Fig. 1

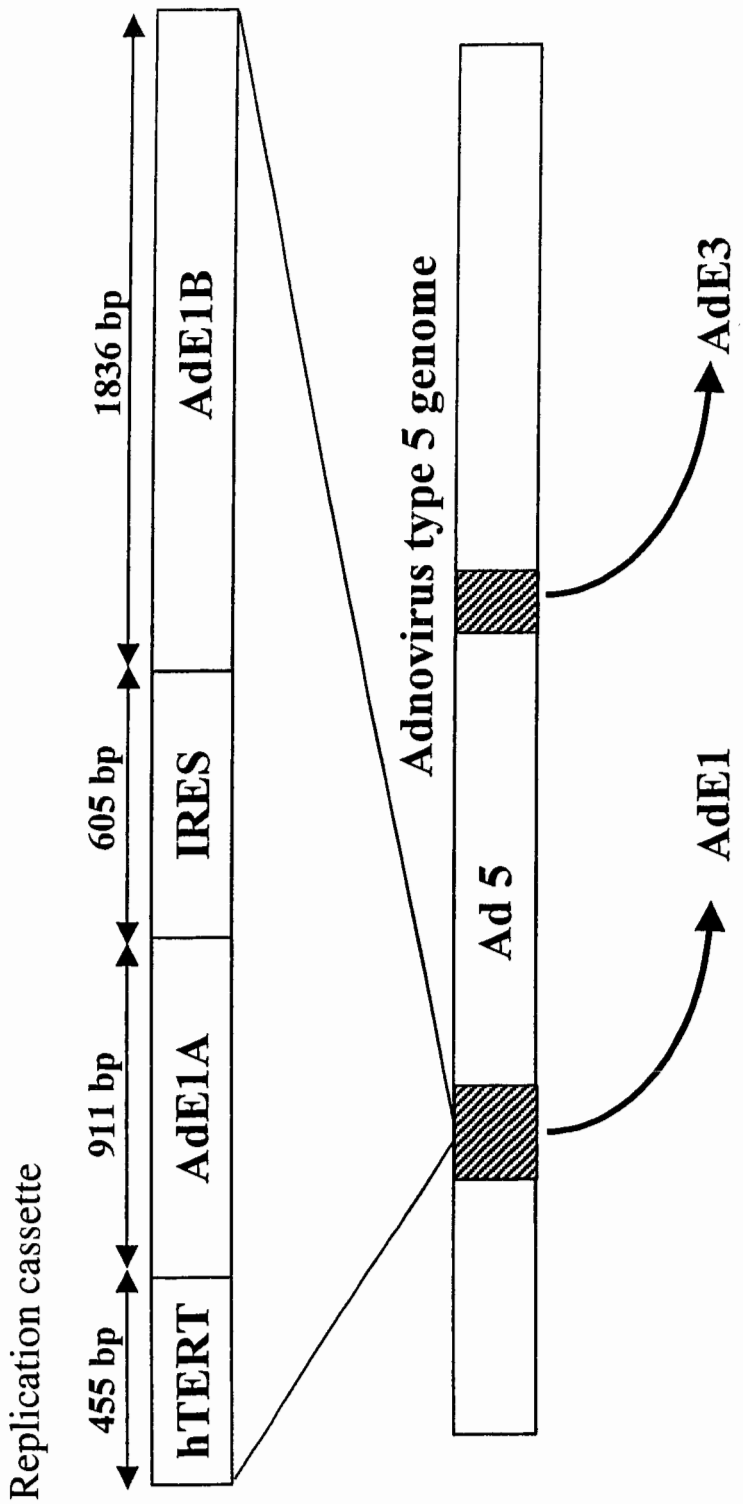

Replication cassette
455 bp
911 bp
605 bp
1836 bp
hTERT
AdE1A
IRES
AdE1B
Adnovirus type 5 genome
Ad 5
AdE1
AdE3

