Figure 1

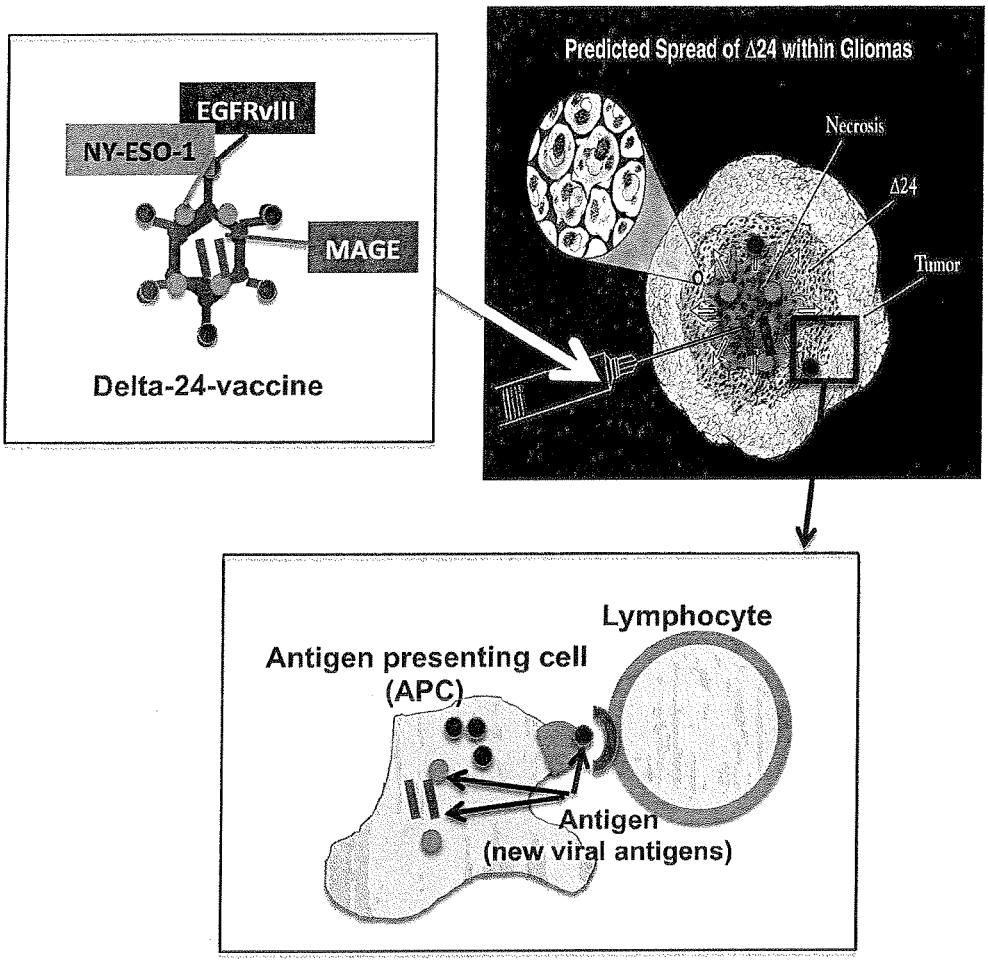

EGFRvIII
NY-ESO-1
MAGE
Delta-24-vaccine
Predicted Spread of Δ24 within Gliomas
Necrosis
Δ24
Tumor
Lymphocyte
Antigen presenting cell
(APC)
Antigen
(new viral antigens)

