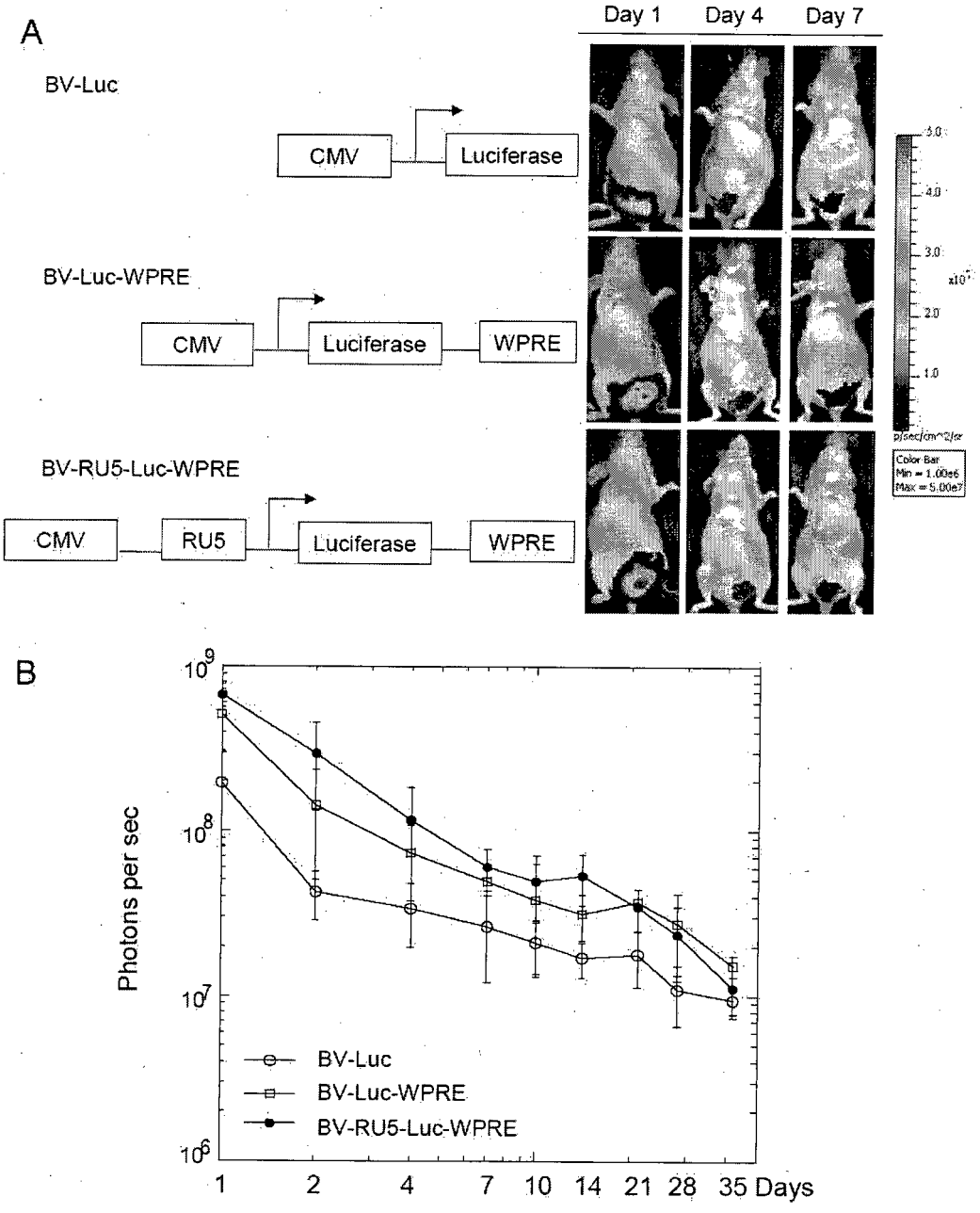

A
Day 1
Day 4
Day 7
BV-Luc
CMV
Luciferase
BV-Luc-WPRE
CMV
Luciferase
WPRE
BV-RU5-Luc-WPRE
CMV
RU5
Luciferase
WPRE
B
Photons per sec
BV-Luc
BV-Luc-WPRE
BV-RU5-Luc-WPRE
1
2
4
7
10
14
21
28
35 Days