Fig. 2

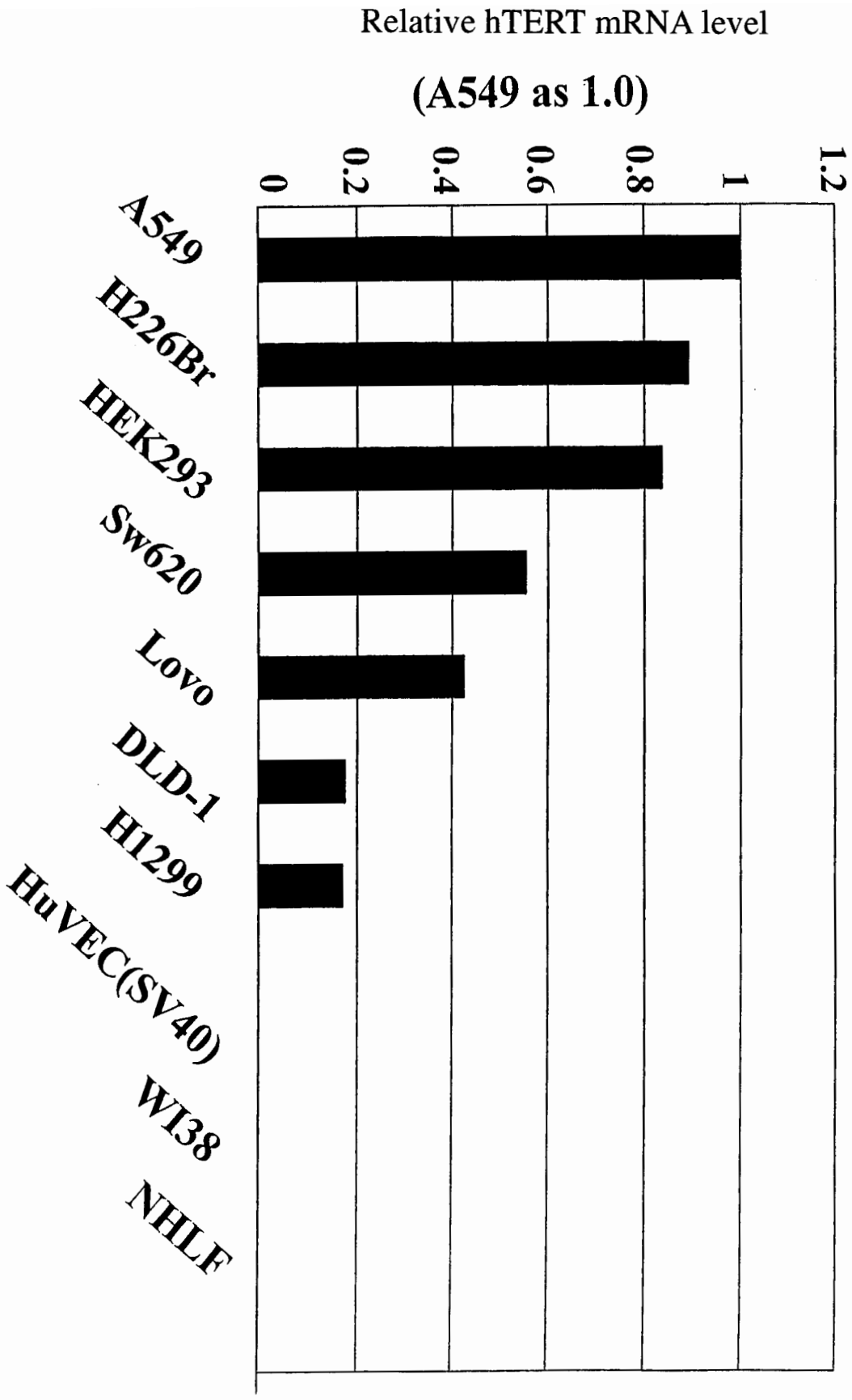
