Fig. 1

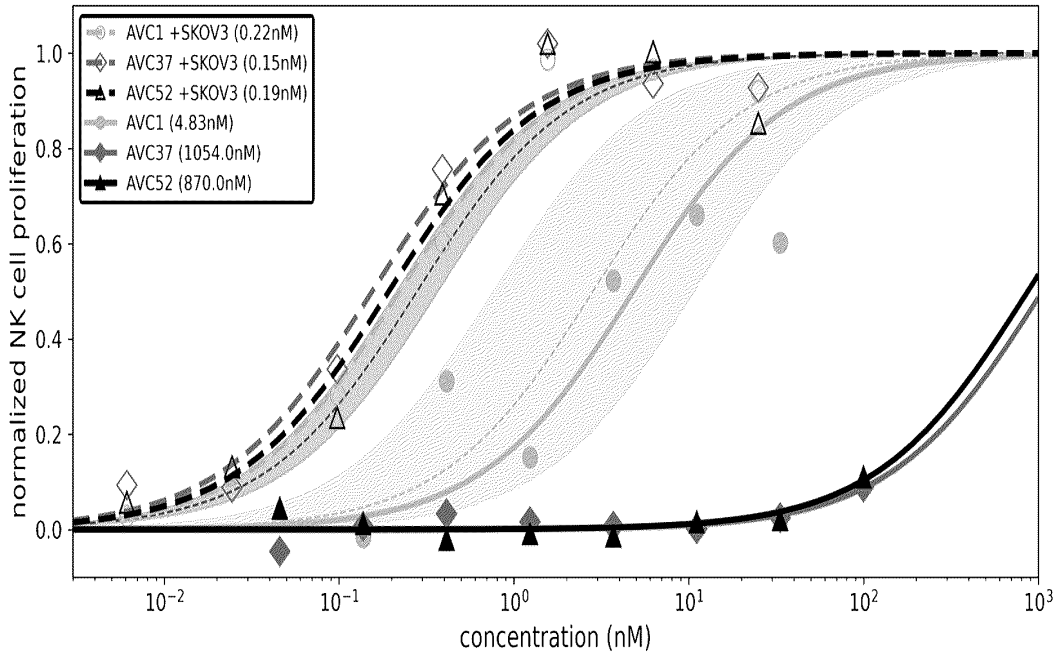

AVC1 +SKOV3 (0.22nM)
AVC37 +SKOV3 (0.15nM)
AVC52 +SKOV3 (0.19nM)
AVC1 (4.83nM)
AVC37 (1054.0nM)
AVC52 (870.0nM)
normalized NK cell proliferation
concentration (nM)

Fig. 2

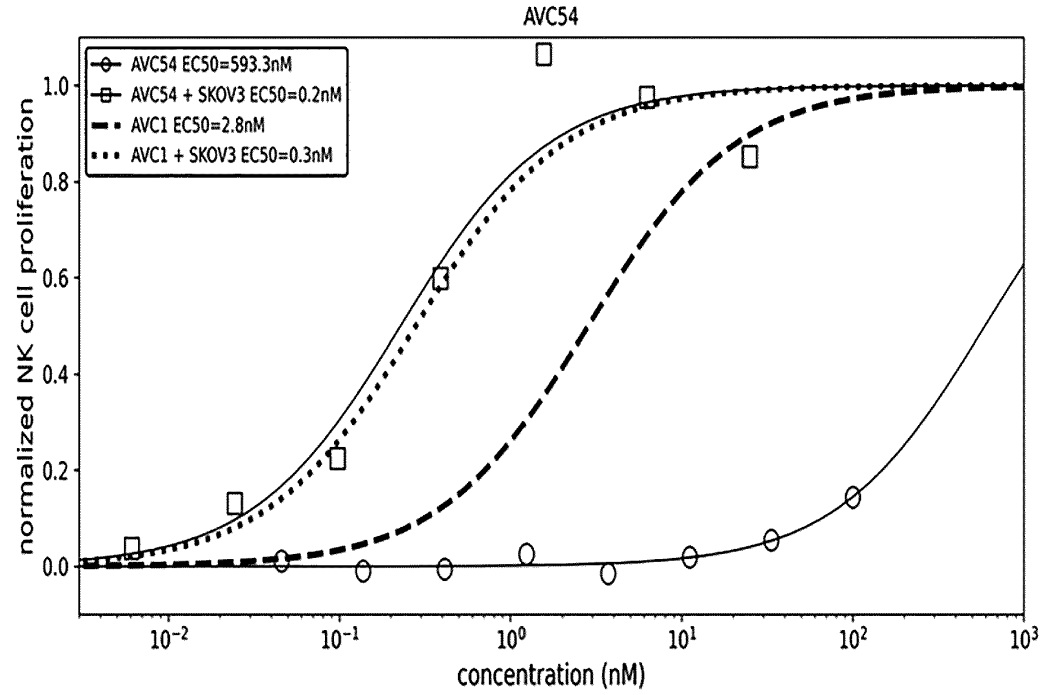

AVC54
AVC54 EC50=593.3nM
AVC54 + SKOV3 EC50=0.2nM
AVC1 EC50=2.8nM
AVC1 + SKOV3 EC50=0.3nM
normalized NK cell proliferation
concentration (nM)

