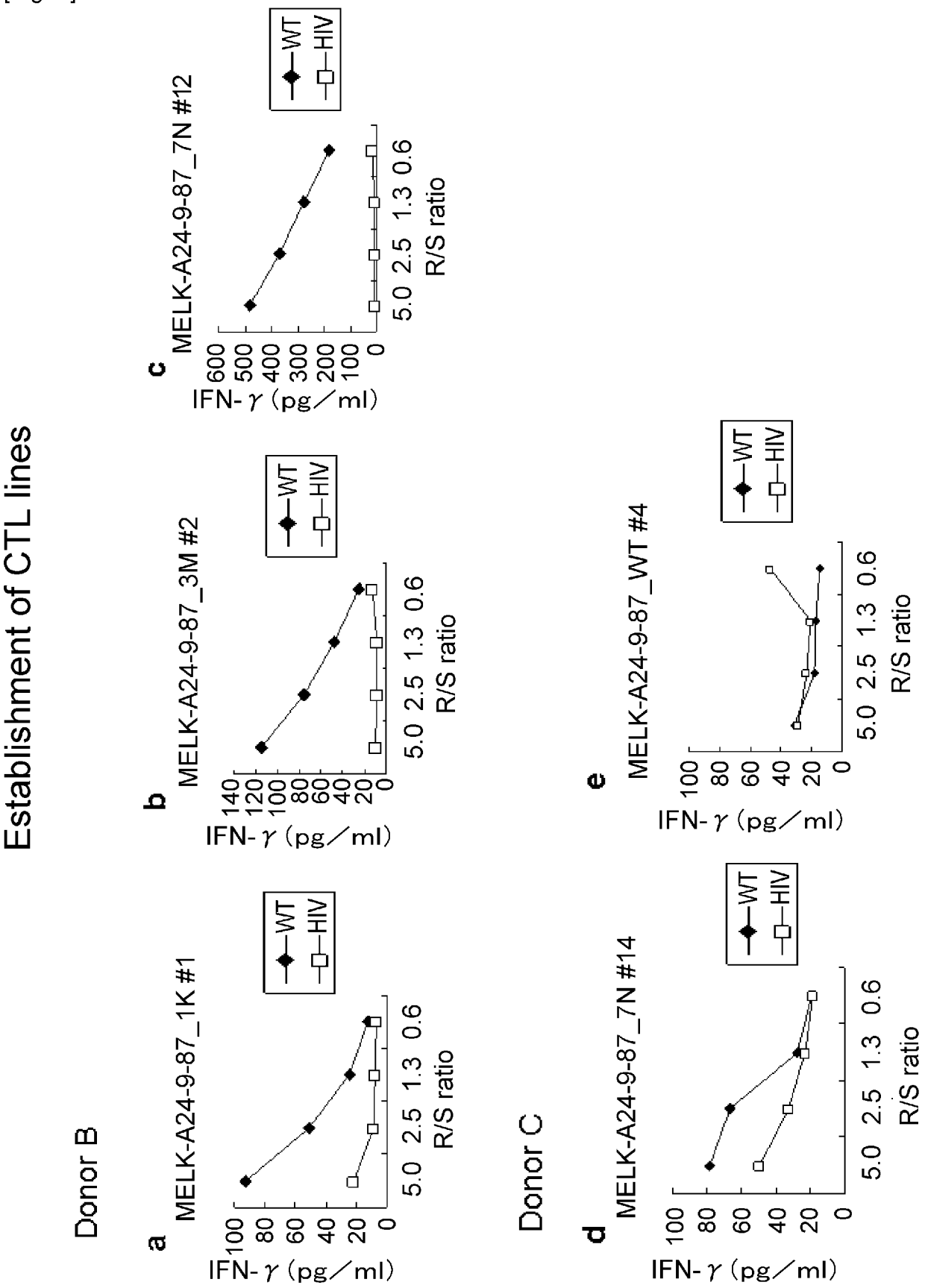
[Fig. 5A]


Donor B
1 2 3 4 5 6 7 8 9 10 11 12
(a) 1K
(b) 3M
(c) 7N
(d) WT
TNTC
1157*
1045*
1095*
1141*
1224*

