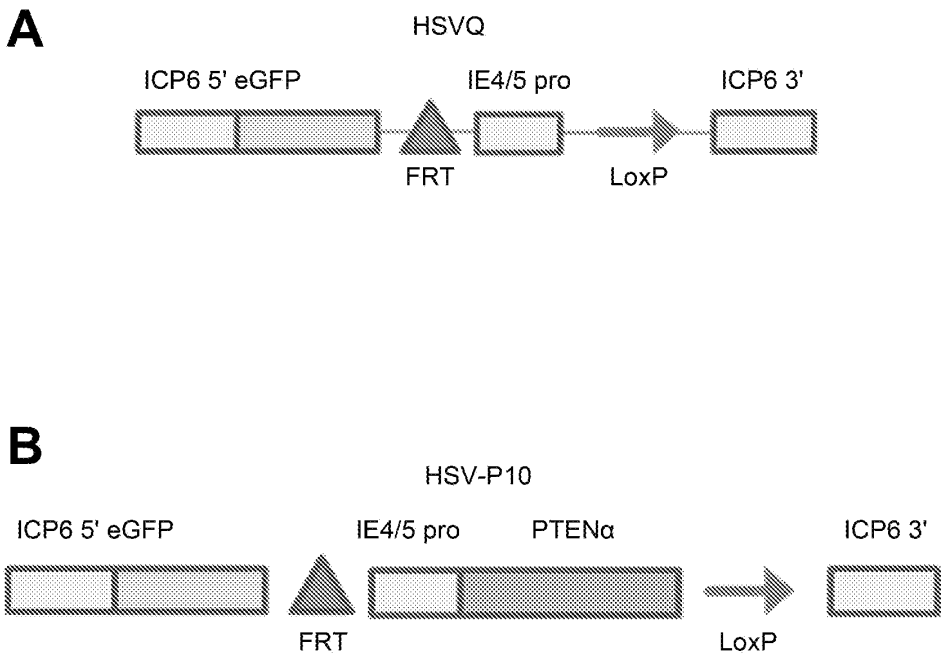
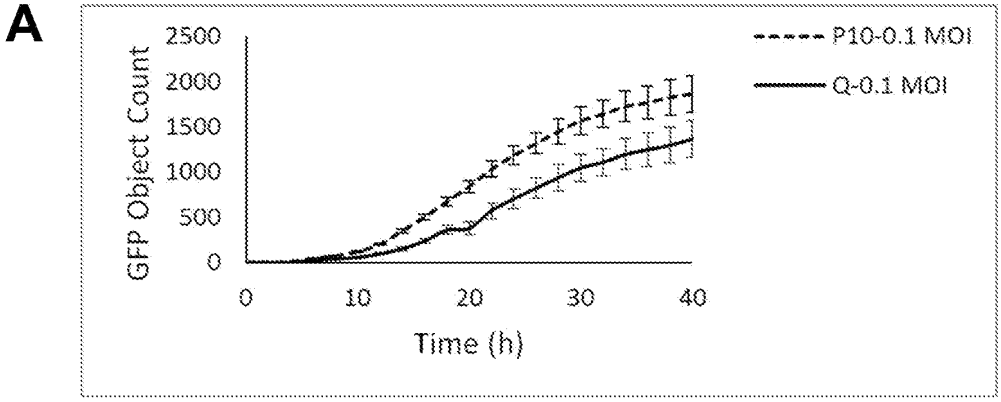

A
HSVQ
ICP6 5' eGFP
IE4/5 pro
ICP6 3'
FRT
LoxP
B
HSV-P10
ICP6 5' eGFP
IE4/5 pro
PTENα
ICP6 3'
FRT
LoxP

FIG. 1


A
GFP Object Count
2500
2000
1500
1000
500
0
0
10
20
30
40
Time (h)
P10-0.1 MOI
Q-0.1 MOI