Fig. 3

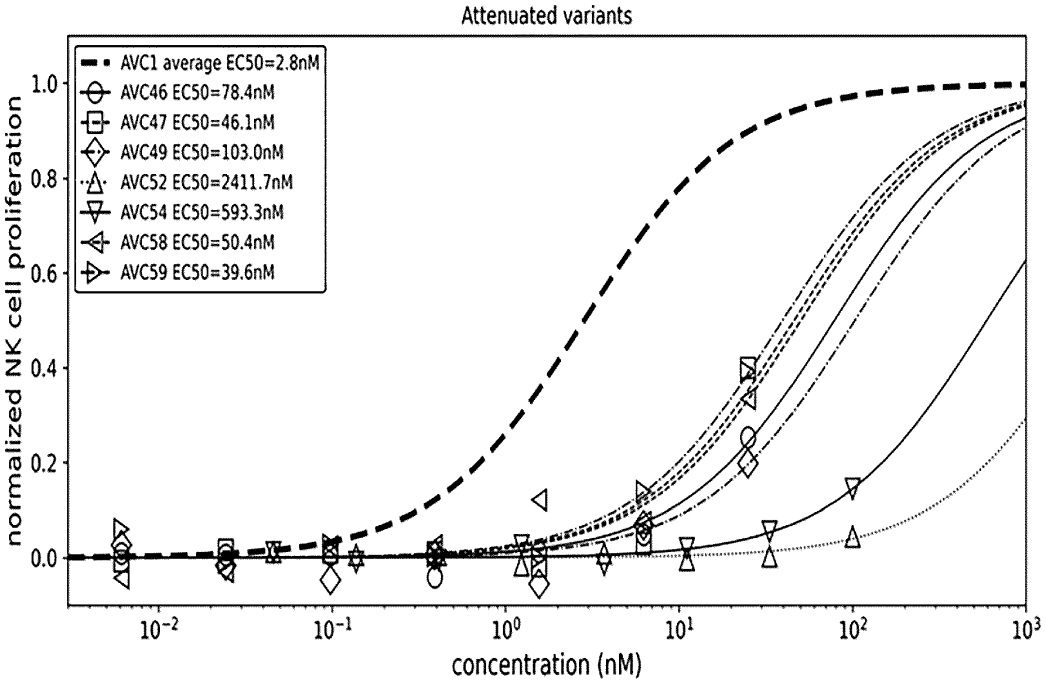

Attenuated variants
AVC1 average EC50=2.8nM
AVC46 EC50=78.4nM
AVC47 EC50=46.1nM
AVC49 EC50=103.0nM
AVC52 EC50=2411.7nM
AVC54 EC50=593.3nM
AVC58 EC50=50.4nM
AVC59 EC50=39.6nM
normalized NK cell proliferation
1.0
0.8
0.6
0.4
0.2
0.0
10^{-2}
10^{-1}
10^{0}
10^{1}
10^{2}
10^{3}
concentration (nM)

Fig. 4

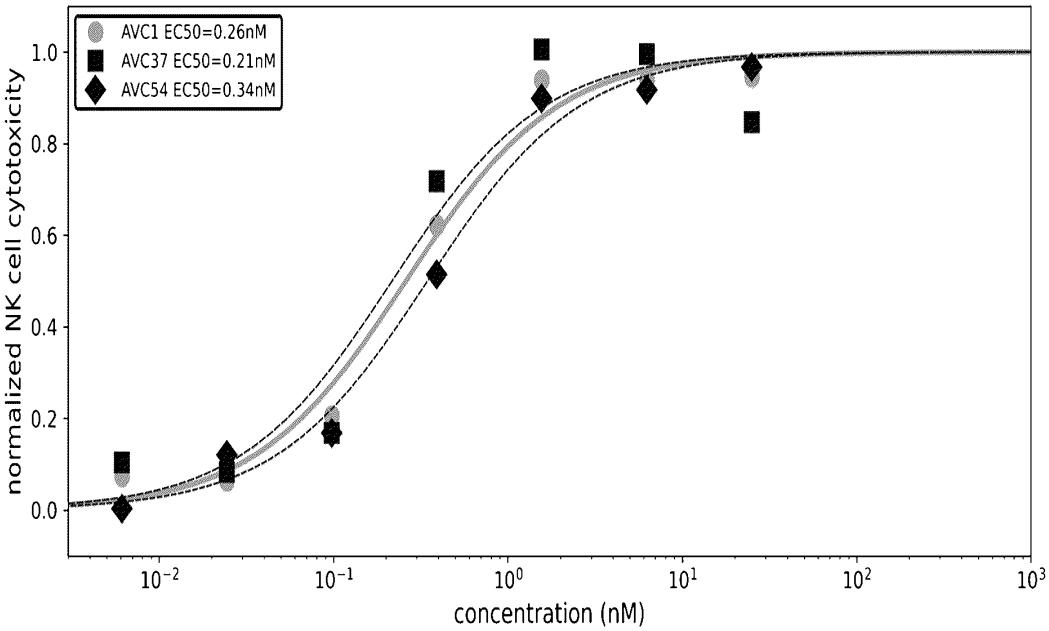

AVC1 EC50=0.26nM
AVC37 EC50=0.21nM
AVC54 EC50=0.34nM
normalized NK cell cytotoxicity
1.0
0.8
0.6
0.4
0.2
0.0
10^{-2}
10^{-1}
10^{0}
10^{1}
10^{2}
10^{3}
concentration (nM)

Fig. 5

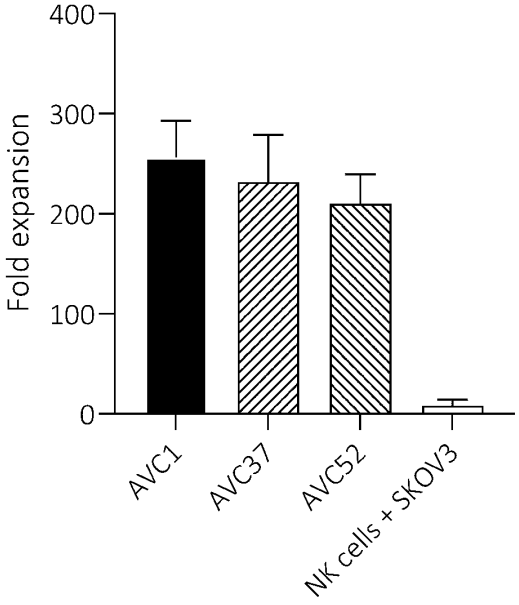

Fold expansion
400
300
200
100
0
AVC1
AVC37
AVC52
NK cells + SKOV3

Fig. 6A

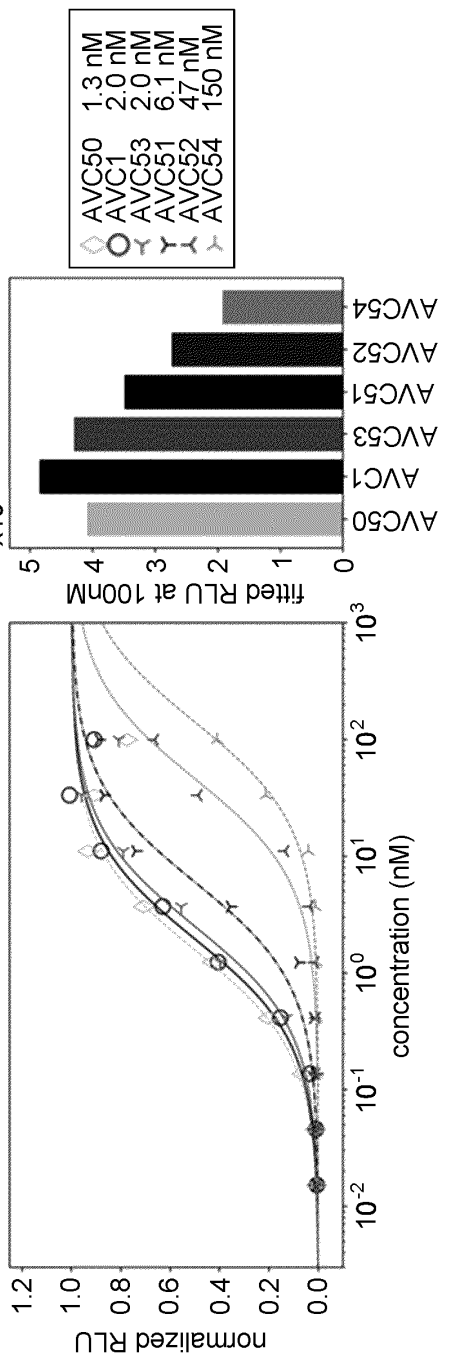

normalized RLU
concentration (nM)
fitted RLU at 100nM
x10^5
AVC50
AVC1
AVC53
AVC51
AVC52
AVC54
AVC50 1.3 nM
AVC1 2.0 nM
AVC53 2.0 nM
AVC51 6.1 nM
AVC52 47 nM
AVC54 150 nM

