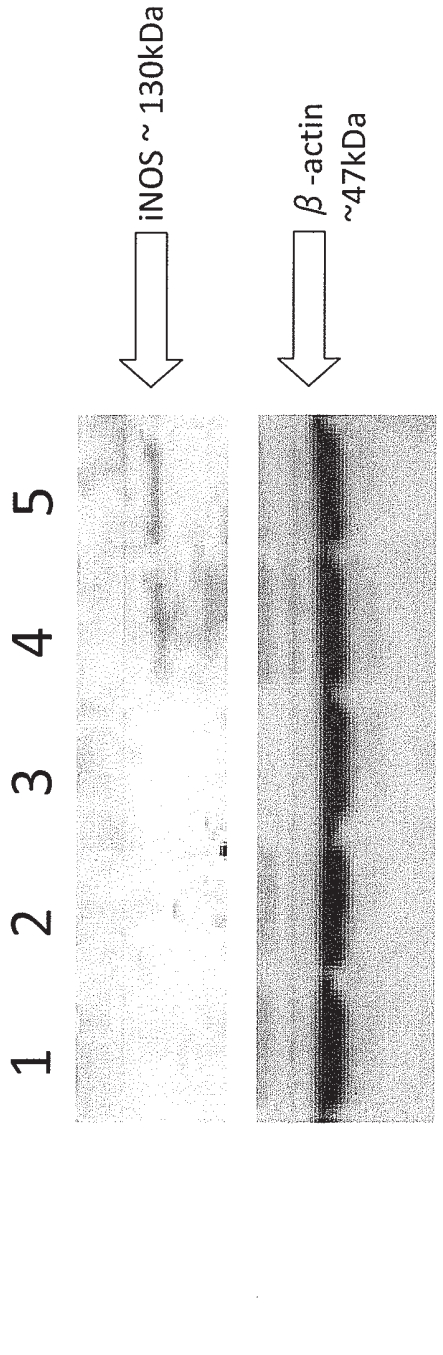


Fig. 1

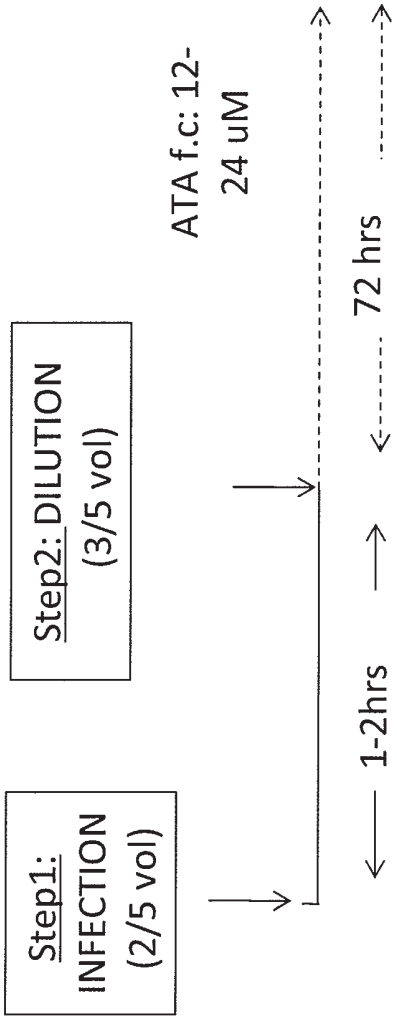

Step1: INFECTION (2/5 vol)
Step2: DILUTION (3/5 vol)
ATA f.c: 12-24 uM
1-2hrs
72 hrs