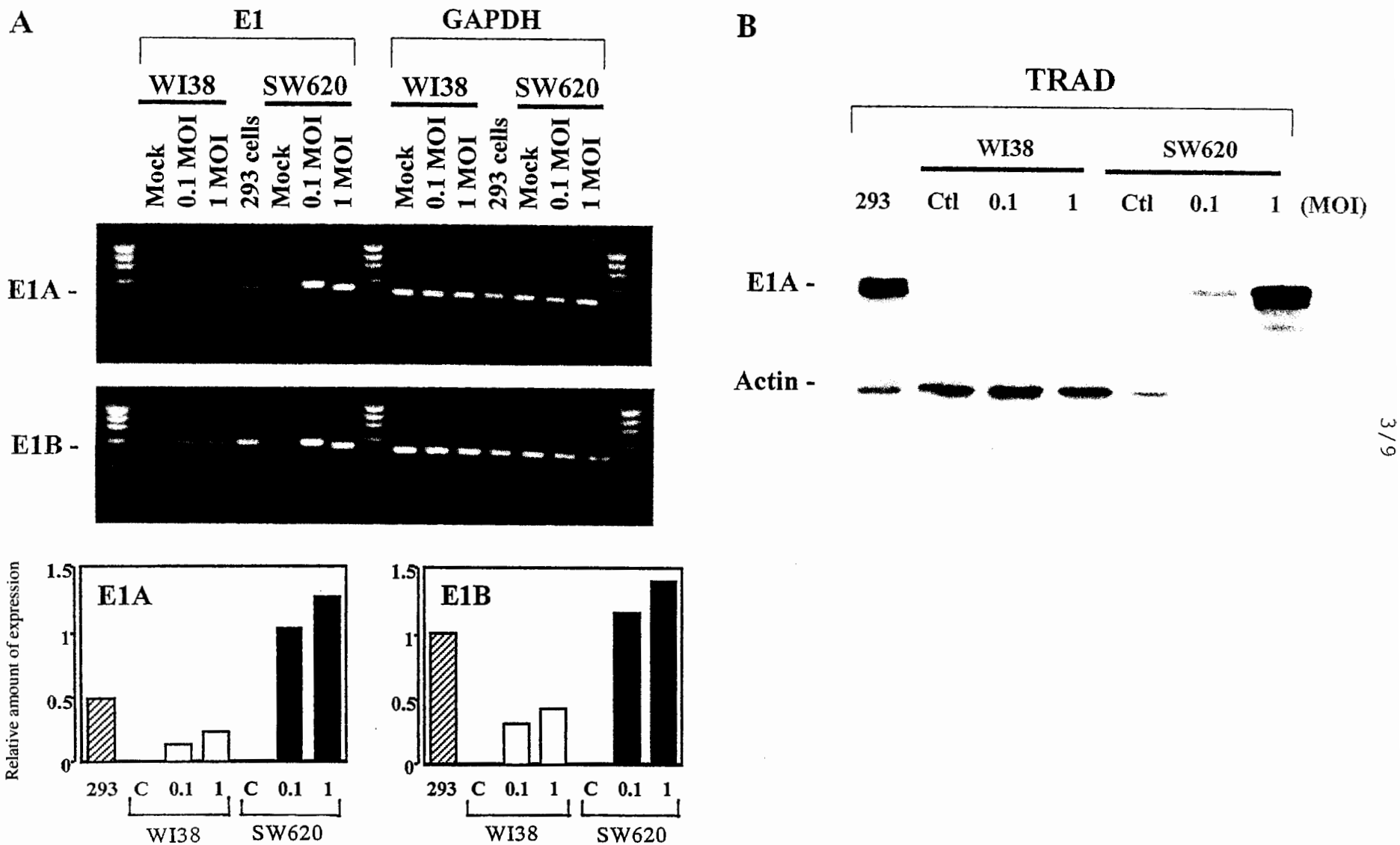