Fig. 6B

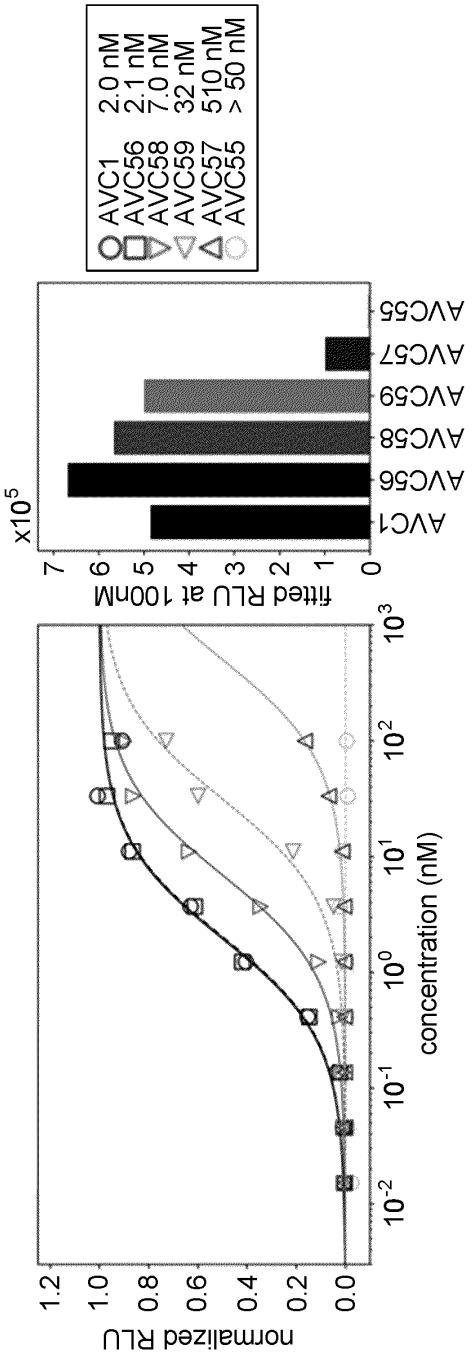

normalized RLU
concentration (nM)
fitted RLU at 100nM
x10^5
AVC1
AVC56
AVC58
AVC59
AVC57
AVC55
AVC1 2.0 nM
AVC56 2.1 nM
AVC58 7.0 nM
AVC59 32 nM
AVC57 510 nM
AVC55 > 50 nM

Fig. 6C

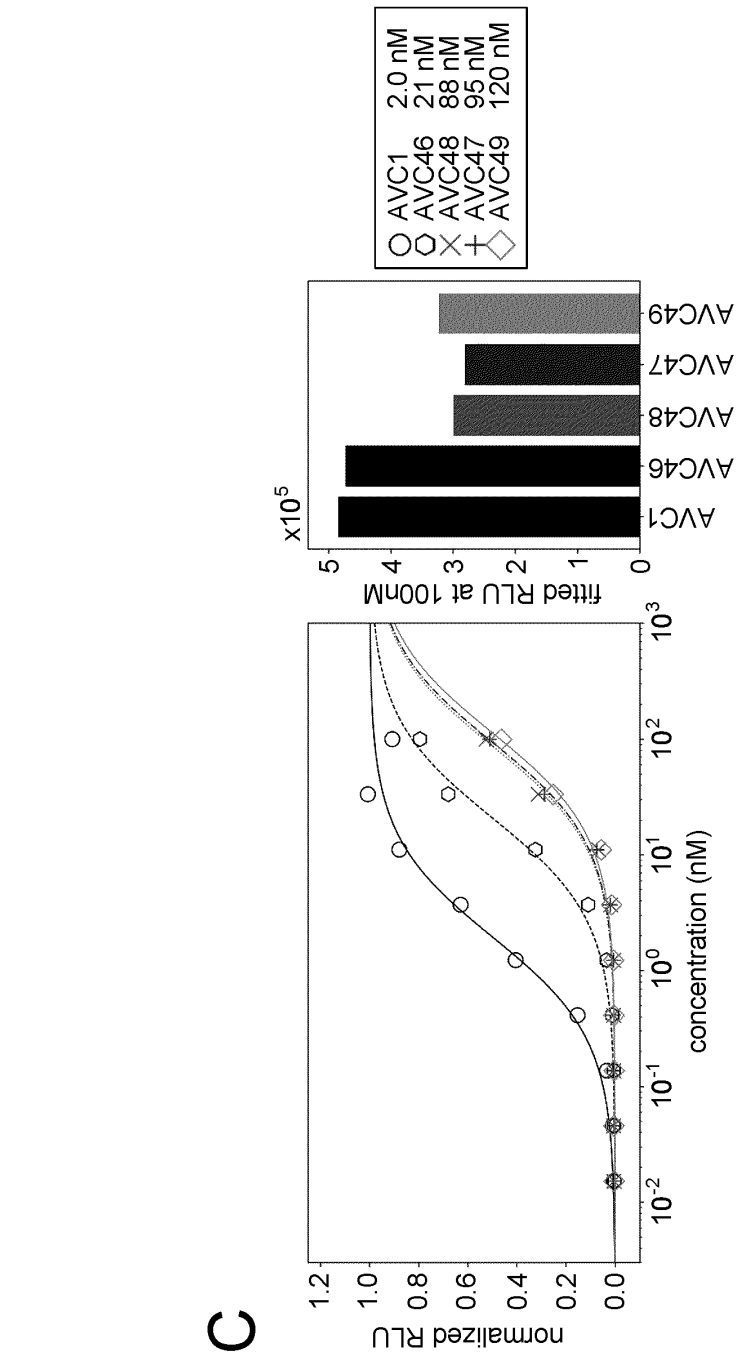

AVC1 2.0 nM
AVC46 21 nM
AVC48 88 nM
AVC47 95 nM
AVC49 120 nM
x10^5
fitted RLU at 100nM
AVC1
AVC46
AVC48
AVC47
AVC49
normalized RLU
concentration (nM)

