FIGURE 1

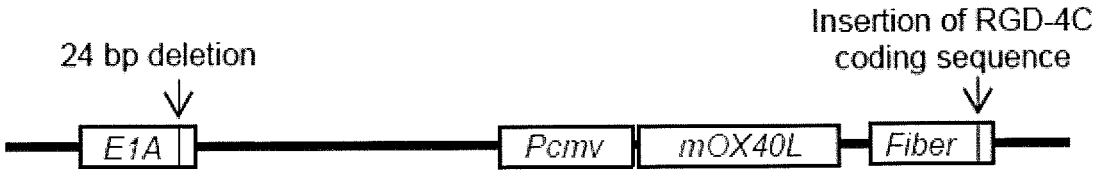

24 bp deletion
Insertion of RGD-4C coding sequence
E1A
Pcmv
mOX40L
Fiber

FIGURE 2

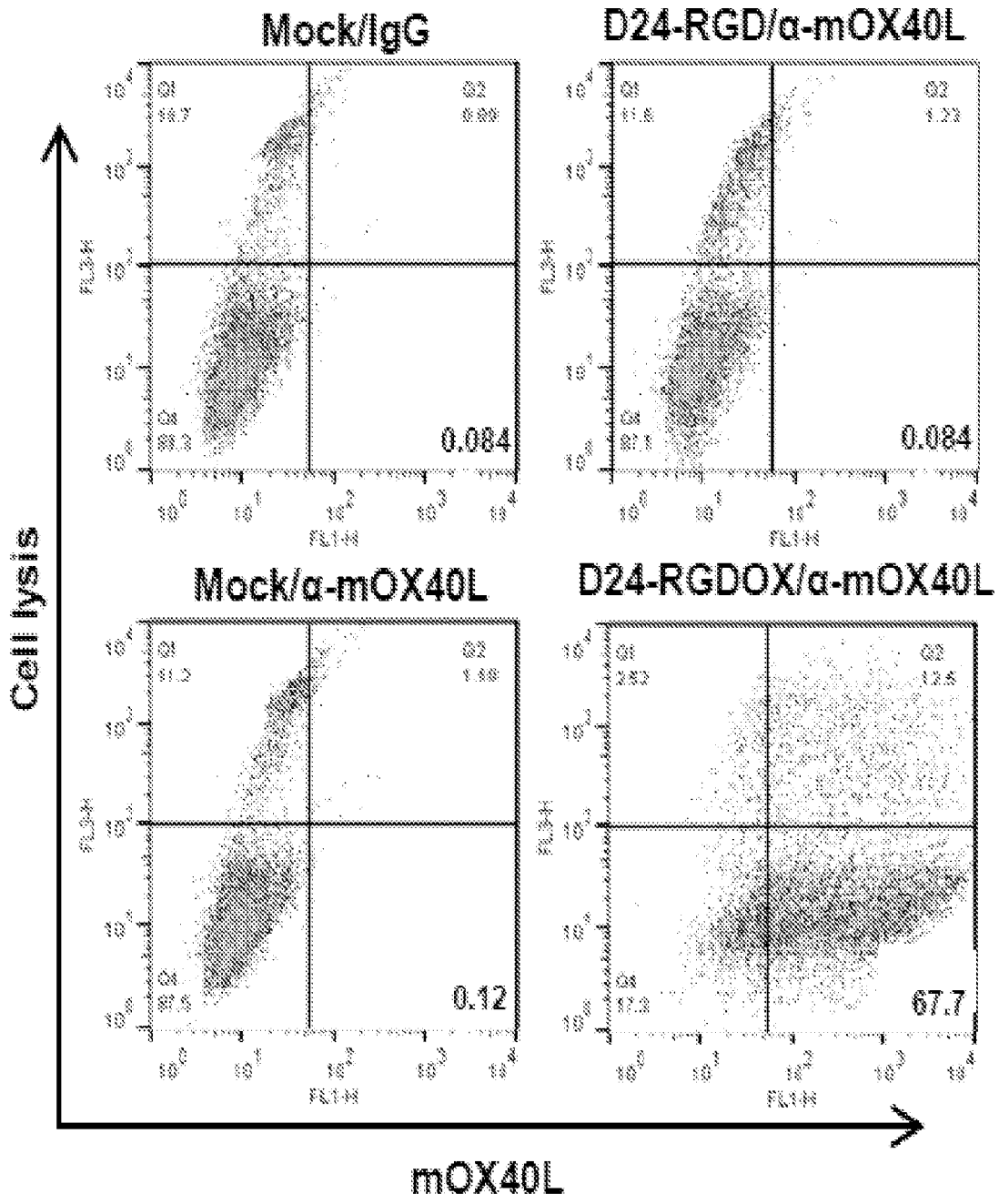

Mock/IgG
D24-RGD/α-mOX40L
Mock/α-mOX40L
D24-RGDOX/α-mOX40L
0.084
0.084
0.12
67.7
Cell lysis
mOX40L