Relative hTERT mRNA level
(A549 as 1.0)
0
0.2
0.4
0.6
0.8
1
1.2
A549
H226Br
HEK293
Sw620
Lovo
DLD-1
H1299
HuVEC(SV40)
WI38
NHLF

Fig. 3


A
E1
GAPDH
WI38
SW620
WI38
SW620
Mock
0.1 MOI
1 MOI
293 cells
Mock
0.1 MOI
1 MOI
Mock
0.1 MOI
1 MOI
293 cells
Mock
0.1 MOI
1 MOI
E1A -
E1B -
Relative amount of expression
E1A
E1B
1.5
1
0.5
0
293
C
0.1
1
C
0.1
1
WI38
SW620
B
TRAD
WI38
SW620
293
Ctl
0.1
1
Ctl
0.1
1
(MOI)
E1A -
Actin -

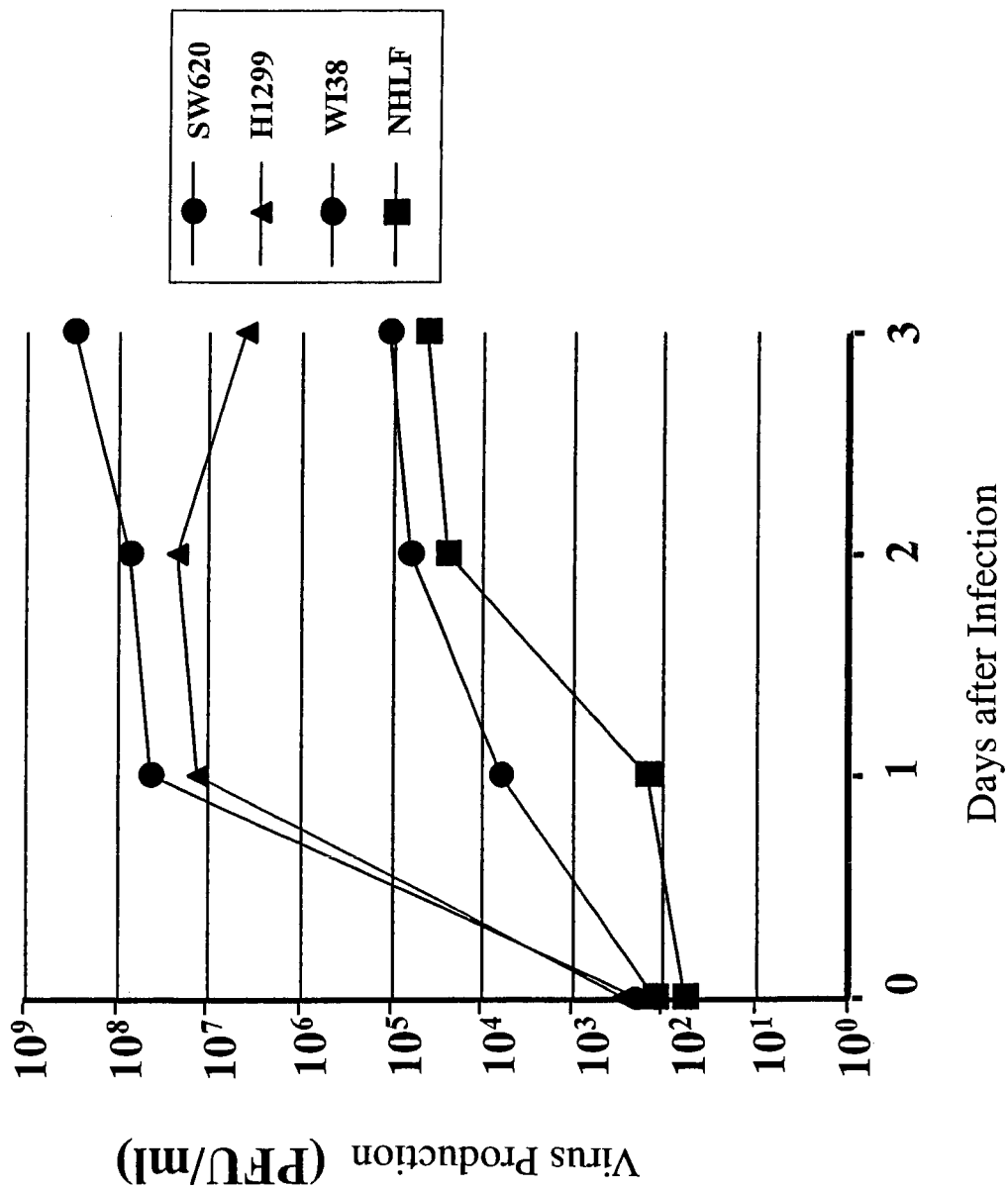

SW620
H1299
WI38
NHLF
Virus Production (PFU/ml)
10^9
10^8
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^0
0
1
2
3
Days after Infection