Fig. 7

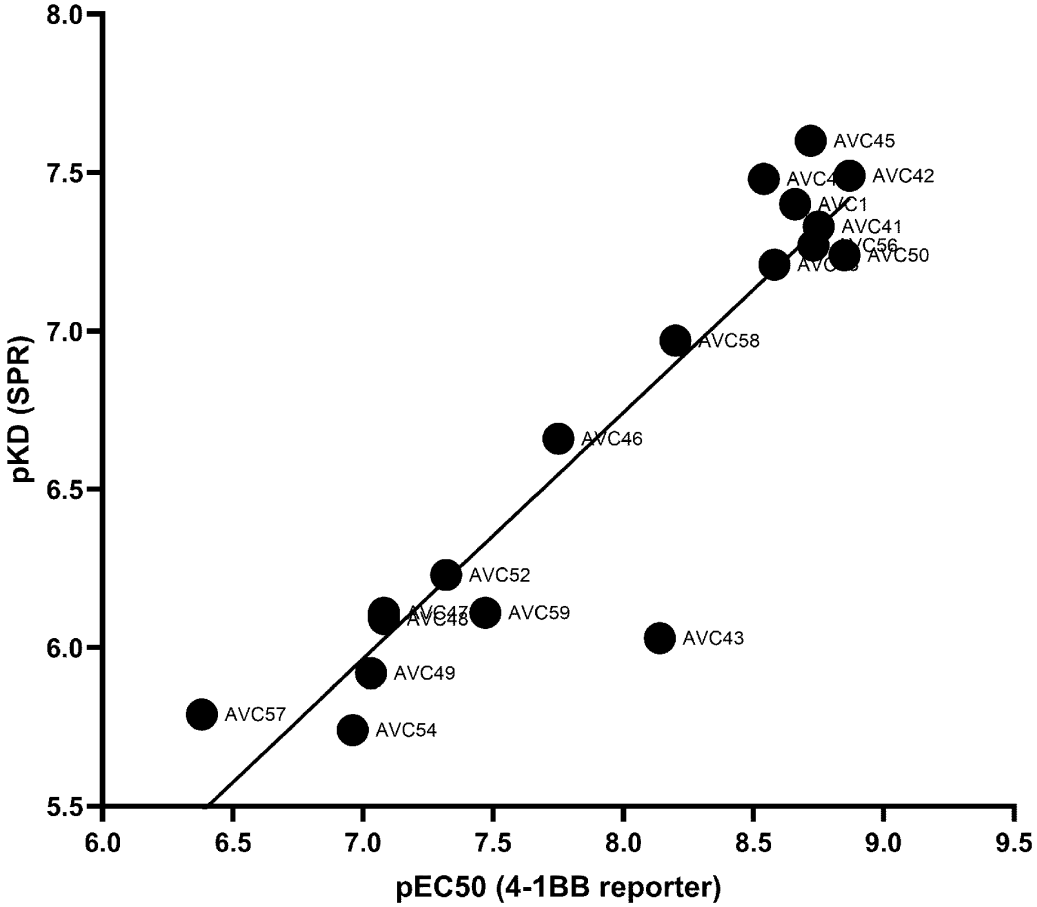

8.0
7.5
7.0
6.5
6.0
5.5
pKD (SPR)
6.0
6.5
7.0
7.5
8.0
8.5
9.0
9.5
pEC50 (4-1BB reporter)
AVC45
AVC42
AVC1
AVC41
AVC50
AVC58
AVC46
AVC52
AVC59
AVC43
AVC49
AVC57
AVC54

Fig. 8

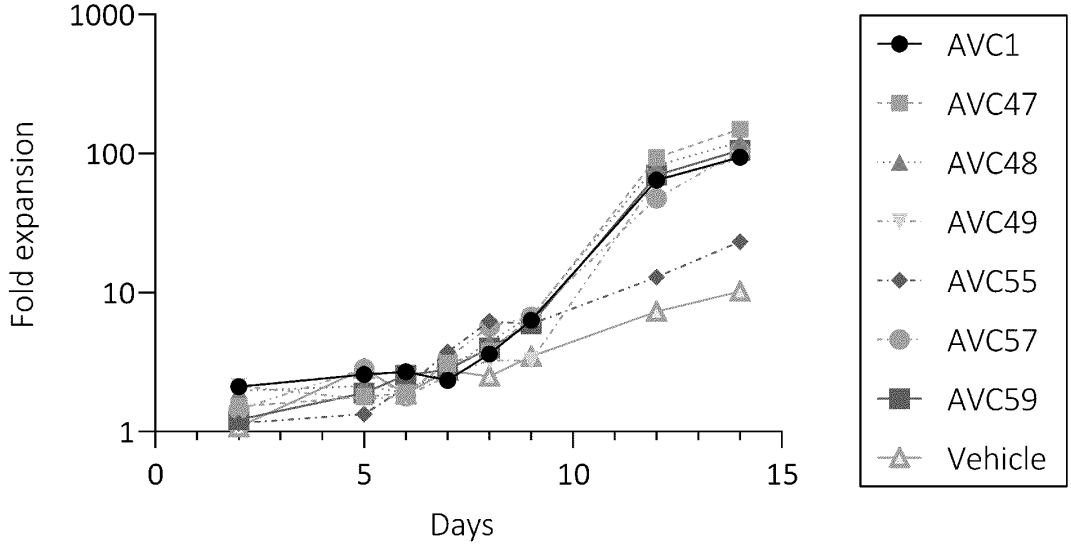

1000
100
10
1
Fold expansion
0
5
10
15
Days
AVC1
AVC47
AVC48
AVC49
AVC55
AVC57
AVC59
Vehicle

Fig. 9

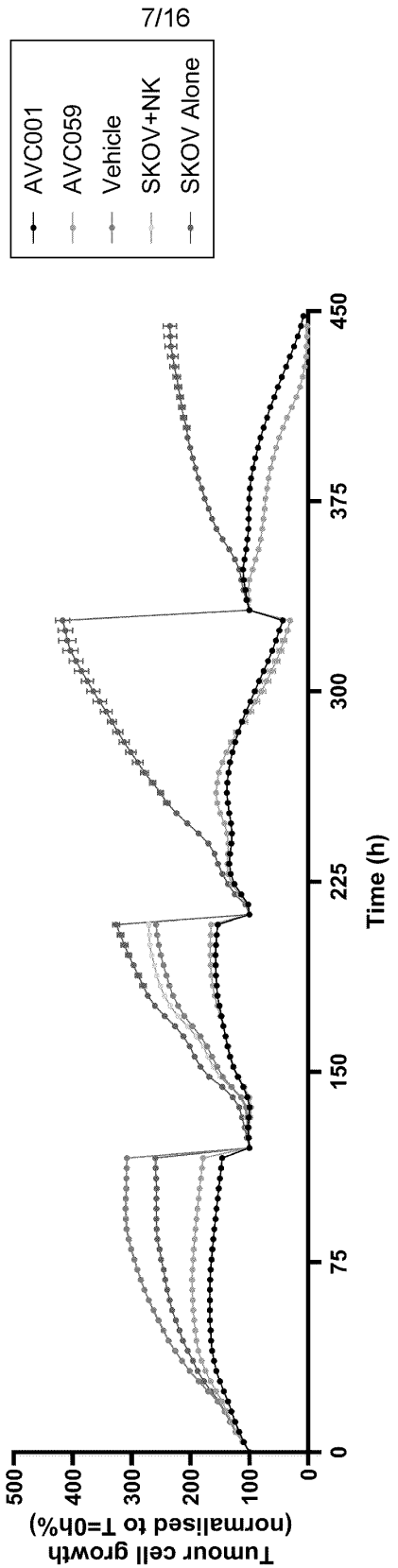

AVC001
AVC059
Vehicle
SKOV+NK
SKOV Alone
Tumour cell growth
(normalised to T=0h%)
0
100
200
300
400
500
0
75
150
225
300
375
450
Time (h)