FIGURE 3

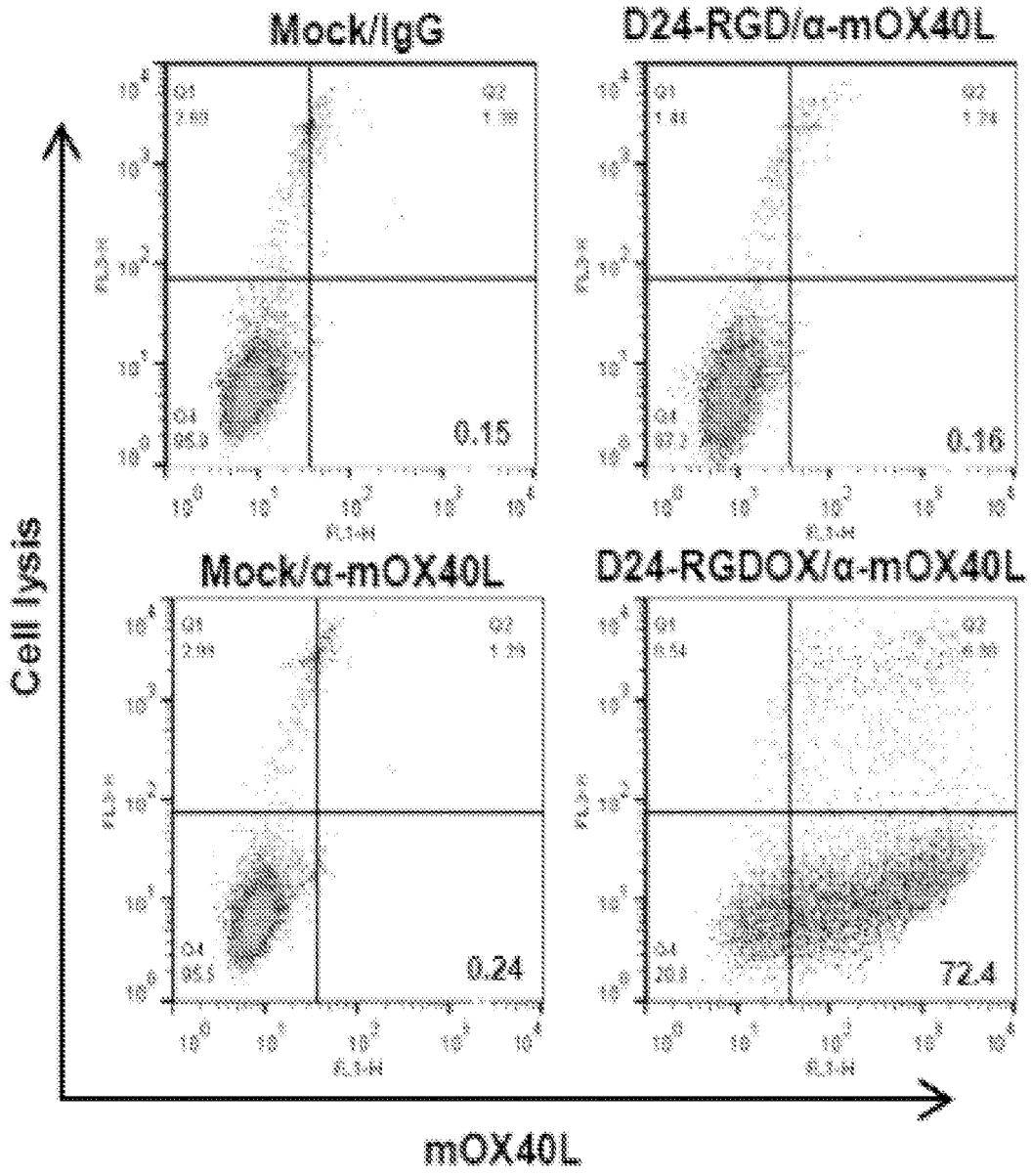

Mock/IgG
D24-RGD/α-mOX40L
Mock/α-mOX40L
D24-RGDOX/α-mOX40L
0.15
0.16
0.24
72.4
Cell lysis
mOX40L