Fig. 4

Fig. 5

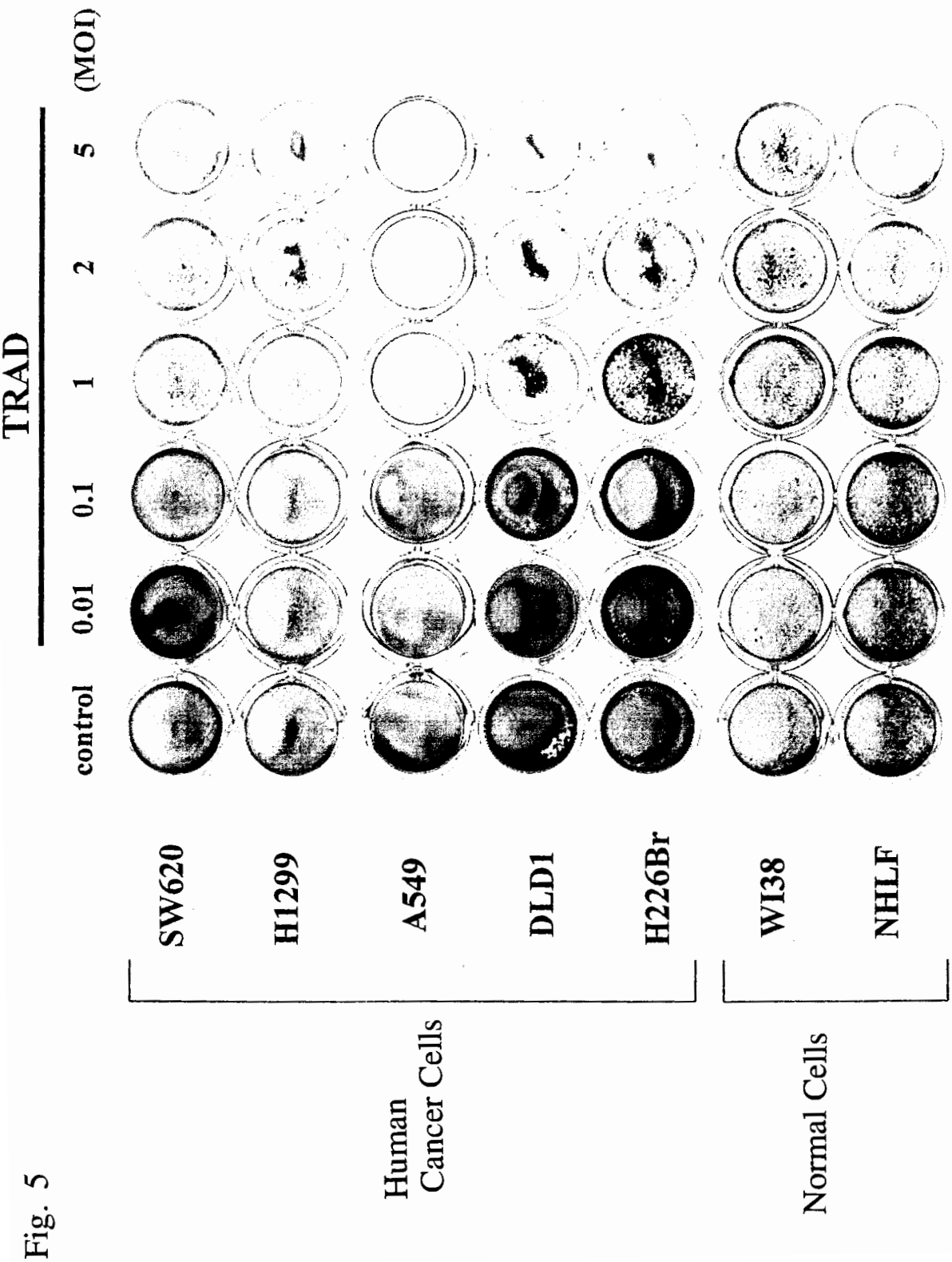

TRAD
control
0.01
0.1
1
2
5
(MOI)
SW620
H1299
A549
DLD1
H226Br
WI38
NHLF
Human
Cancer Cells
Normal Cells