Fig. 10A

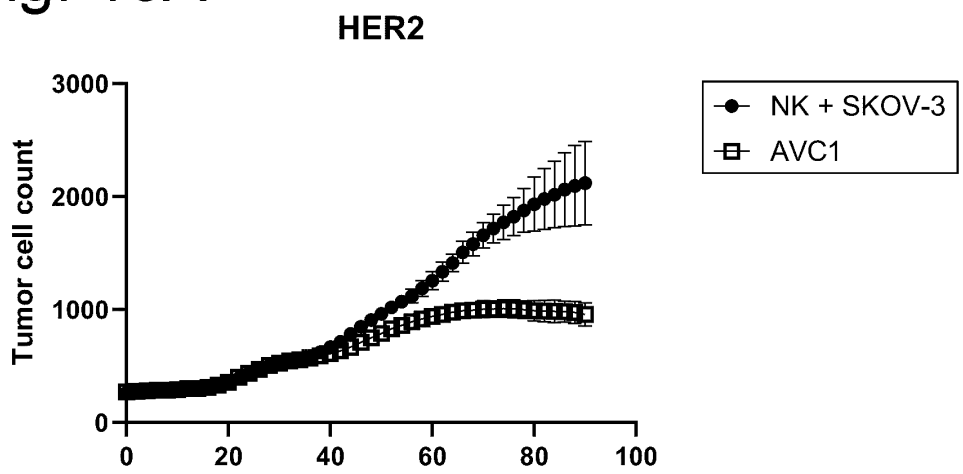


Fig. 10B

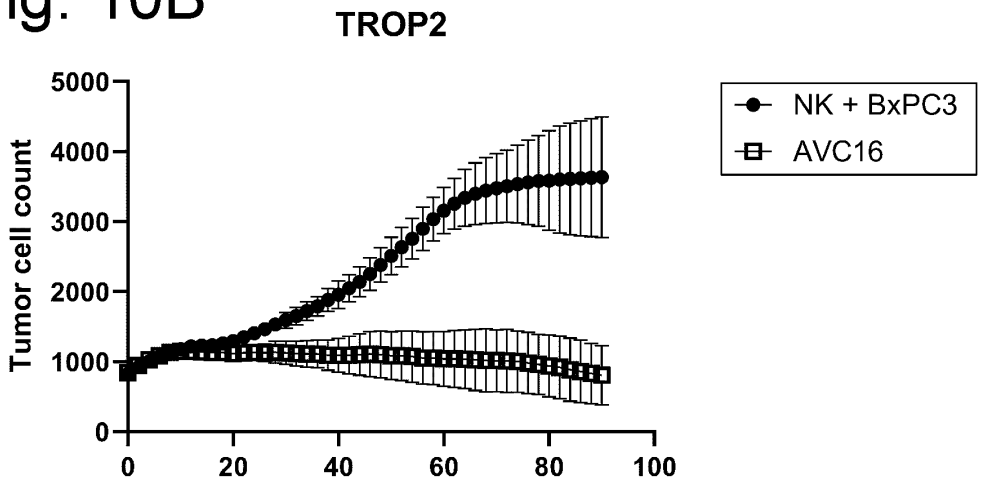


Fig. 10C

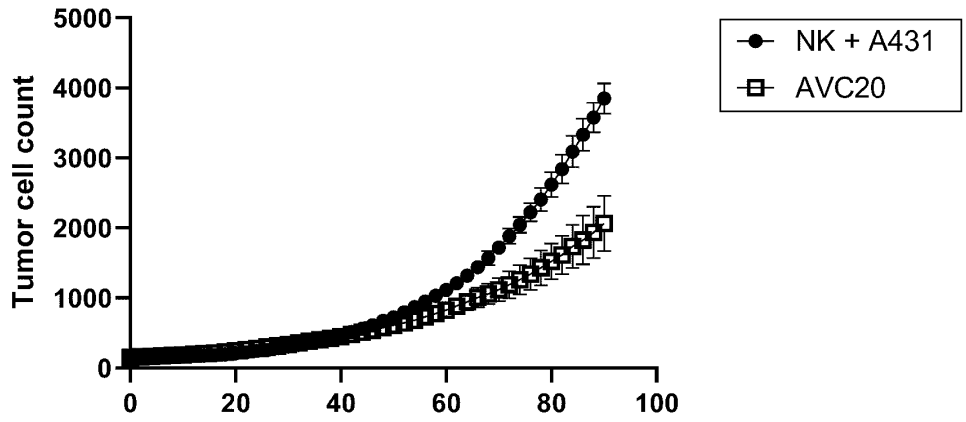


Fig. 11A

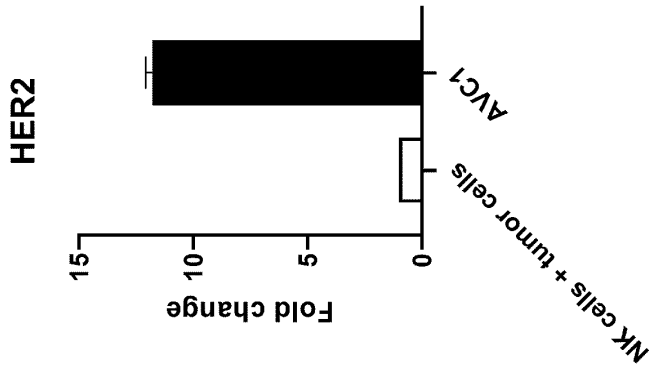


Fig. 11B

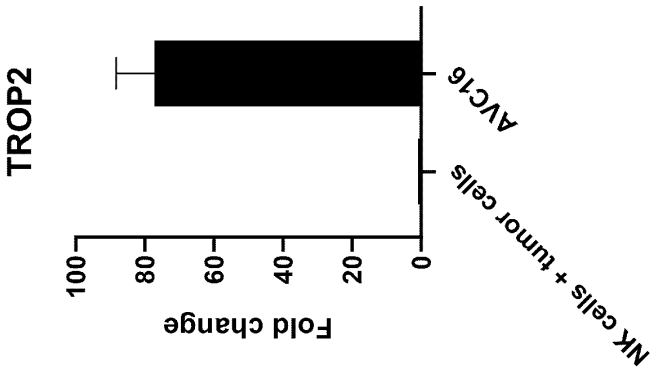


Fig. 11C

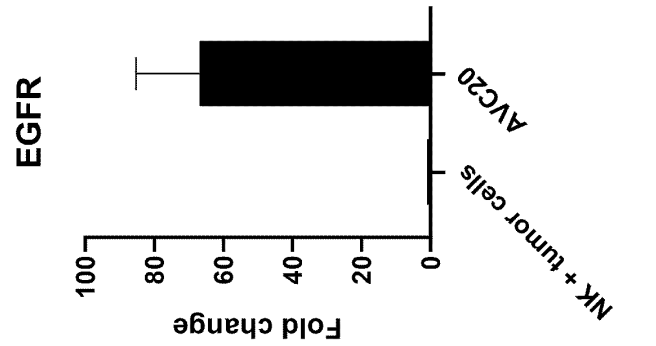


Fig. 12

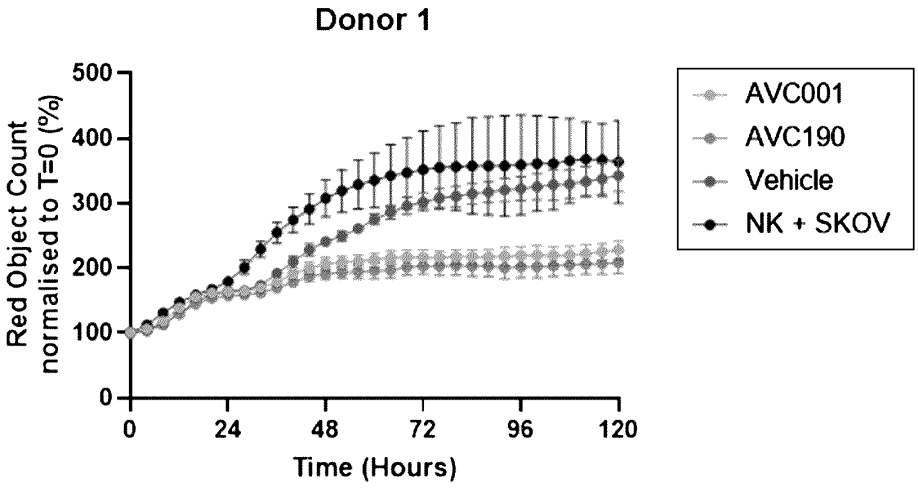

Donor 1
Red Object Count normalised to T=0 (%)
500
400
300
200
100
0
0
24
48
72
96
120
Time (Hours)
AVC001
AVC190
Vehicle
NK + SKOV

Fig. 13

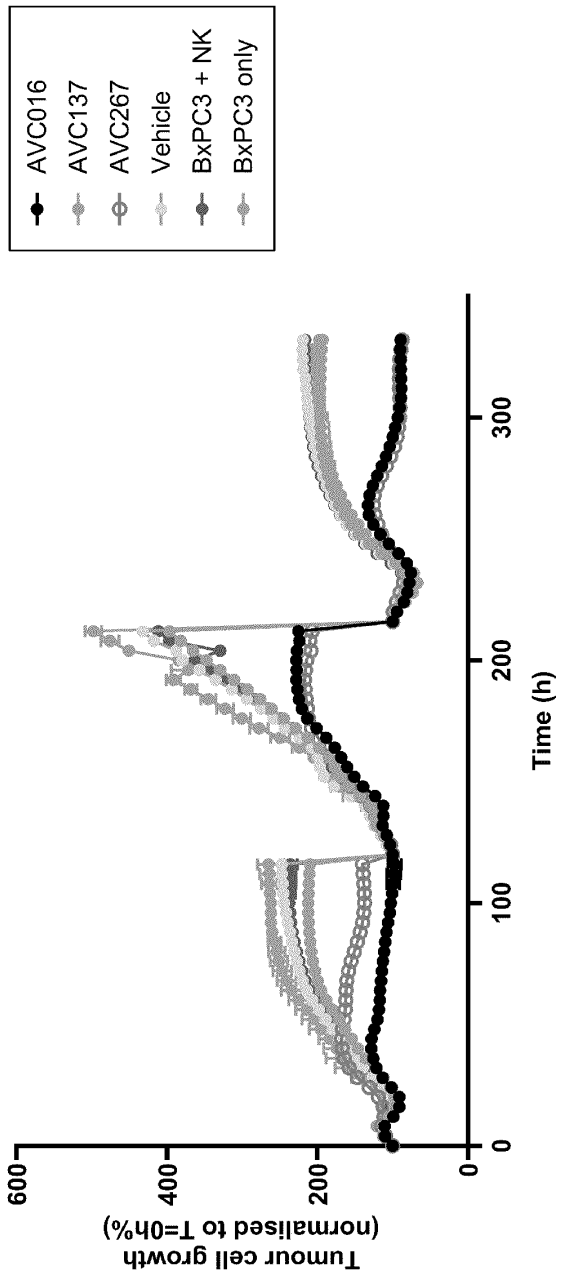

AVC016
AVC137
AVC267
Vehicle
BxPC3 + NK
BxPC3 only
Tumour cell growth
(normalised to T=0h%)
600
400
200
0
0
100
200
300
Time (h)