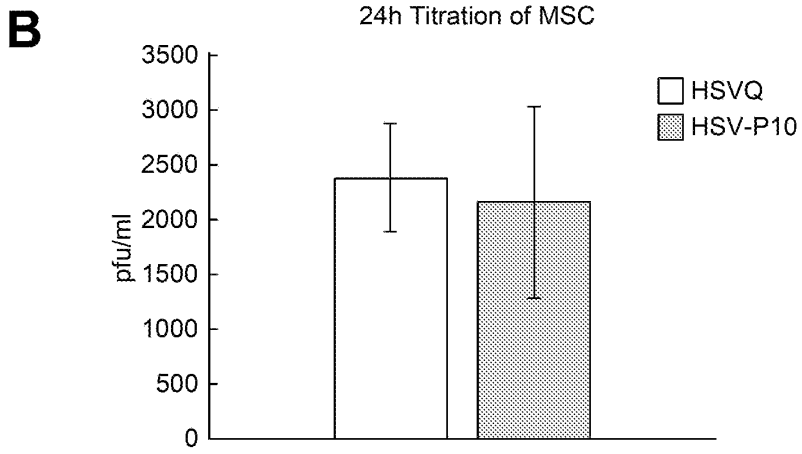

B
24h Titration of MSC
pfu/ml
3500
3000
2500
2000
1500
1000
500
0
HSVQ
HSV-P10

FIG. 2

A

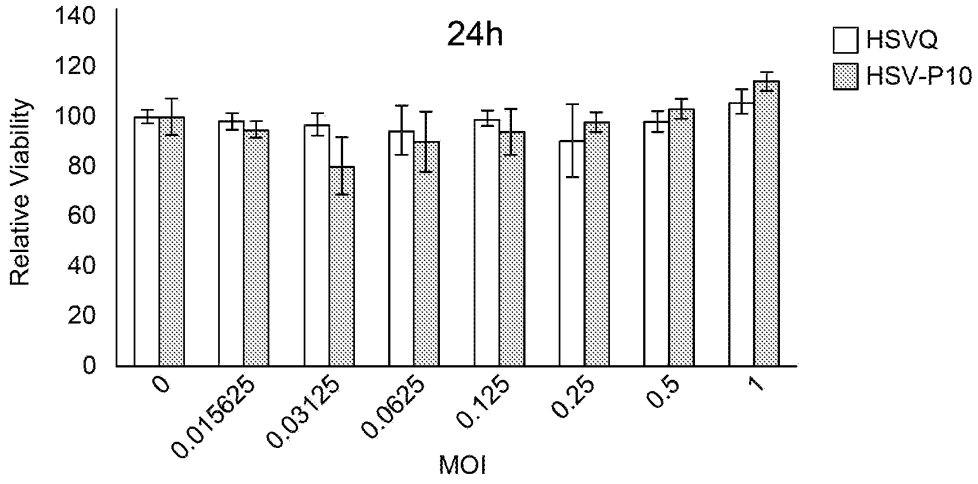

24h
HSVQ
HSV-P10
Relative Viability
140
120
100
80
60
40
20
0
0
0.015625
0.03125
0.0625
0.125
0.25
0.5
1
MOI