Fig. 6

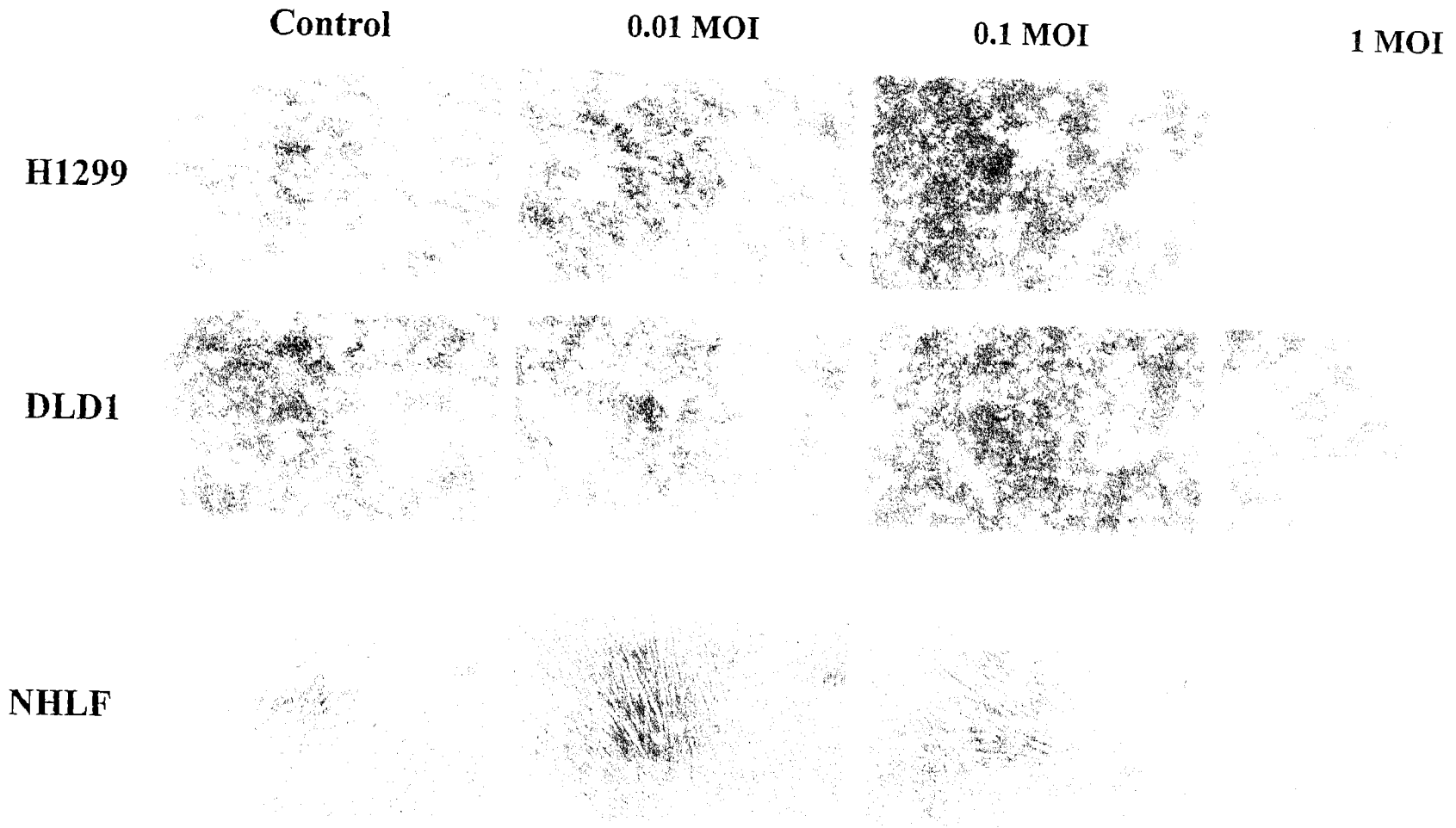


Fig. 7