Fig. 14

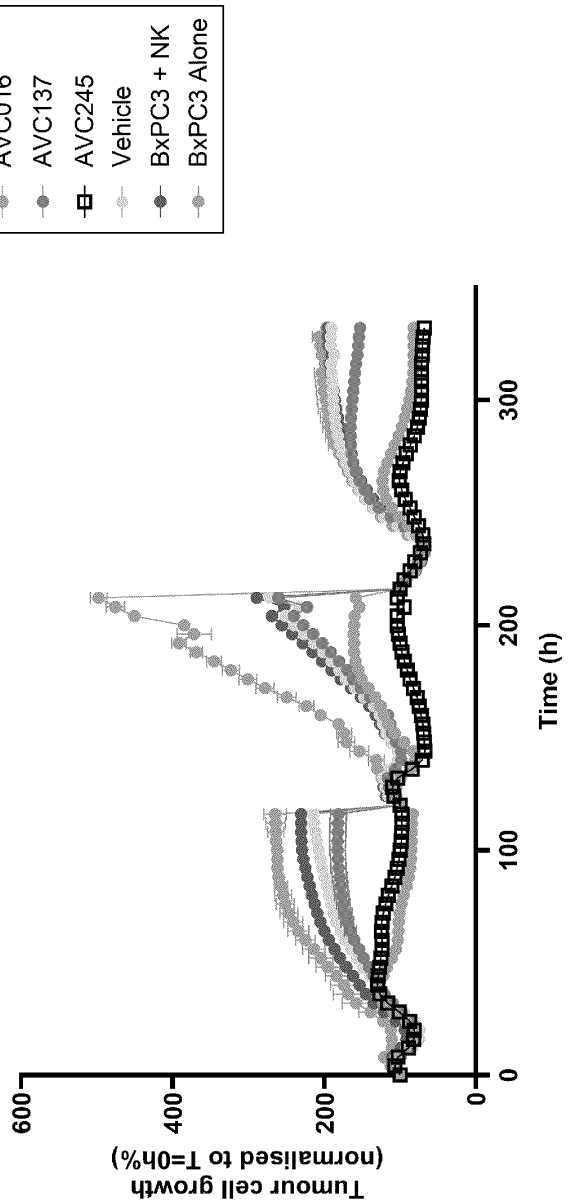

AVC016
AVC137
AVC245
Vehicle
BxPC3 + NK
BxPC3 Alone
Tumour cell growth
(normalised to T=0h%)
600
400
200
0
0
100
200
300
Time (h)