FIG. 3

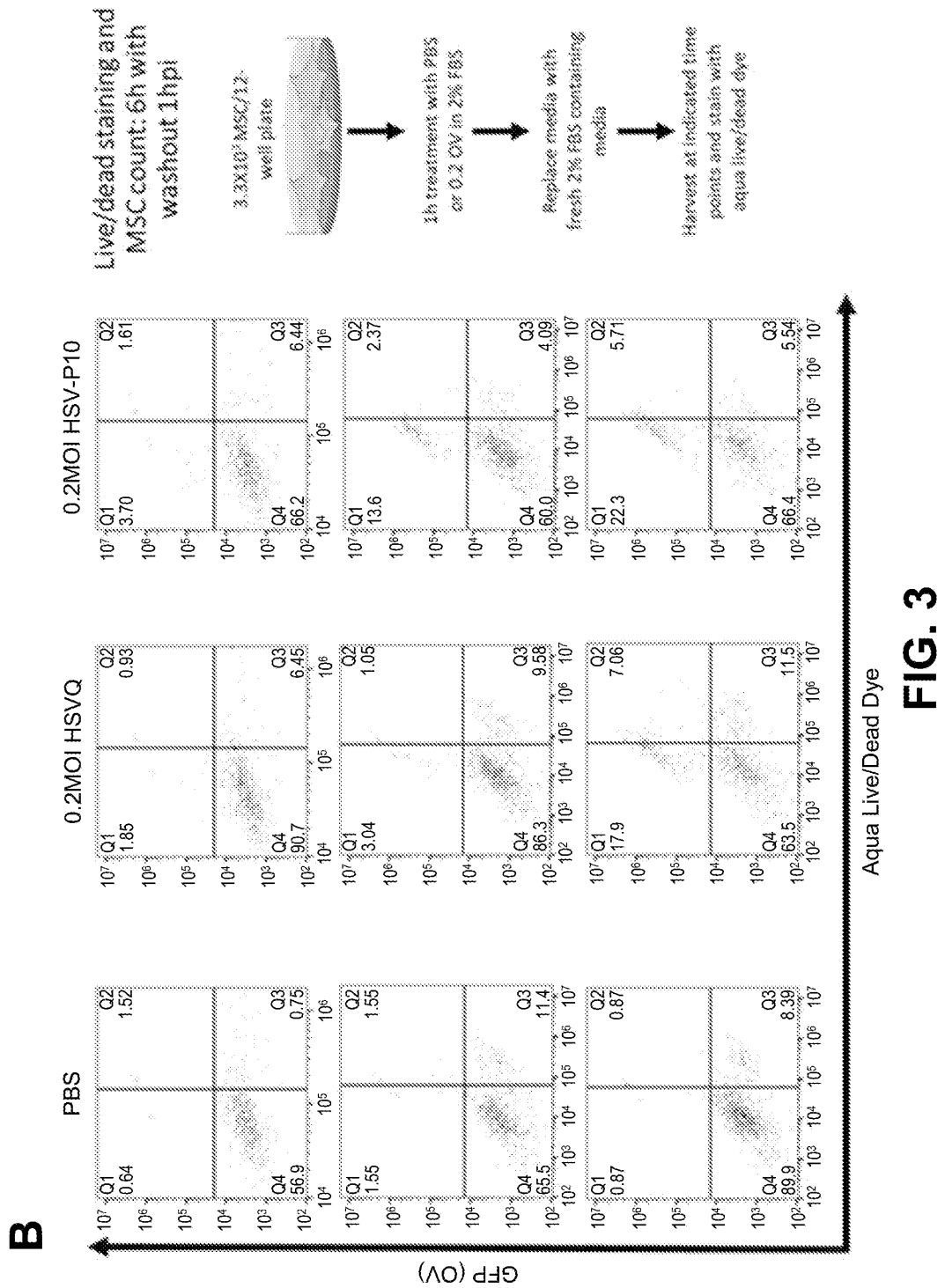

B
PBS
0.2MOI HSVQ
0.2MOI HSV-P10
GFP (OV)
Aqua Live/Dead Dye
Live/dead staining and MSC count. 6h with washout 1hpi
3.3X10³ MSC/12-well plate
1h treatment with PBS or 0.2 OV in 2% FBS
Replace media with fresh 2% FBS containing media
Harvest at indicated time points and stain with aqua live/dead dye