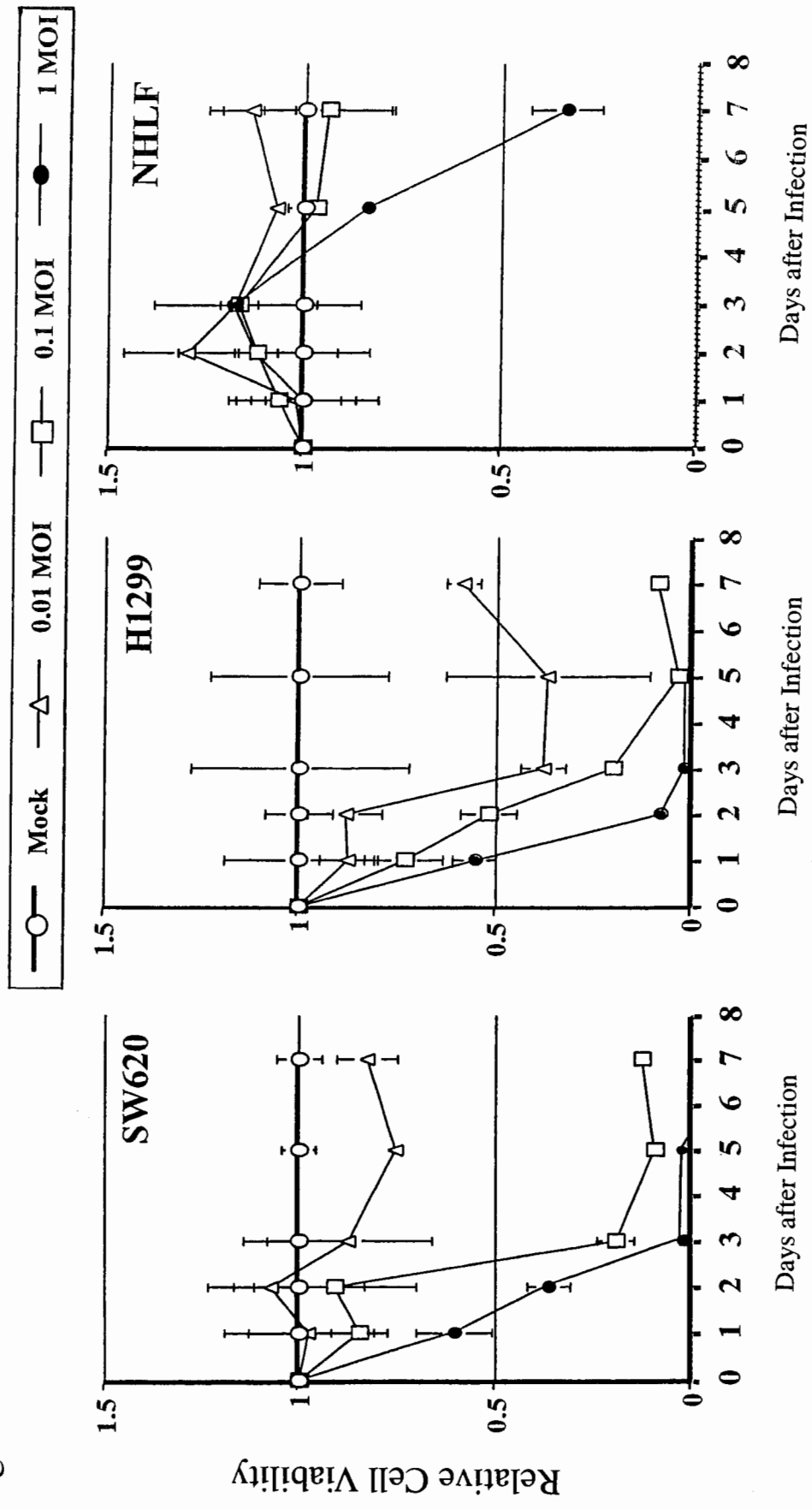
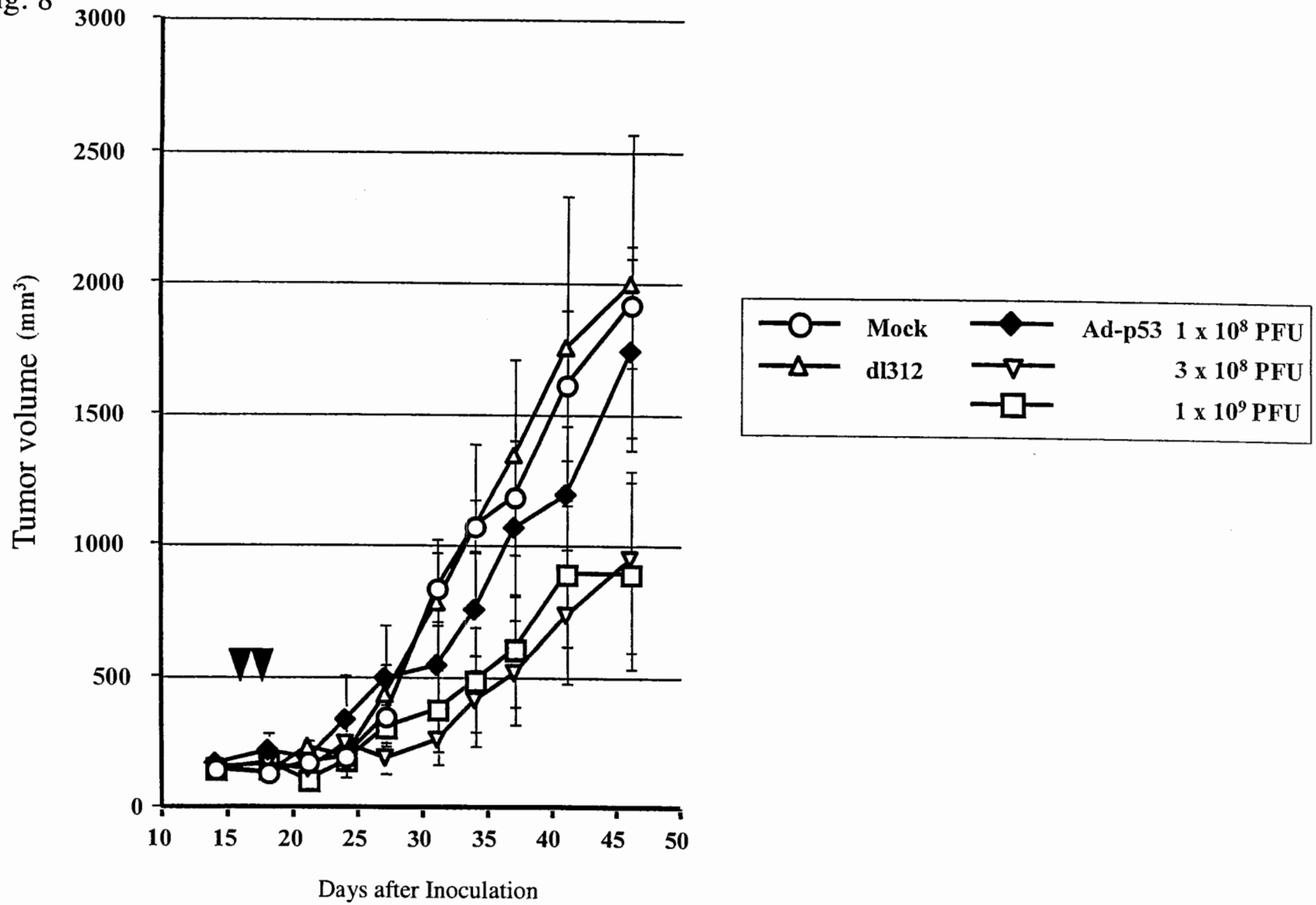