Figure 2

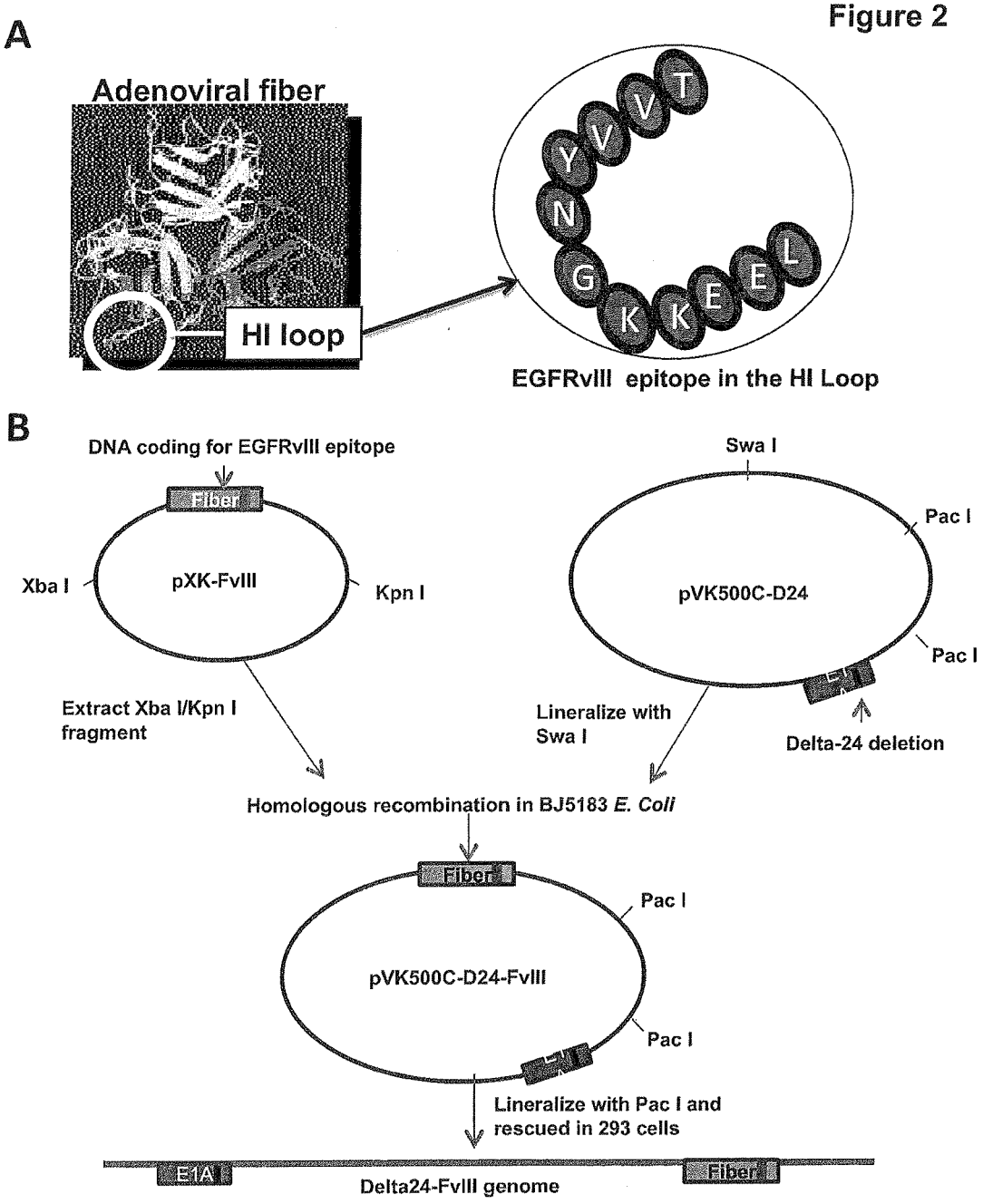

A
Adenoviral fiber
HI loop
T
V
V
Y
N
G
K
K
E
E
L
EGFRvIII epitope in the HI Loop
B
DNA coding for EGFRvIII epitope
Fiber
Xba I
pXK-FvIII
Kpn I
Extract Xba I/Kpn I fragment
Swa I
Pac I
pVK500C-D24
Pac I
E1A
Lineralize with Swa I
Delta-24 deletion
Homologous recombination in BJ5183 E. Coli
Fiber
Pac I
pVK500C-D24-FvIII
Pac I
E1A
Lineralize with Pac I and rescued in 293 cells
E1A
Fiber
Delta24-FvIII genome