Fig. 2A

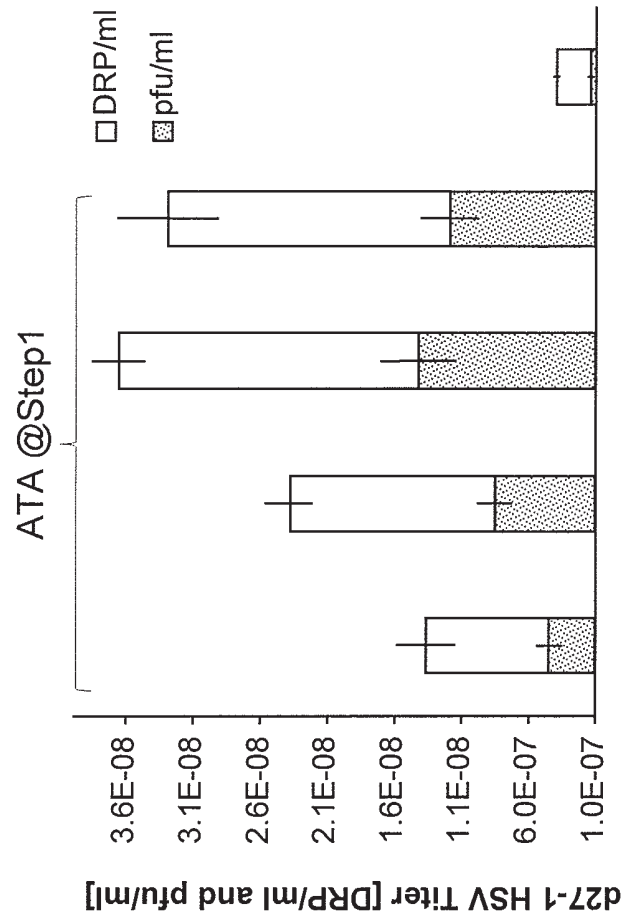
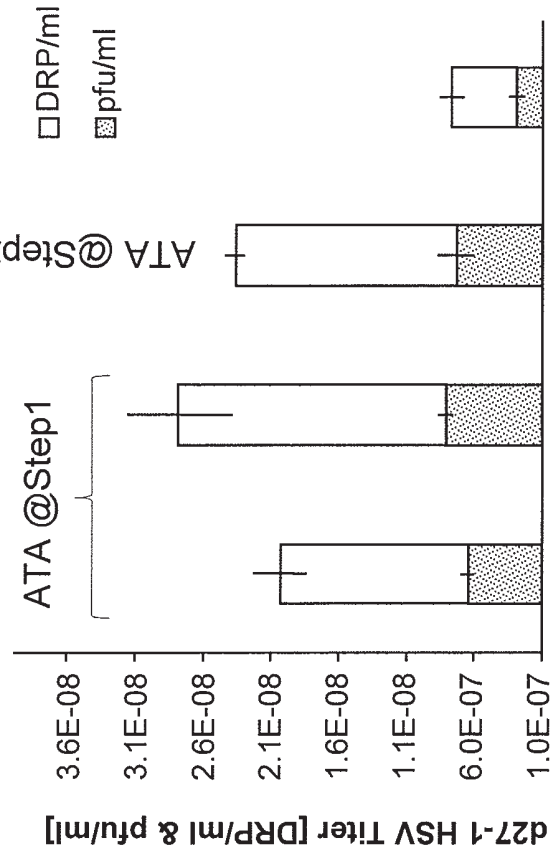

ATA @Step1
DRP/ml
pfu/ml
3.6E-08
3.1E-08
2.6E-08
2.1E-08
1.6E-08
1.1E-08
6.0E-07
1.0E-07
d27-1 HSV Titer [DRP/ml and pfu/ml]
ATA @Step1 [μM]: 30 40 50 60 0
ATA f.c [μM]: 12 16 20 24 0