FIG. 3

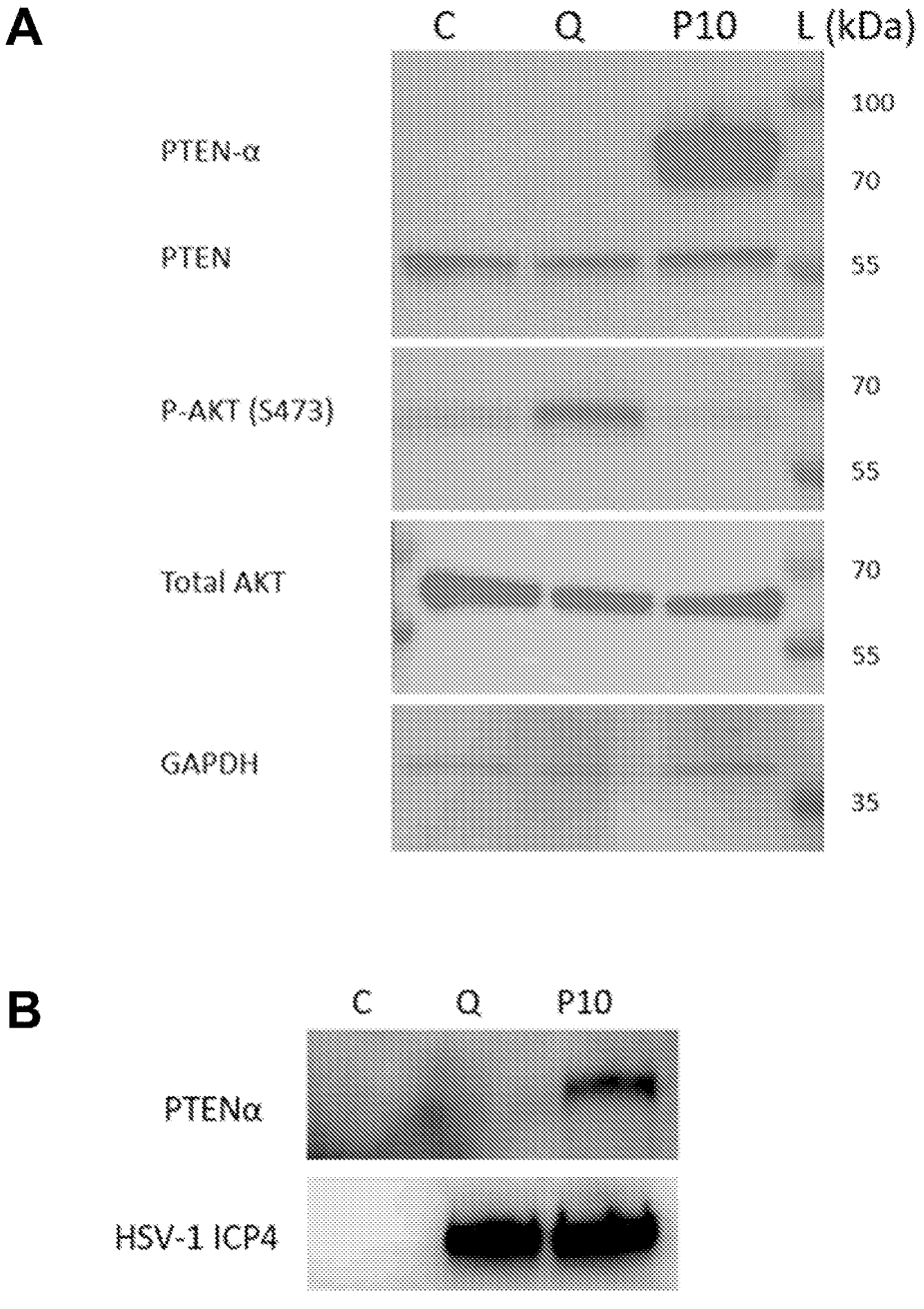

A
C
Q
P10
L (kDa)
PTEN-α
PTEN
P-AKT (S473)
Total AKT
GAPDH
100
70
55
70
55
70
55
35
B
C
Q
P10
PTENα
HSV-1 ICP4

FIG. 4

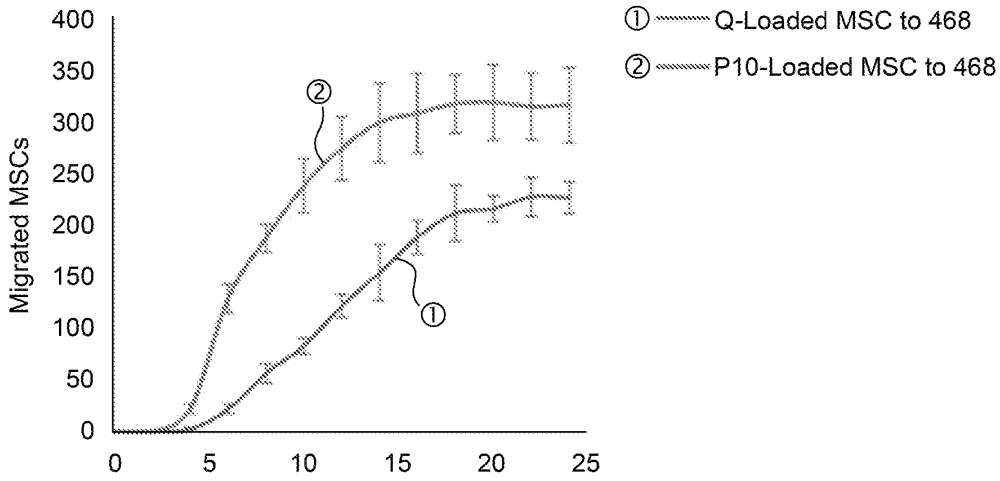
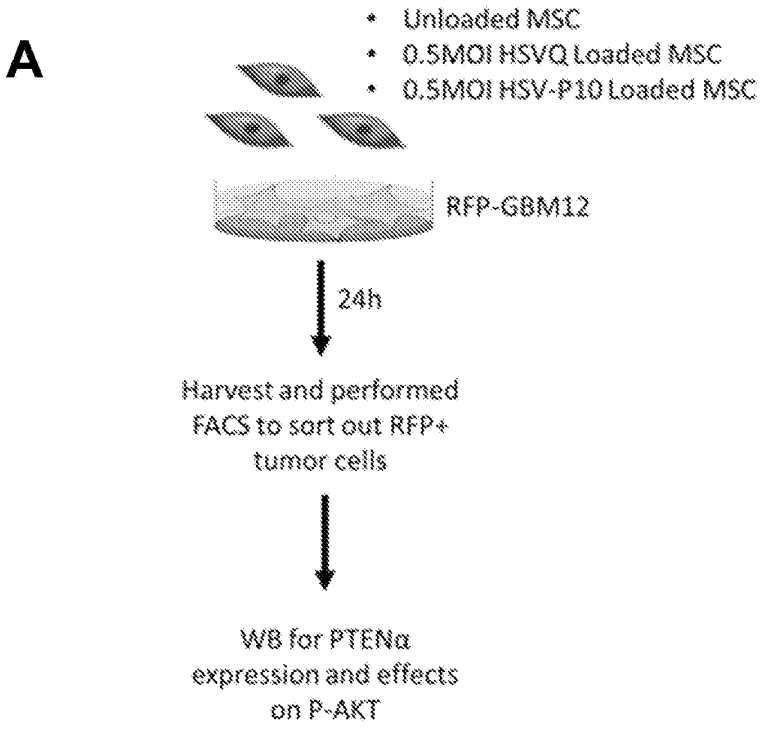