FIGURE 4

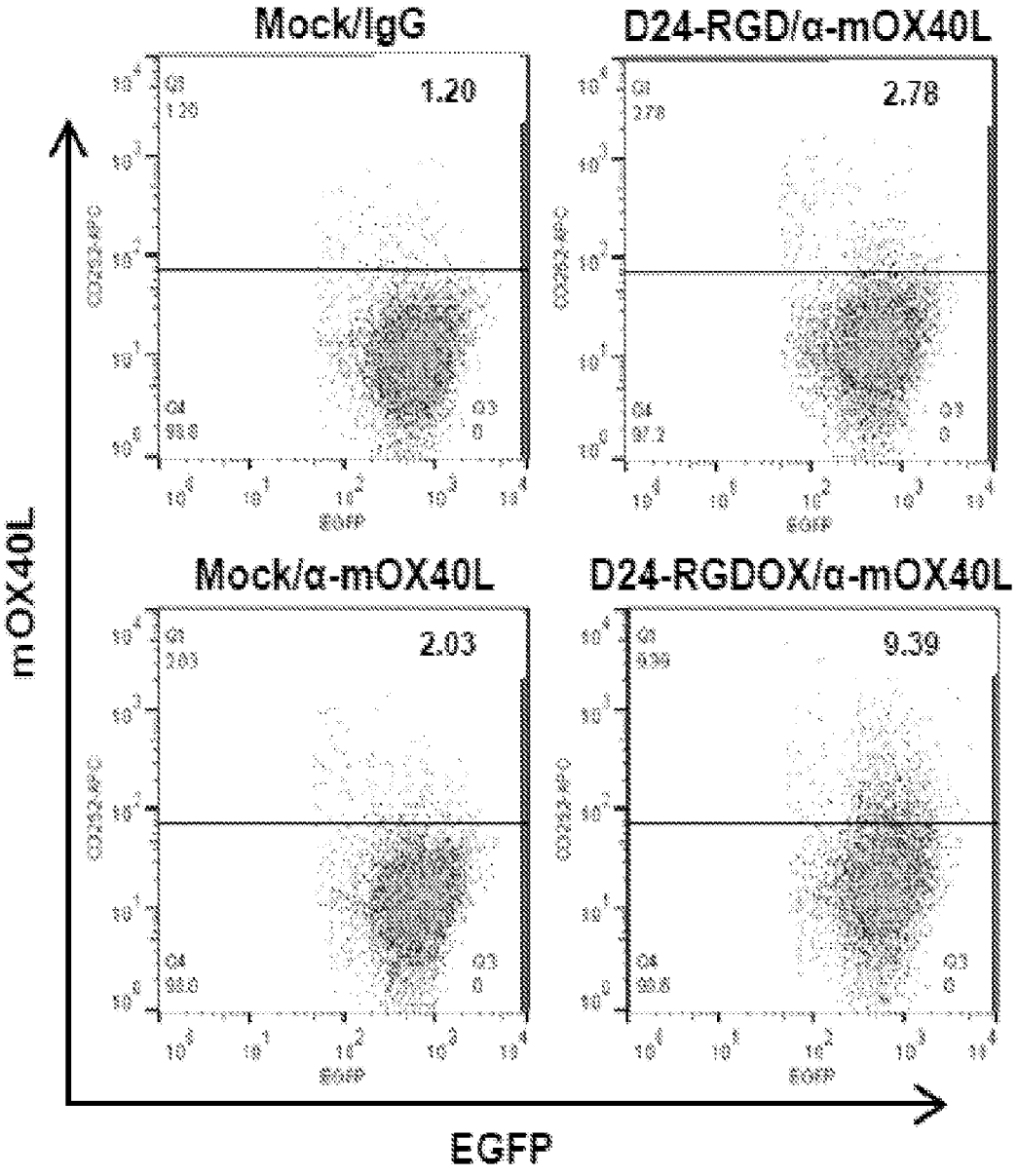

Mock/IgG
1.20
D24-RGD/α-mOX40L
2.78
Mock/α-mOX40L
2.03
D24-RGDOX/α-mOX40L
9.39
mOX40L
EGFP