Fig. 2B



ATA @Step1 [μ M]:	30	**50**	0	0
ATA f.c [μ M]:	12	**20**	20	0

Fig. 2C

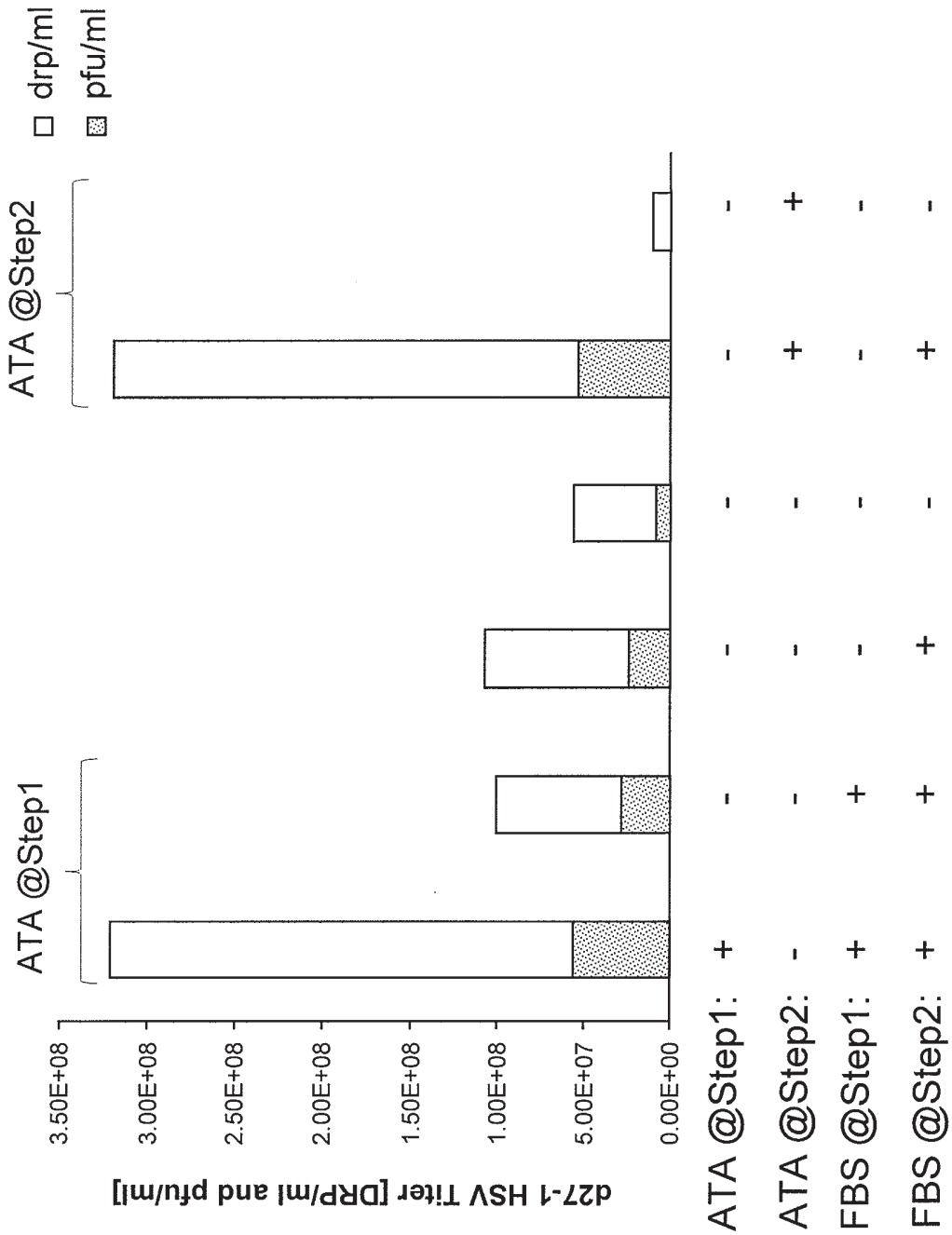

drp/ml
pfu/ml
ATA @Step1
ATA @Step2
d27-1 HSV Titer [DRP/ml and pfu/ml]
3.50E+08
3.00E+08
2.50E+08
2.00E+08
1.50E+08
1.00E+08
5.00E+07
0.00E+00
ATA @Step1: + - - - -
ATA @Step2: - - - + +
FBS @Step1: + + - - -
FBS @Step2: + + + - -