Migrated MSCs
400
350
300
250
200
150
100
50
0
0
5
10
15
20
25
① Q-Loaded MSC to 468
② P10-Loaded MSC to 468

FIG. 5


A
Unloaded MSC
0.5MOI HSVQ Loaded MSC
0.5MOI HSV-P10 Loaded MSC
RFP-GBM12
24h
Harvest and performed FACS to sort out RFP+ tumor cells
WB for PTENα expression and effects on P-AKT

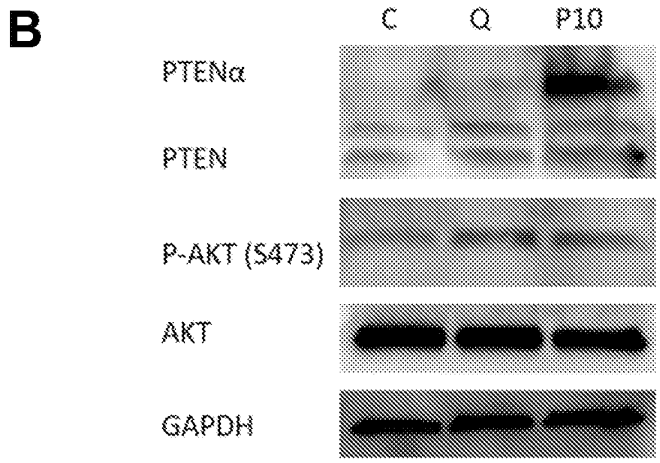

B
C
Q
P10
PTENα
PTEN
P-AKT (S473)
AKT
GAPDH

FIG. 6

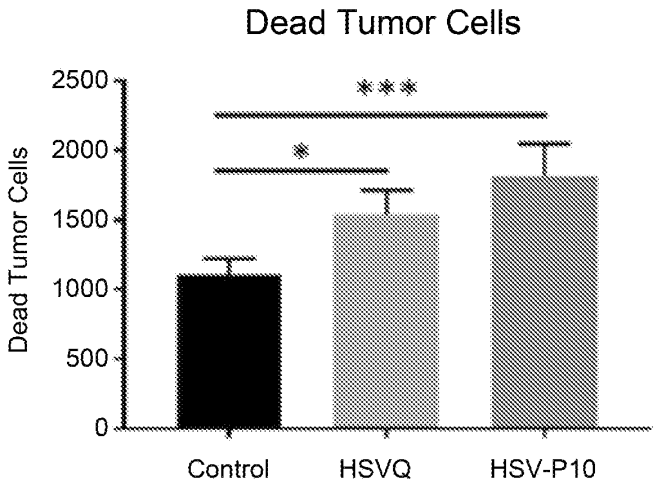

Dead Tumor Cells
Dead Tumor Cells
2500
2000
1500
1000
500
0
***
*
Control
HSVQ
HSV-P10

FIG. 7