FIGURE 5

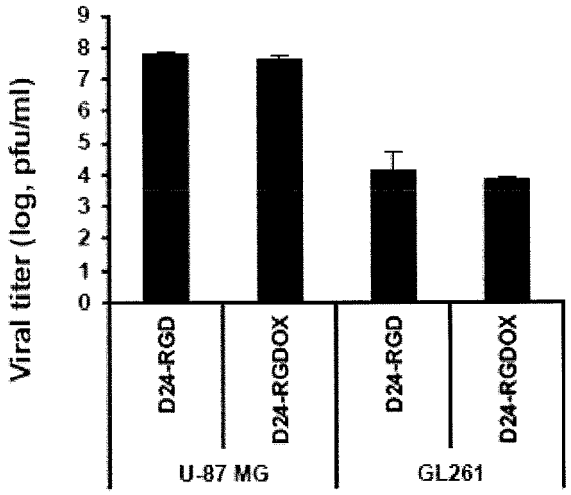
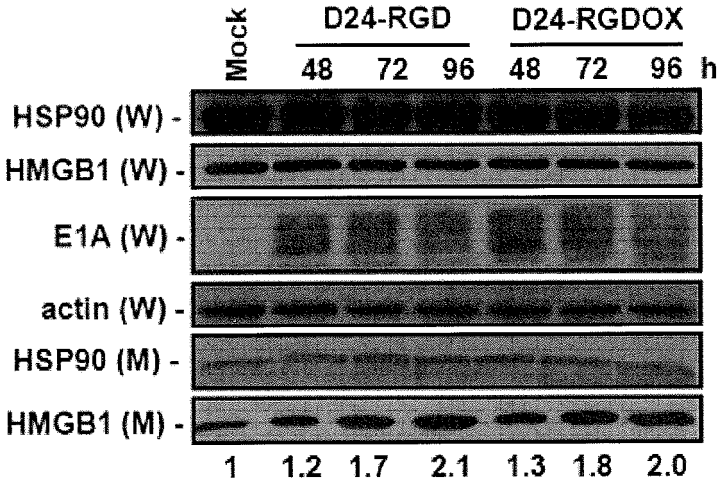
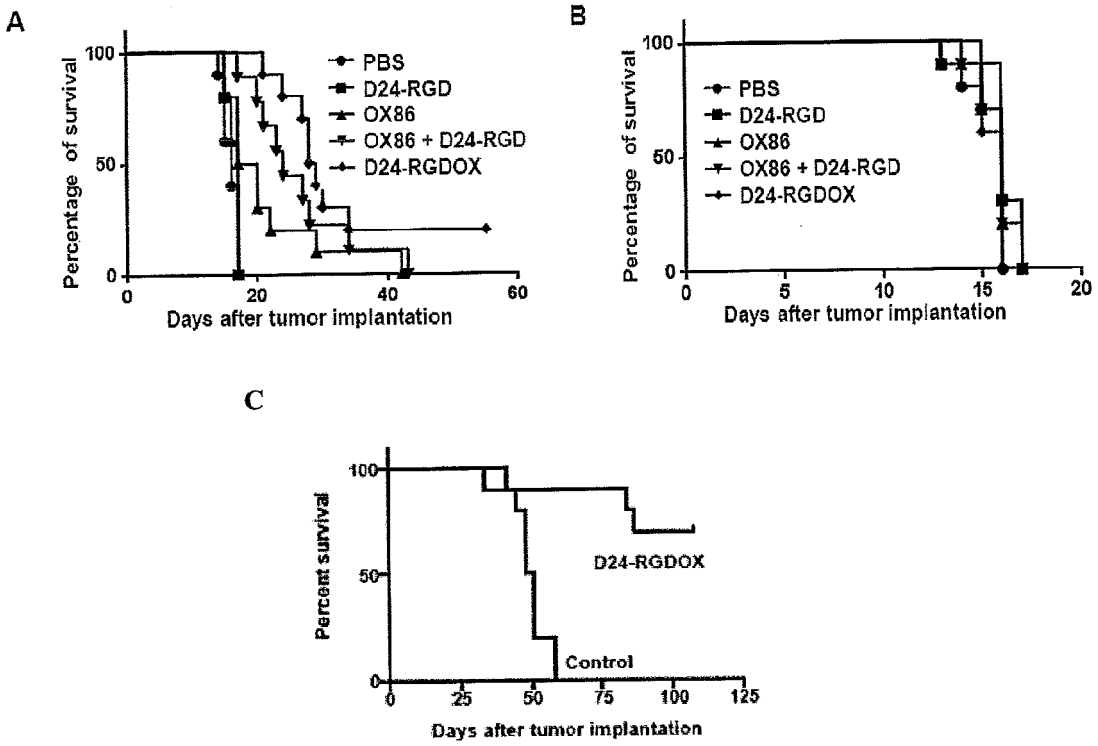