Fig. 3

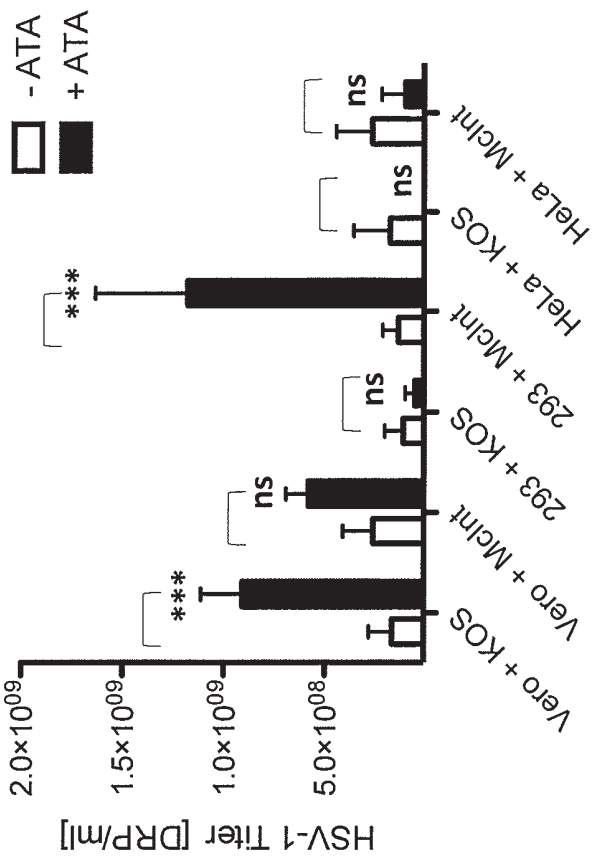
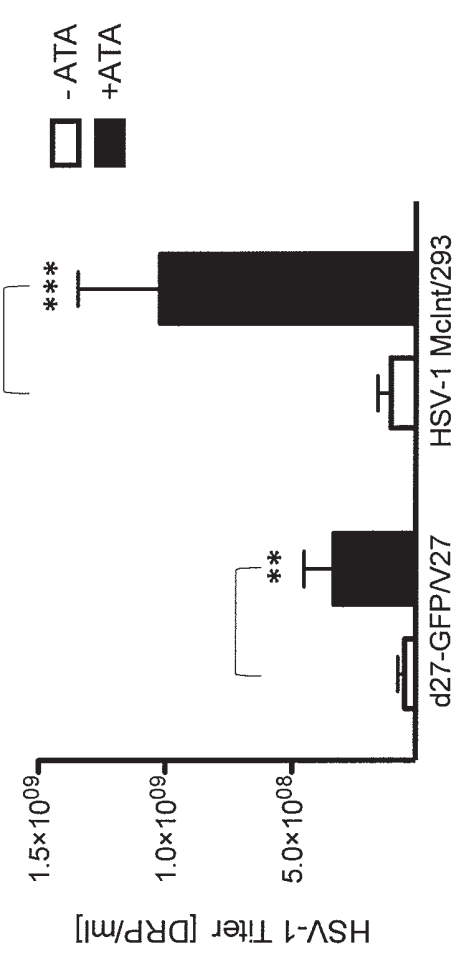

HSV-1 Titer [DRP/ml]
2.0×10^09
1.5×10^09
1.0×10^09
5.0×10^08
- ATA
+ ATA
***
***
ns
ns
ns
Vero + KOS
Vero + McInt
293 + KOS
293 + McInt
HeLa + KOS
HeLa + McInt

Fig. 4A



HSV-1 vector /cells	Control: - ATA [DRP/ml]	+ATA [DRP/ml]	Ratio
d27-GFP/V27 cells	$(5.4 \pm 2.7) \times 10^7$	$^{**}(3.3 \pm 1.2) \times 10^8$	6.1 x
wtHSV-1 McIntyre/293 cells	$(1.1 \pm 0.5) \times 10^8$	$^{***}(1.0 \pm 0.3) \times 10^9$	9.1 x