Figure 3

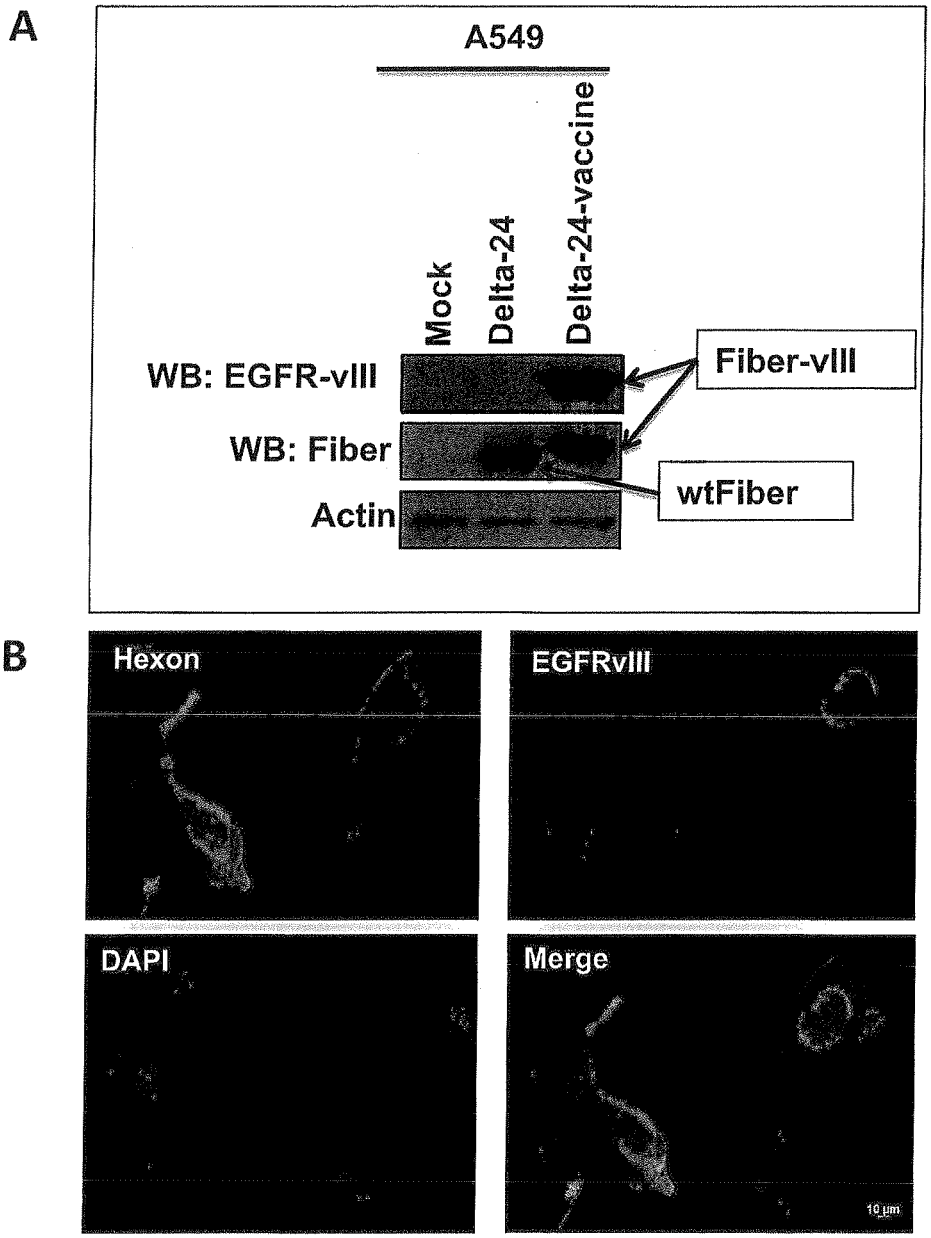

A
A549
Mock
Delta-24
Delta-24-vaccine
WB: EGFR-vIII
WB: Fiber
Actin
Fiber-vIII
wtFiber
B
Hexon
EGFRvIII
DAPI
Merge
10 µm

Figure 4

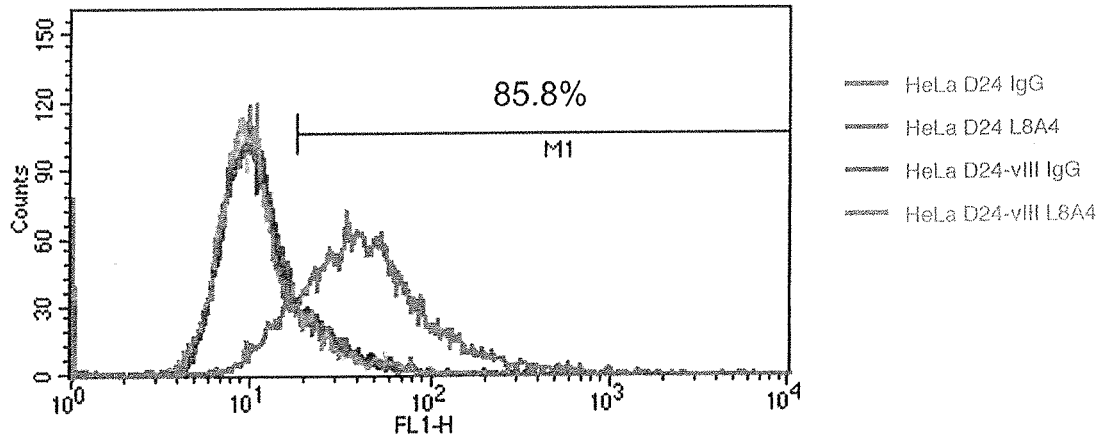

85.8%
M1
Counts
0
30
60
90
120
150
10^0
10^1
10^2
10^3
10^4
FL1-H
HeLa D24 IgG
HeLa D24 L8A4
HeLa D24-vIII IgG
HeLa D24-vIII L8A4