Viral titer (log, pfu/ml)
9
8
7
6
5
4
3
2
1
0
D24-RGD
D24-RGDOX
D24-RGD
D24-RGDOX
U-87 MG
GL261

FIGURE 6


Mock
D24-RGD
D24-RGDOX
48 72 96 48 72 96 h
HSP90 (W) -
HMGB1 (W) -
E1A (W) -
actin (W) -
HSP90 (M) -
HMGB1 (M) -
1 1.2 1.7 2.1 1.3 1.8 2.0

FIGURES 7A-C


A
Percentage of survival
100
50
0
0
20
40
60
Days after tumor implantation
PBS
D24-RGD
OX86
OX86 + D24-RGD
D24-RGDOX
B
Percentage of survival
100
50
0
0
5
10
15
20
Days after tumor implantation
PBS
D24-RGD
OX86
OX86 + D24-RGD
D24-RGDOX
C
Percent survival
100
50
0
0
25
50
75
100
125
Days after tumor implantation
D24-RGDOX
Control

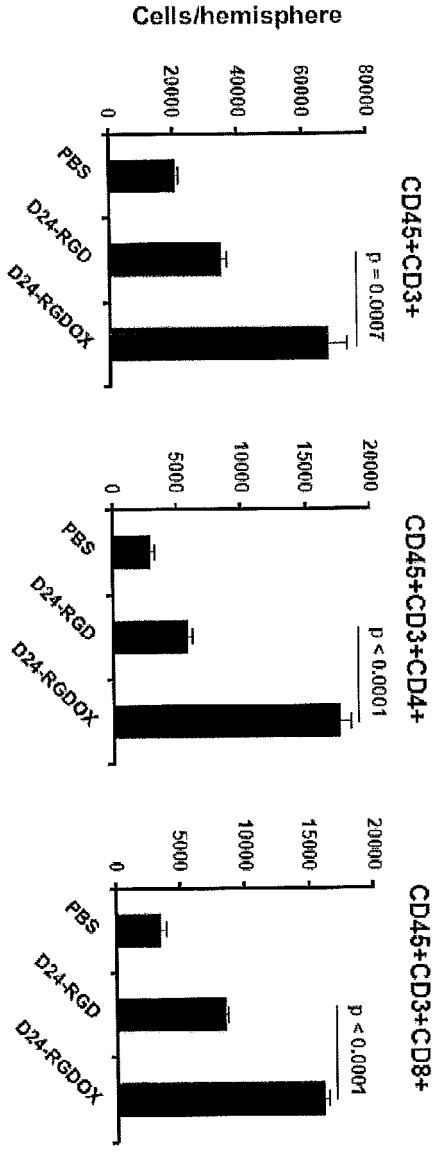

Cells/hemisphere
CD45+CD3+
CD45+CD3+CD4+
CD45+CD3+CD8+
PBS
D24-RGD
D24-RGDOX
p = 0.0007
p < 0.0001
p < 0.0001
0
20000
40000
60000
80000
5000
10000
15000