Fig. 4B

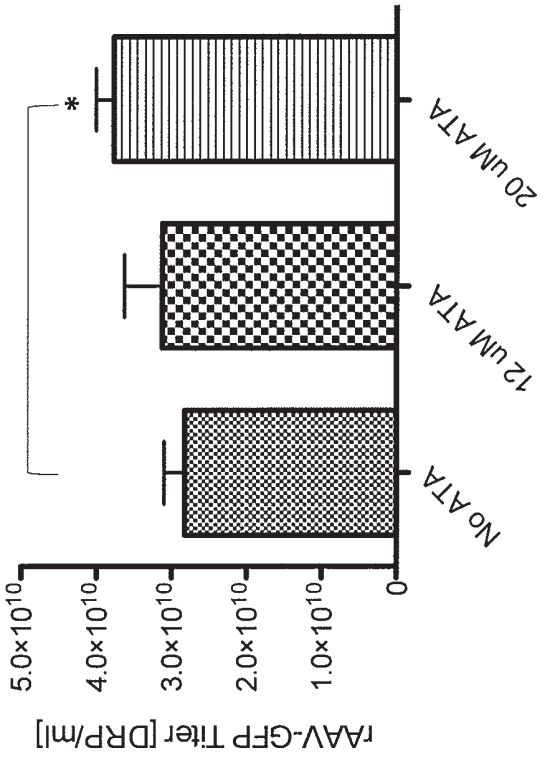
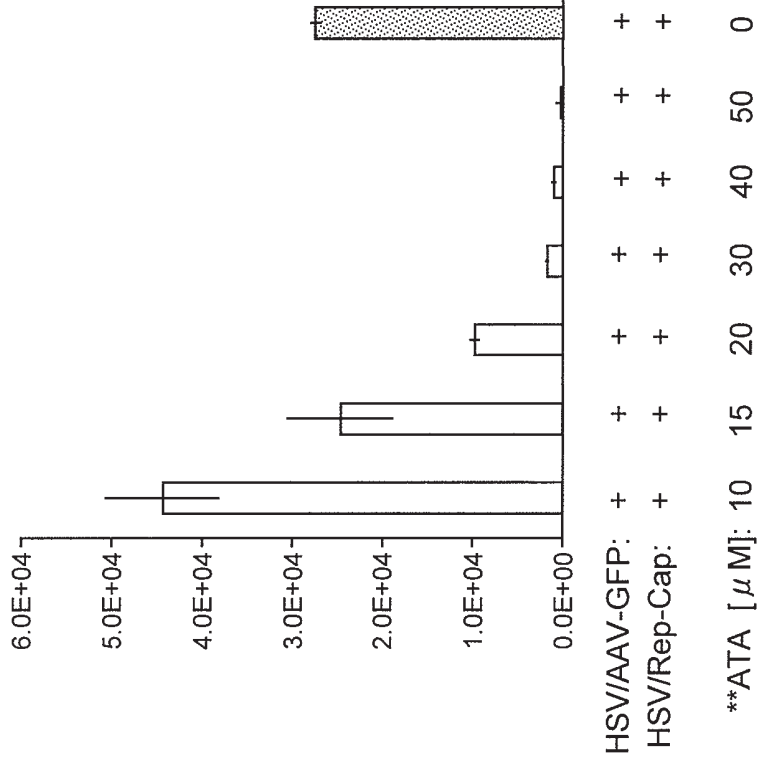

rAAV-GFP Titer [DRP/ml]
5.0×10^10
4.0×10^10
3.0×10^10
2.0×10^10
1.0×10^10
0
No ATA
12 uM ATA
20 uM ATA
*