Mock
0.01 MOI
0.1 MOI
1 MOI
SW620
H1299
NHLF
Relative Cell Viability
Days after Infection
Days after Infection
Days after Infection
1.5
1
0.5
0
0 1 2 3 4 5 6 7 8

Fig. 8


3000
2500
2000
1500
1000
500
0
Tumor volume (mm3)
10
15
20
25
30
35
40
45
50
Days after Inoculation
Mock
dl312
Ad-p53 1 x 10^8 PFU
3 x 10^8 PFU
1 x 10^9 PFU

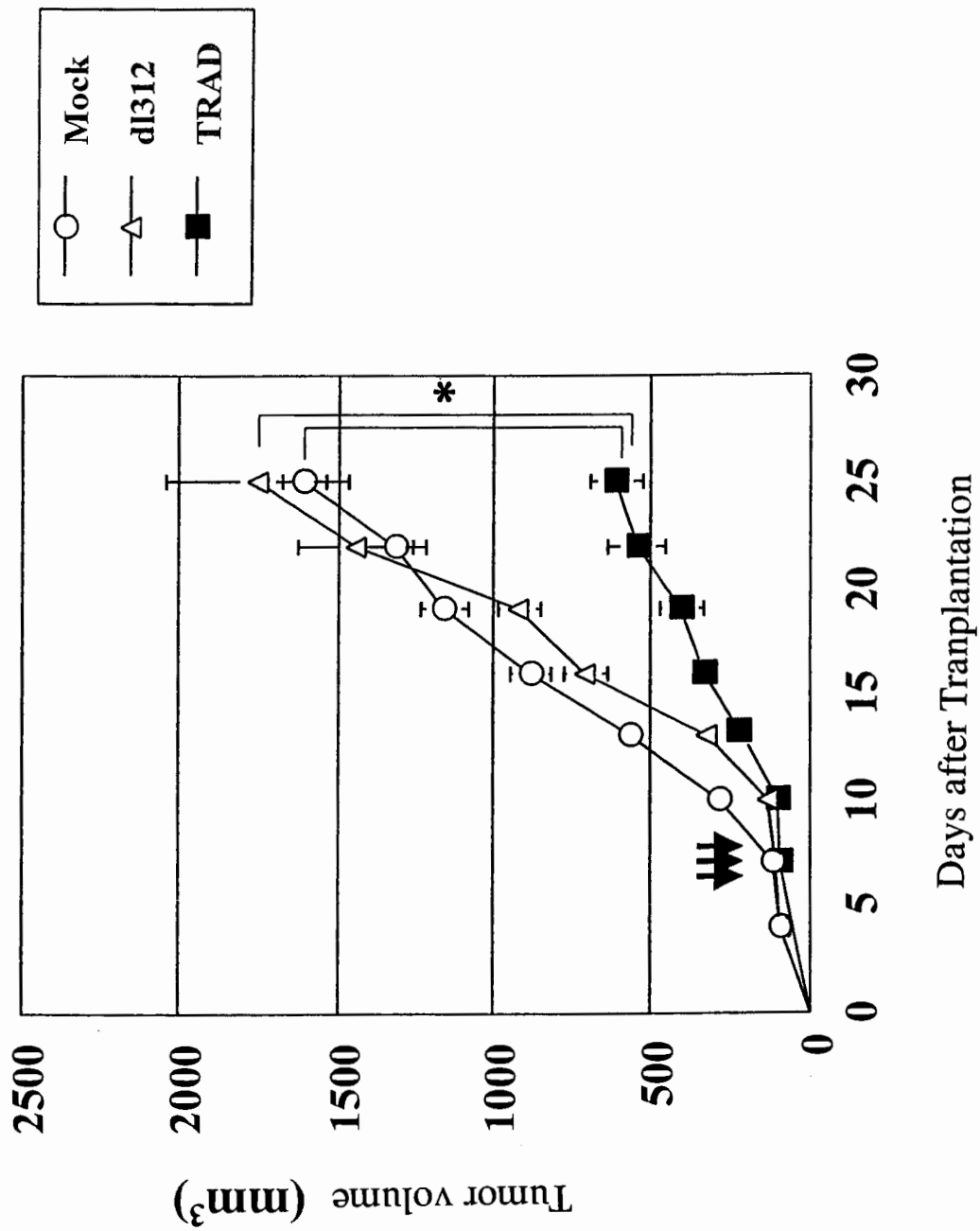

Mock
dl312
TRAD
*
2500
2000
1500
1000
500
0
Tumor volume (mm³)
0
5
10
15
20
25
30
Days after Tranplantation

Fig. 9