FIGURE 8

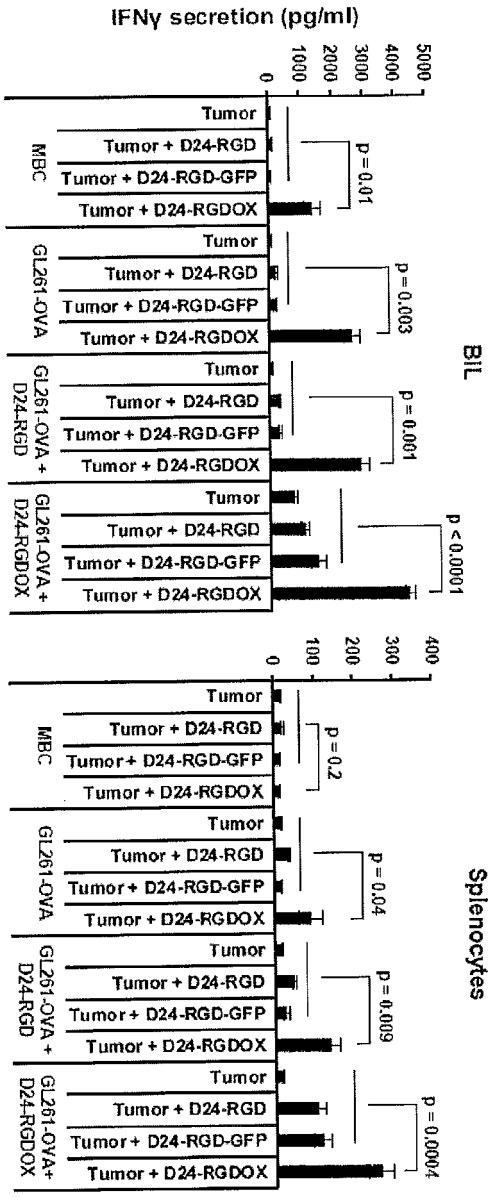
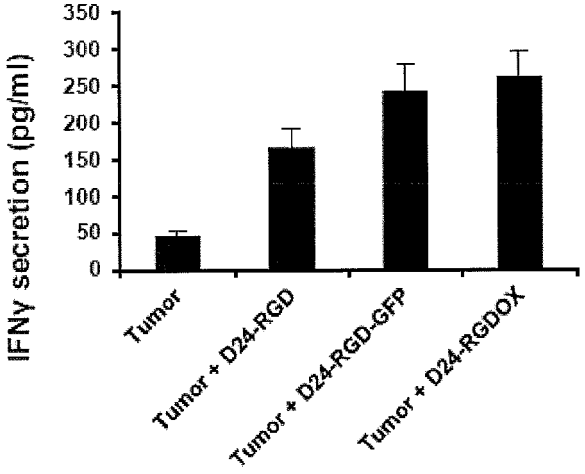

IFNγ secretion (pg/ml)
BIL
Splenocytes
MBC
GL261-OVA
GL261-OVA + D24-RGD
GL261-OVA + D24-RGDOX
Tumor
Tumor + D24-RGD
Tumor + D24-RGD-GFP
Tumor + D24-RGDOX
p = 0.01
p = 0.003
p = 0.001
p < 0.0001
p = 0.2
p = 0.04
p = 0.009
p = 0.0004