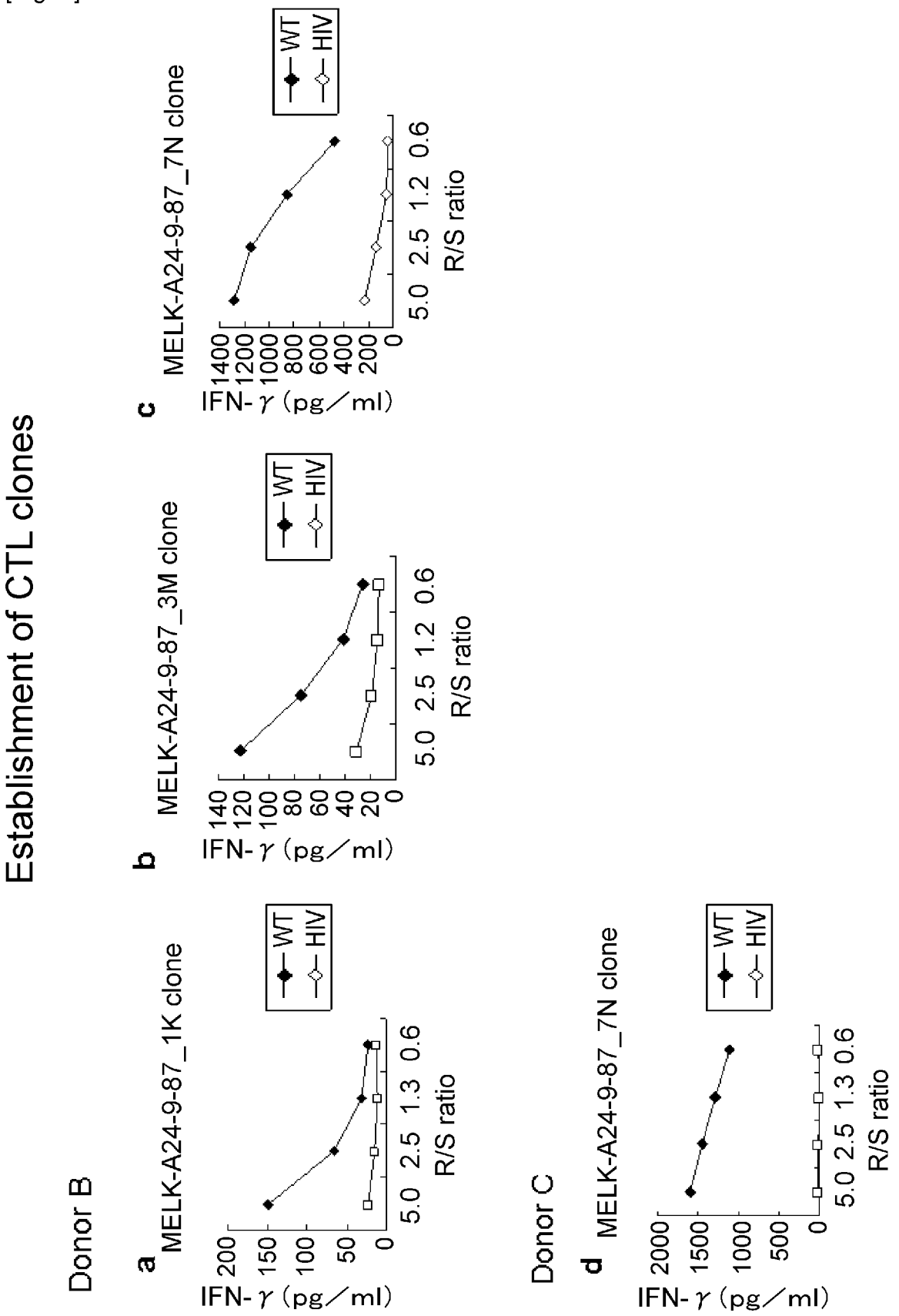
[Fig. 5B]



[Fig. 6]