Figure 5

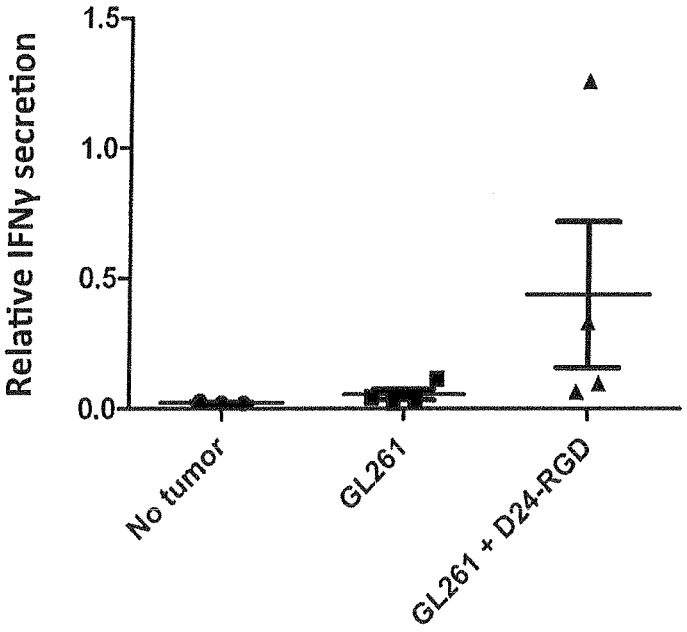
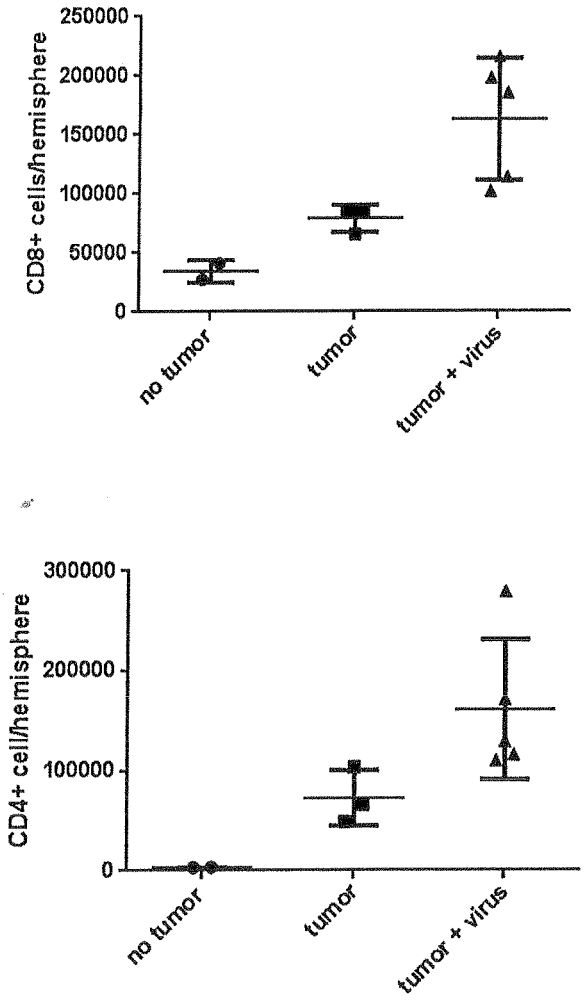

Relative IFNγ secretion
1.5
1.0
0.5
0.0
No tumor
GL261
GL261 + D24-RGD

Figure 6


CD8+ cells/hemisphere
250000
200000
150000
100000
50000
0
no tumor
tumor
tumor + virus
CD4+ cell/hemisphere
300000
200000
100000
0
no tumor
tumor
tumor + virus

SEQUENCE LISTING

<110> Board of Regents, The University of Texas System

<120> ADENOVIRUSES EXPRESSING HETEROLOGOUS TUMOR-ASSOCIATED ANTIGENS

<130> SG4873A

<140> PCT
<141> 2013-02-01

<150> US 61/594005
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<170> PatentIn version 3.5

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<300>
<301> Schrewe,H., Thompson,J., Bona,M., Hefta,L.J., Maruya,A.,
<302> Cloning of the complete gene for carcinoembryonic antigen: analysis
<303> Mol. Cell. Biol.
<304> 10
<305> 6
<306> 2738-48
<307> 1990-06-01
<308> GenBank/AAA62835
<309> 1995-03-06
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<310> 09/664,752
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<300>
<301> Chen,Y.T., Scanlan,M.J., Sahin,U., Tureci,O., Gure,A.O., Tsang,S.,
<302> A testicular antigen aberrantly expressed in human cancers detected
<303> Proc. Natl. Acad. Sci. U.S.A.
<304> 94
<305> 5
<306> 1914-8
<307> 1997-03-04
<308> GenBank/U87459
<309> 1997-01-28
<313> (157)..(170)

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<308> GenBank: AAB49693
<309> 1997-01-28
<313> (157)..(170)

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