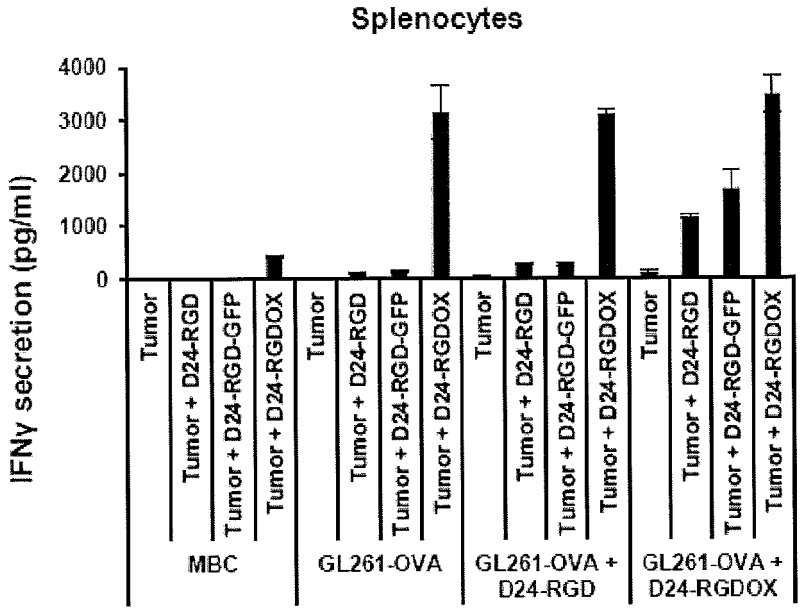
FIGURE 9

FIGURES 10A and 10B

A



B



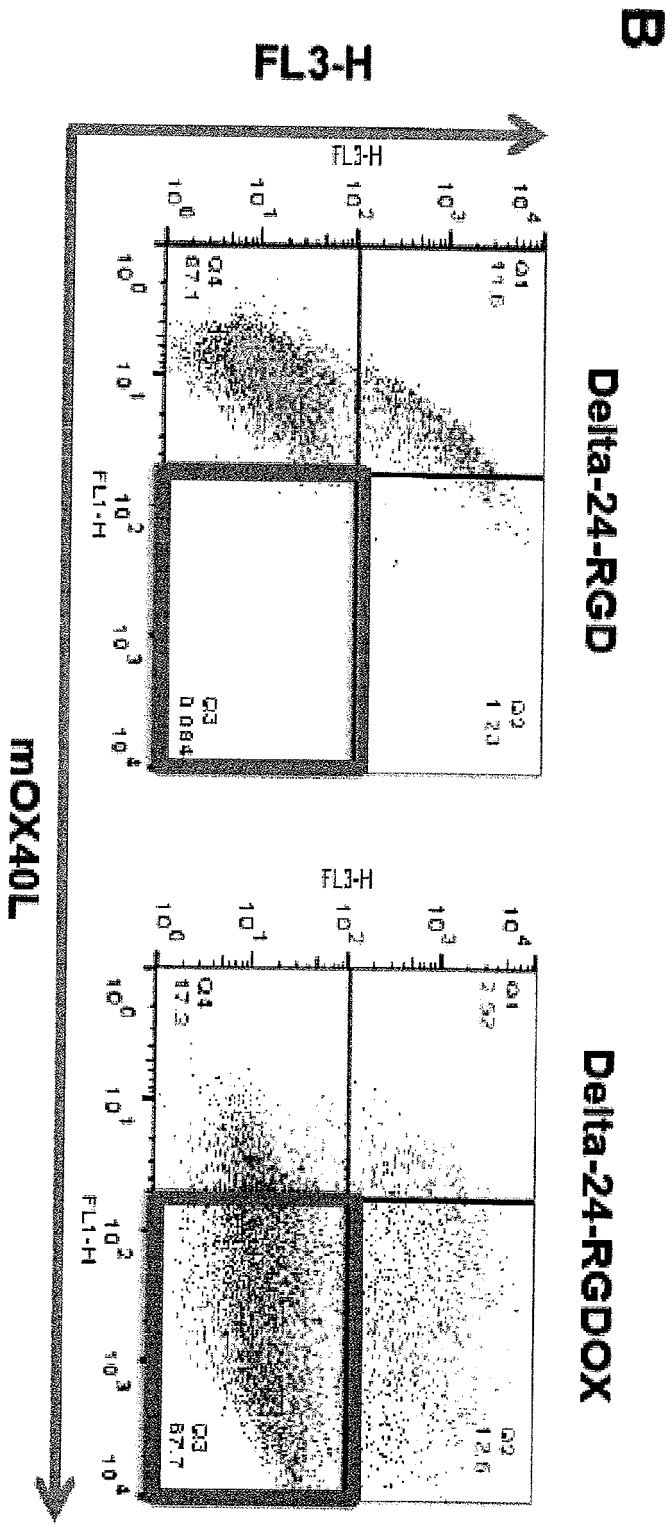

B
FL3-H
mOX40L
FL3-H
FL1-H
Q4 87.1
Q1 11.8
Q3 0.084
Q2 1.20
Delta-24-RGD
FL3-H
FL1-H
Q4 87.3
Q1 5.52
Q3 87.7
Q2 1.26
Delta-24-RGDOX