Fig. 5A



**ATA: ATA concentration in 293 cells during to 2 hrs HSV co-infection

Fig. 5B

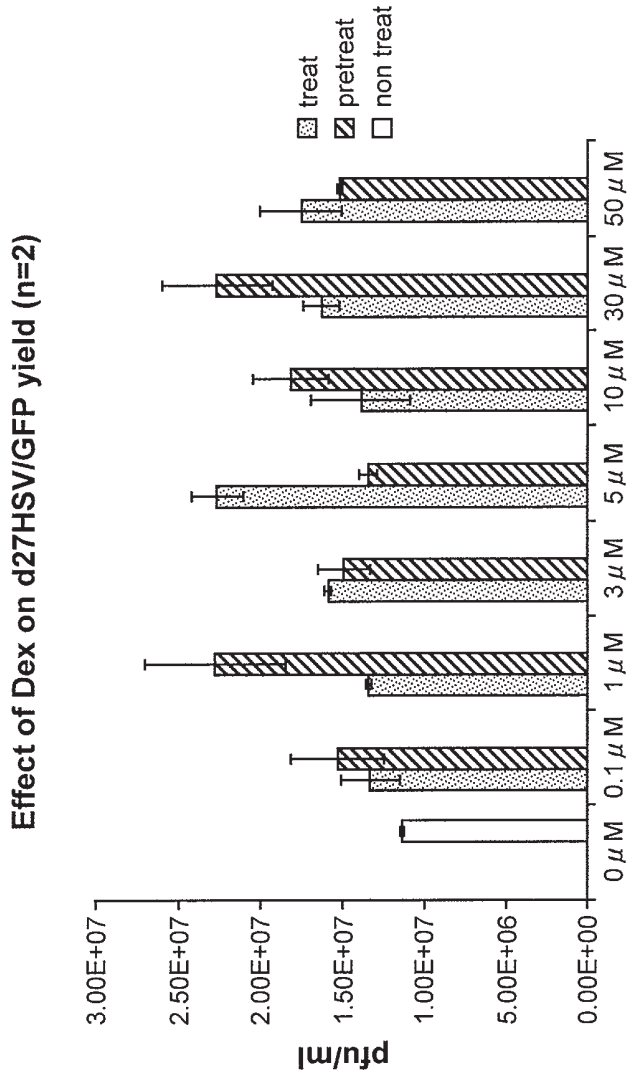

Effect of Dex on d27HSV/GFP yield (n=2)
pfu/ml
3.00E+07
2.50E+07
2.00E+07
1.50E+07
1.00E+07
5.00E+06
0.00E+00
0 μM
0.1 μM
1 μM
3 μM
5 μM
10 μM
30 μM
50 μM
treat
pretreat
non treat

Fig. 6

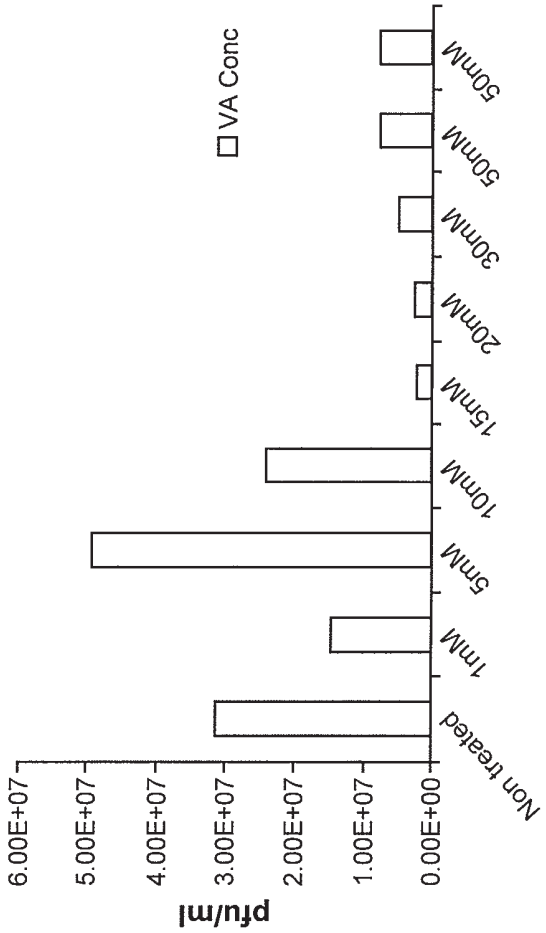

VA Conc
pfu/ml
6.00E+07
5.00E+07
4.00E+07
3.00E+07
2.00E+07
1.00E+07
0.00E+00
Non treated
1mM
5mM
10mM
15mM
20mM
30mM
50mM
50mM
50mM

Fig. 7