Fig. 15

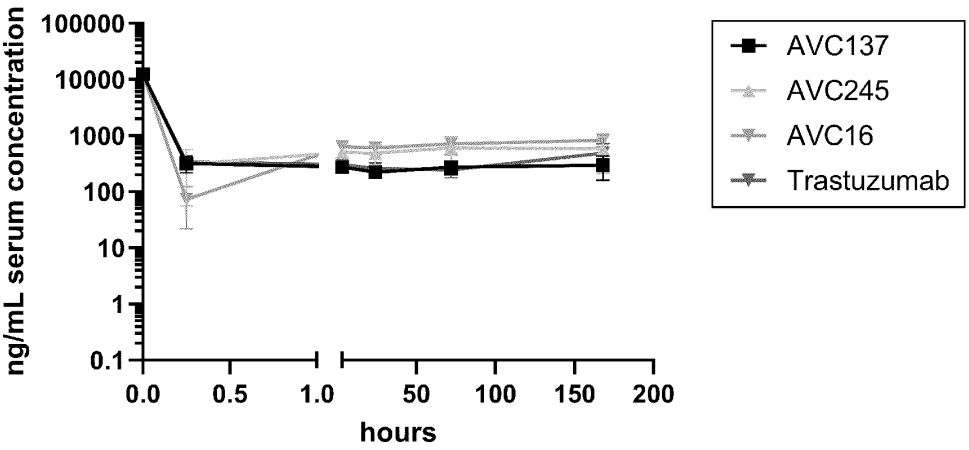


Fig. 16A

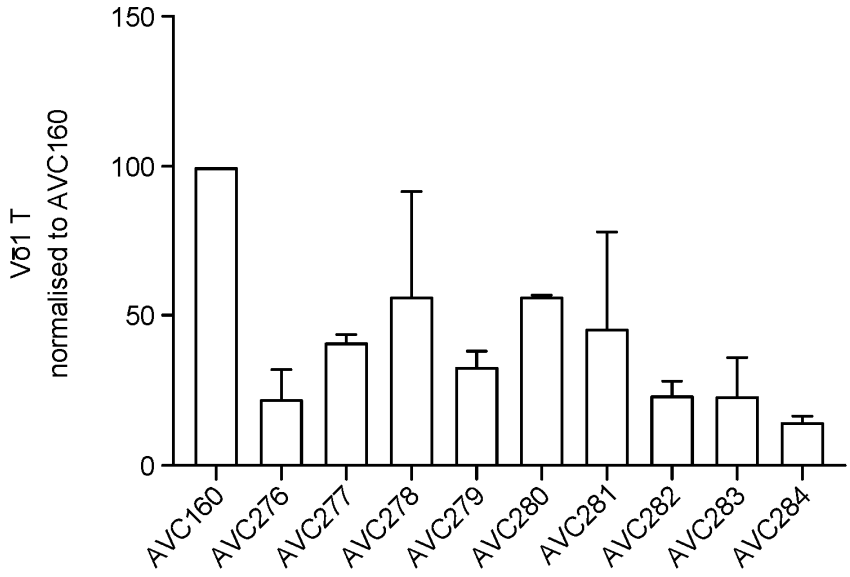


Fig. 16B

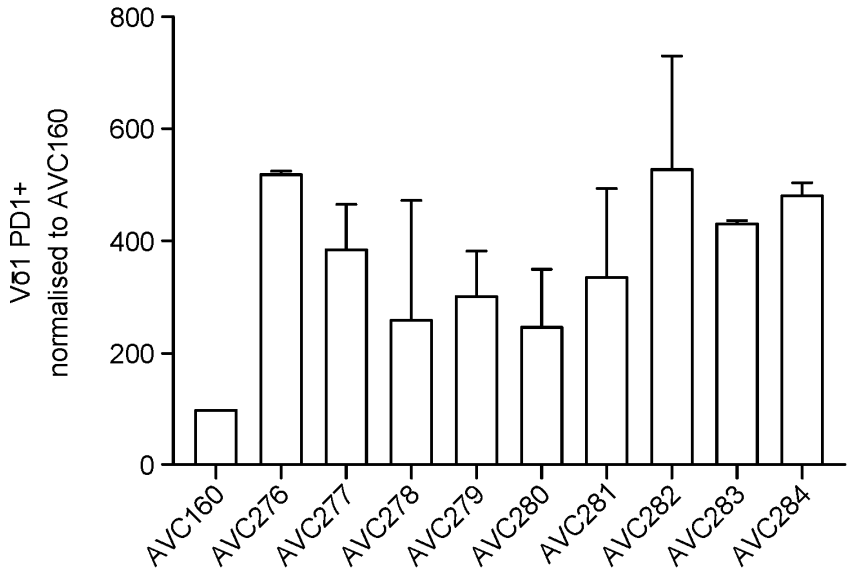


Fig. 16C

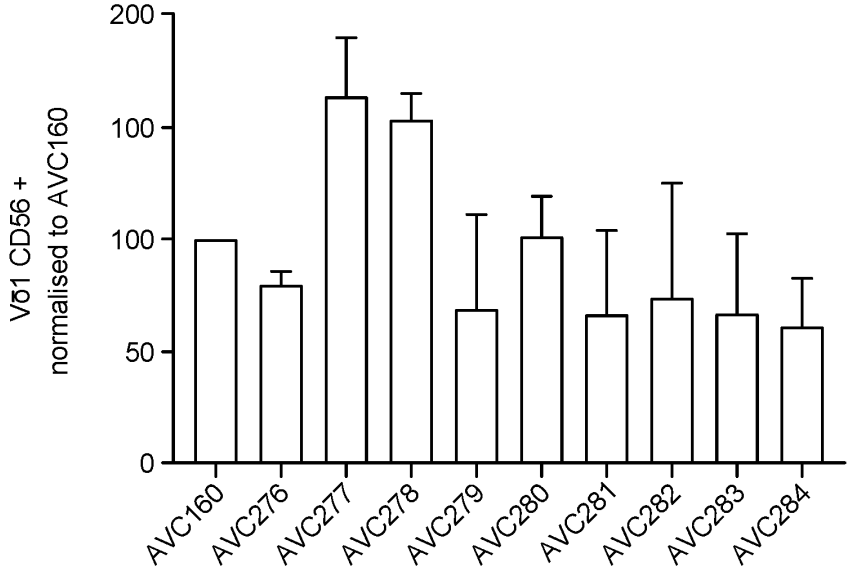


Fig. 17

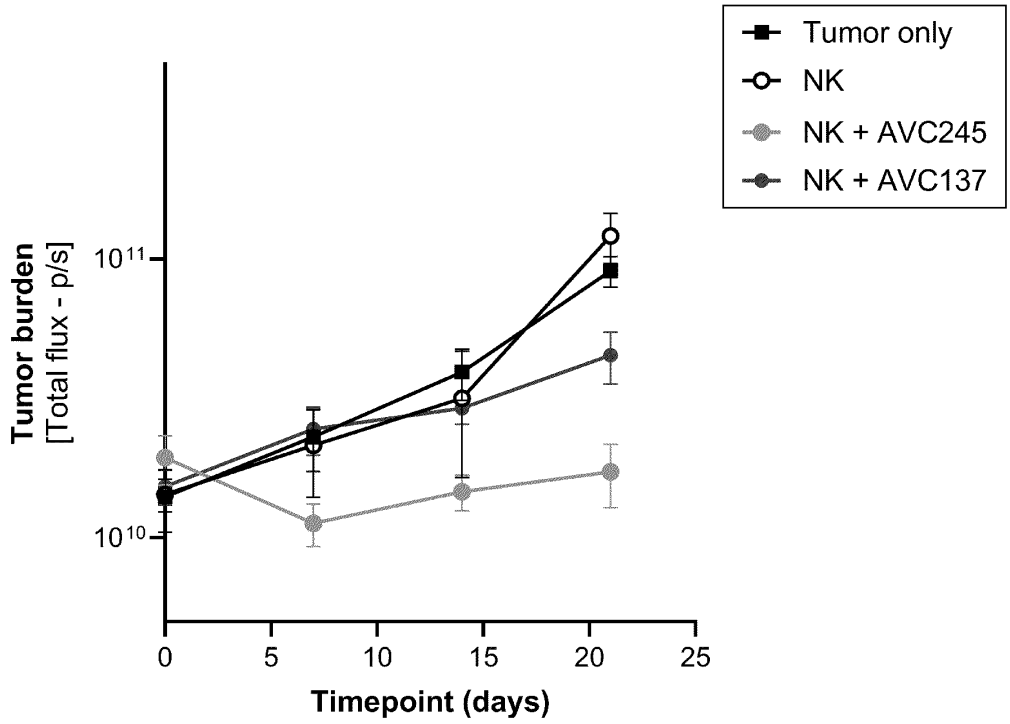
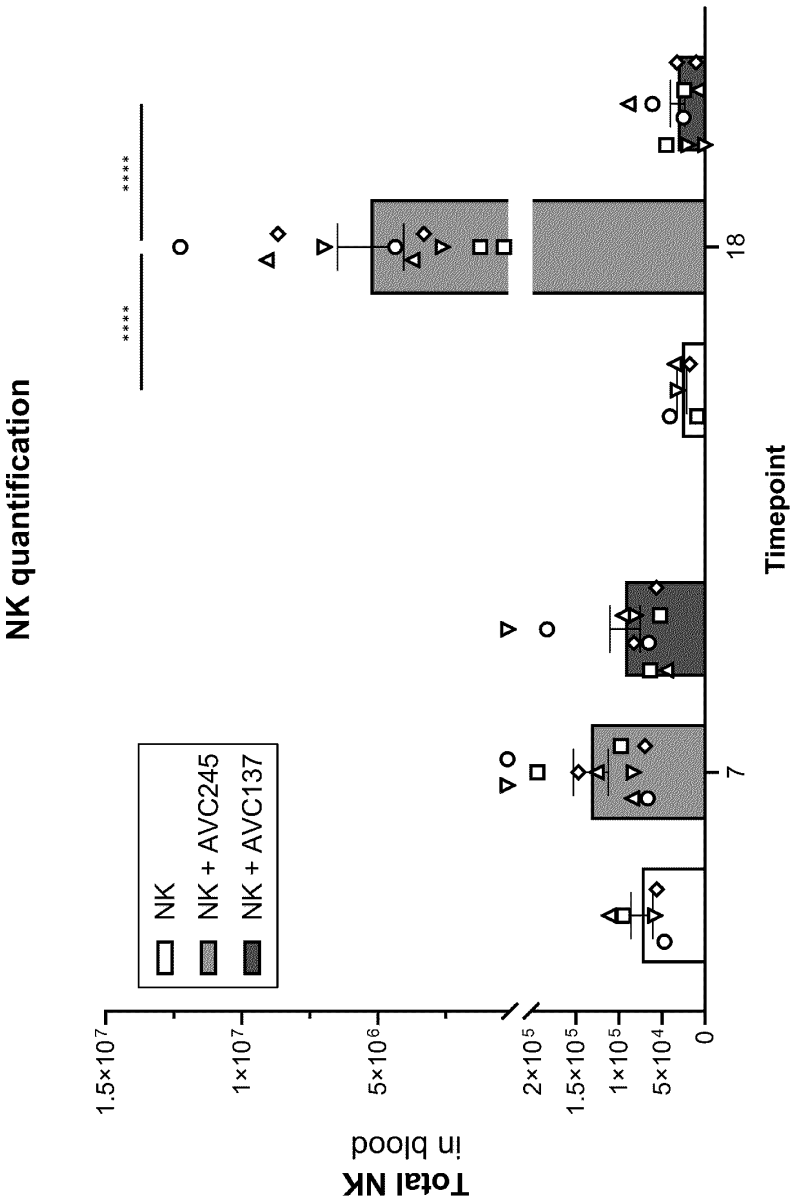

Tumor only
NK
NK + AVC245
NK + AVC137
Tumor burden
[Total flux - p/s]
10^{11}
10^{10}
0
5
10
15
20
25
Timepoint (days)

Fig. 18


NK quantification
Total NK in blood
1.5×10^7
1×10^7
5×10^6
2×10^5
1.5×10^5
1×10^5
5×10^4
0
NK
NK + AVC245
NK + AVC137
****
****
7
18
Timepoint