FIGURE 11

FIGURE 12

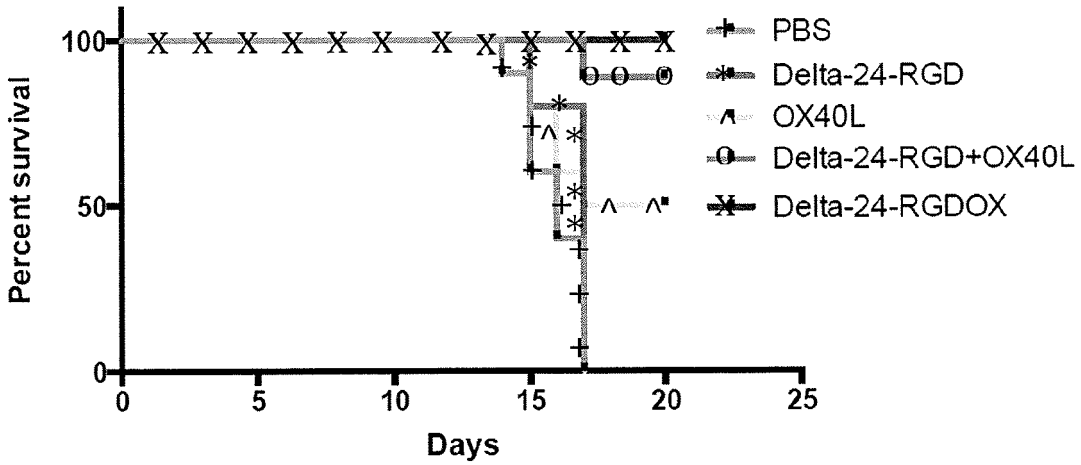
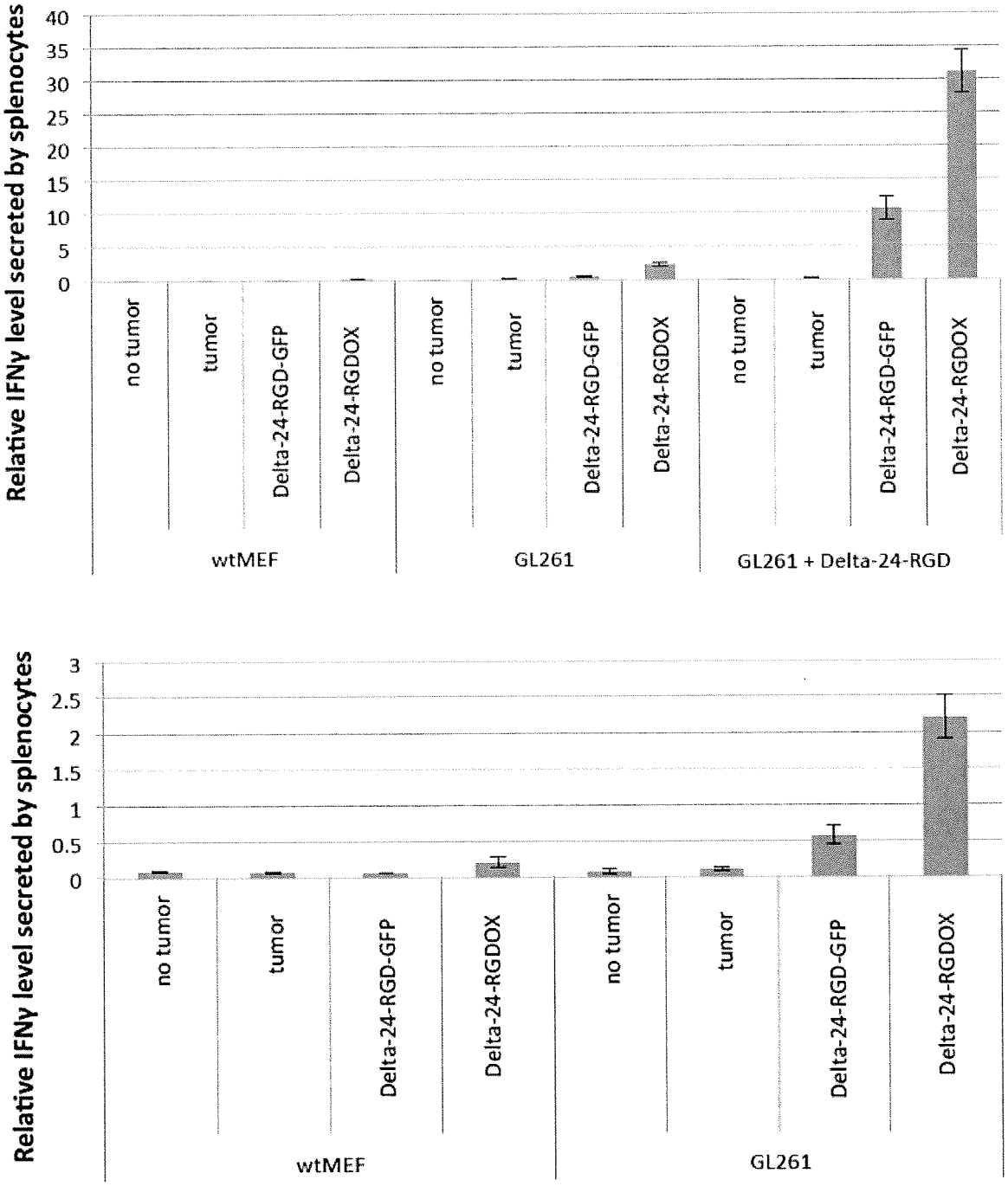

Percent survival
100
50
0
0
5
10
15
20
25
Days
PBS
Delta-24-RGD
OX40L
Delta-24-RGD+OX40L
Delta-24-RGDOX

FIGURE 13


Relative IFNγ level secreted by splenocytes
40
35
30
25
20
15
10
5
0
no tumor
tumor
Delta-24-RGD-GFP
Delta-24-RGDOX
wtMEF
GL261
GL261 + Delta-24-RGD
Relative IFNγ level secreted by splenocytes
3
2.5
2
1.5
1
0.5
0
no tumor
tumor
Delta-24-RGD-GFP
Delta-24-RGDOX
wtMEF
GL261