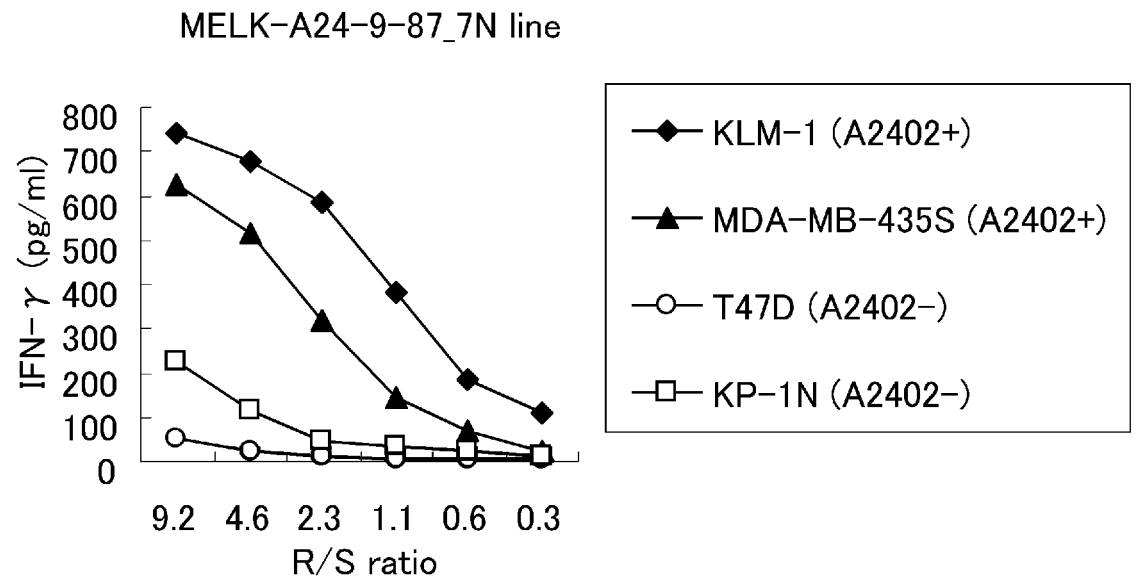

Establishment of CTL lines
Donor B
a
MELK-A24-9-87_1K #1
IFN-γ (pg/ml)
100
80
60
40
20
0
WT
HIV
5.0 2.5 1.3 0.6
R/S ratio
b
MELK-A24-9-87_3M #2
IFN-γ (pg/ml)
140
120
100
80
60
40
20
0
WT
HIV
5.0 2.5 1.3 0.6
R/S ratio
c
MELK-A24-9-87_7N #12
IFN-γ (pg/ml)
600
500
400
300
200
100
0
WT
HIV
5.0 2.5 1.3 0.6
R/S ratio
Donor C
d
MELK-A24-9-87_7N #14
IFN-γ (pg/ml)
100
80
60
40
20
0
WT
HIV
5.0 2.5 1.3 0.6
R/S ratio
e
MELK-A24-9-87_WT #4
IFN-γ (pg/ml)
100
80
60
40
20
0
WT
HIV
5.0 2.5 1.3 0.6
R/S ratio

[Fig. 7]

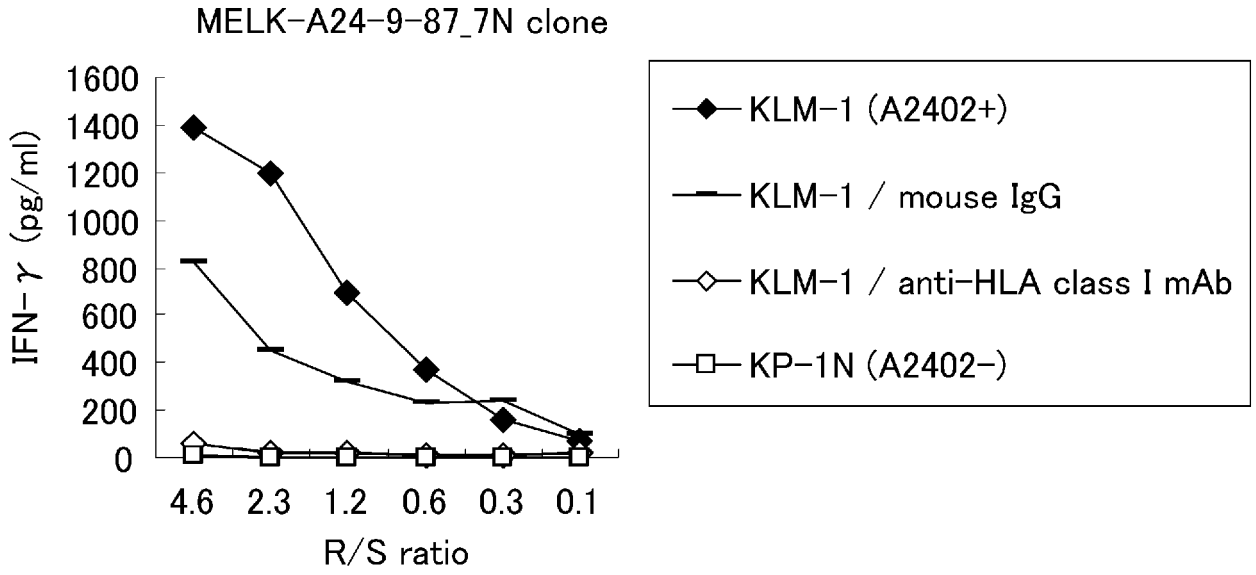

Establishment of CTL clones
Donor B
a
MELK-A24-9-87_1K clone
IFN-γ (pg/ml)
200
150
100
50
0
WT
HIV
5.0 2.5 1.3 0.6
R/S ratio
b
MELK-A24-9-87_3M clone
IFN-γ (pg/ml)
140
120
100
80
60
40
20
0
WT
HIV
5.0 2.5 1.2 0.6
R/S ratio
c
MELK-A24-9-87_7N clone
IFN-γ (pg/ml)
1400
1200
1000
800
600
400
200
0
WT
HIV
5.0 2.5 1.2 0.6
R/S ratio
Donor C
d
MELK-A24-9-87_7N clone
IFN-γ (pg/ml)
2000
1500
1000
500
0
WT
HIV
5.0 2.5 1.3 0.6
R/S ratio

[Fig. 8]

a

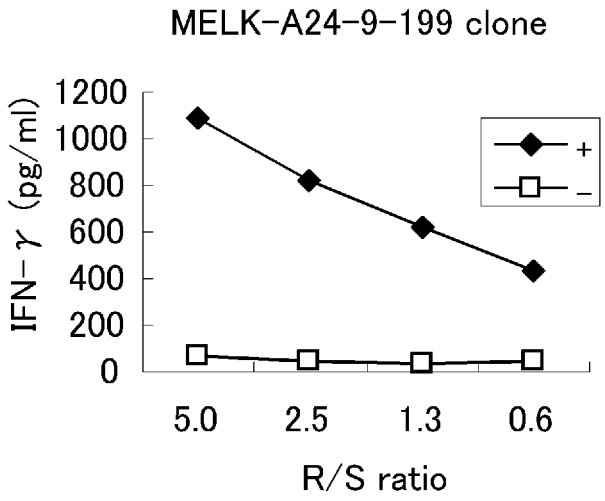

MELK-A24-9-87_7N line
IFN-γ (pg/ml)
800
700
600
500
400
300
200
100
0
9.2 4.6 2.3 1.1 0.6 0.3
R/S ratio
KLM-1 (A2402+)
MDA-MB-435S (A2402+)
T47D (A2402-)
KP-1N (A2402-)

b

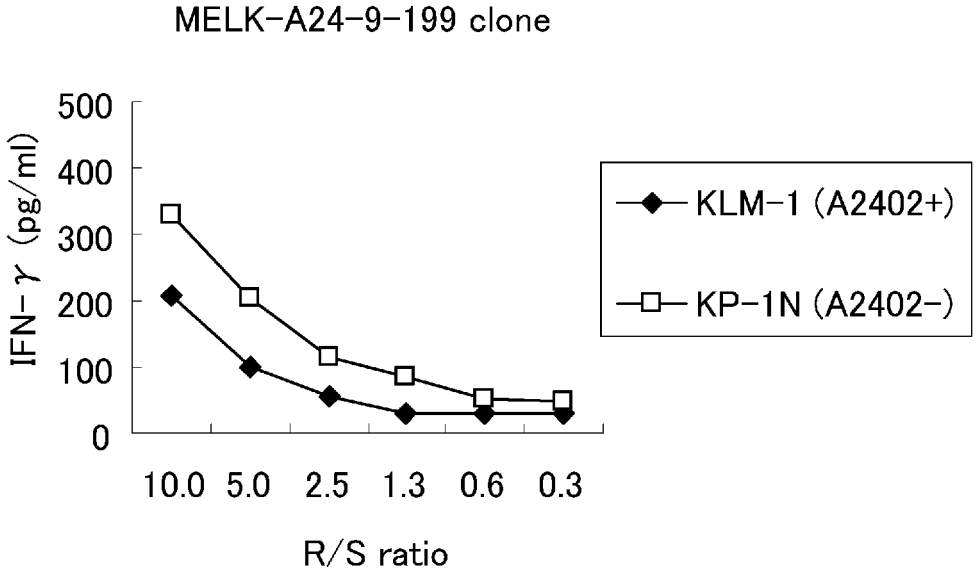

MELK-A24-9-87_7N clone
IFN-γ (pg/ml)
1600
1400
1200
1000
800
600
400
200
0
4.6 2.3 1.2 0.6 0.3 0.1
R/S ratio
KLM-1 (A2402+)
KLM-1 / mouse IgG
KLM-1 / anti-HLA class I mAb
KP-1N (A2402-)

[Fig. 9]

a


MELK-A24-9-199 clone
IFN-γ (pg/ml)
1200
1000
800
600
400
200
0
+
−
5.0
2.5
1.3
0.6
R/S ratio

b


MELK-A24-9-199 clone
IFN-γ (pg/ml)
500
400
300
200
100
0
KLM-1 (A2402+)
KP-1N (A2402−)
10.0
5.0
2.5
1.3
0.6
0.3
R/S ratio