**FIGURE 1**

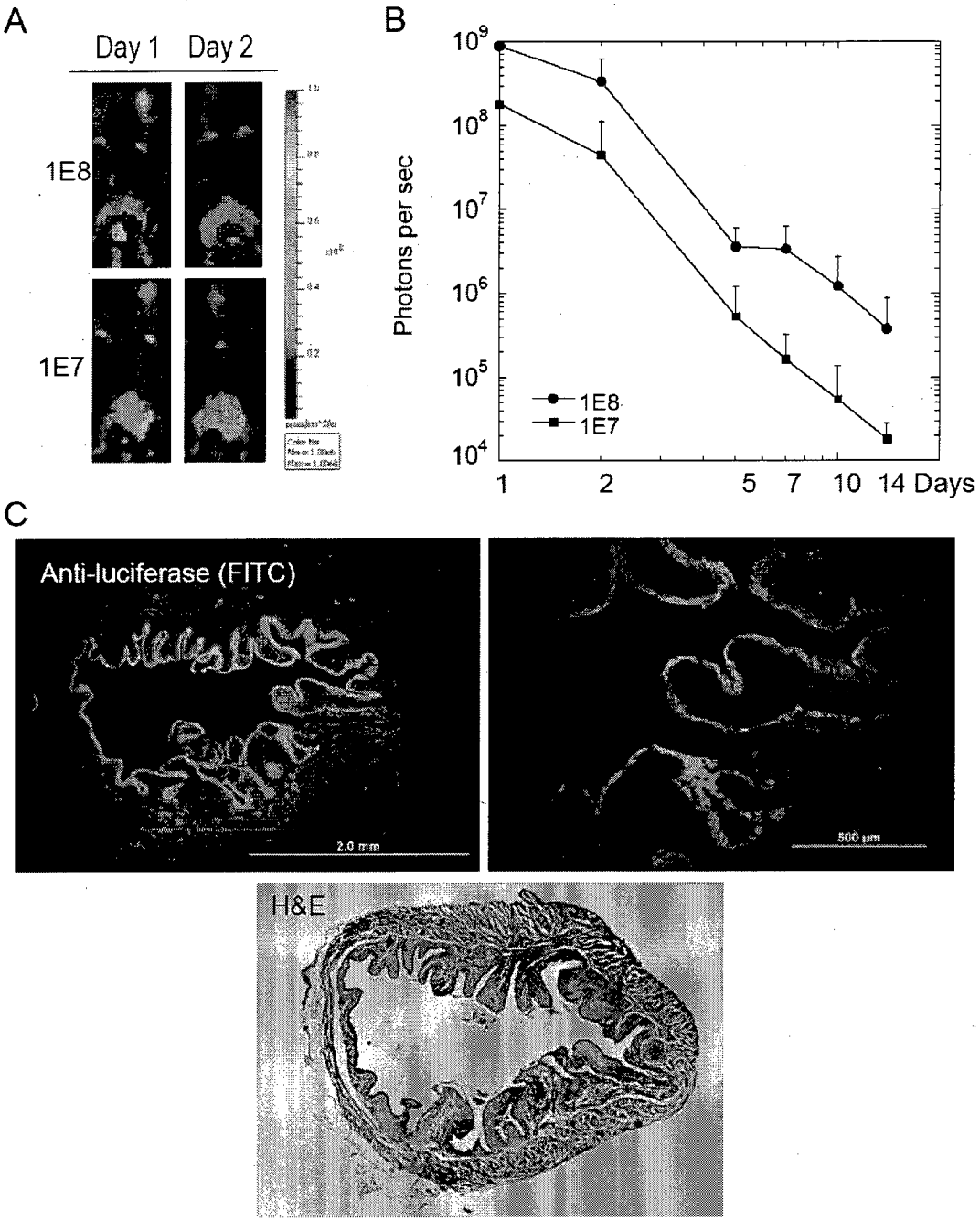

A
Day 1
Day 2
1E8
1E7
B
Photons per sec
$10^9$
$10^8$
$10^7$
$10^6$
$10^5$
$10^4$
1E8
1E7
1
2
5
7
10
14 Days
C
Anti-luciferase (FITC)
2.0 mm
500 µm
H&E

FIGURE 2

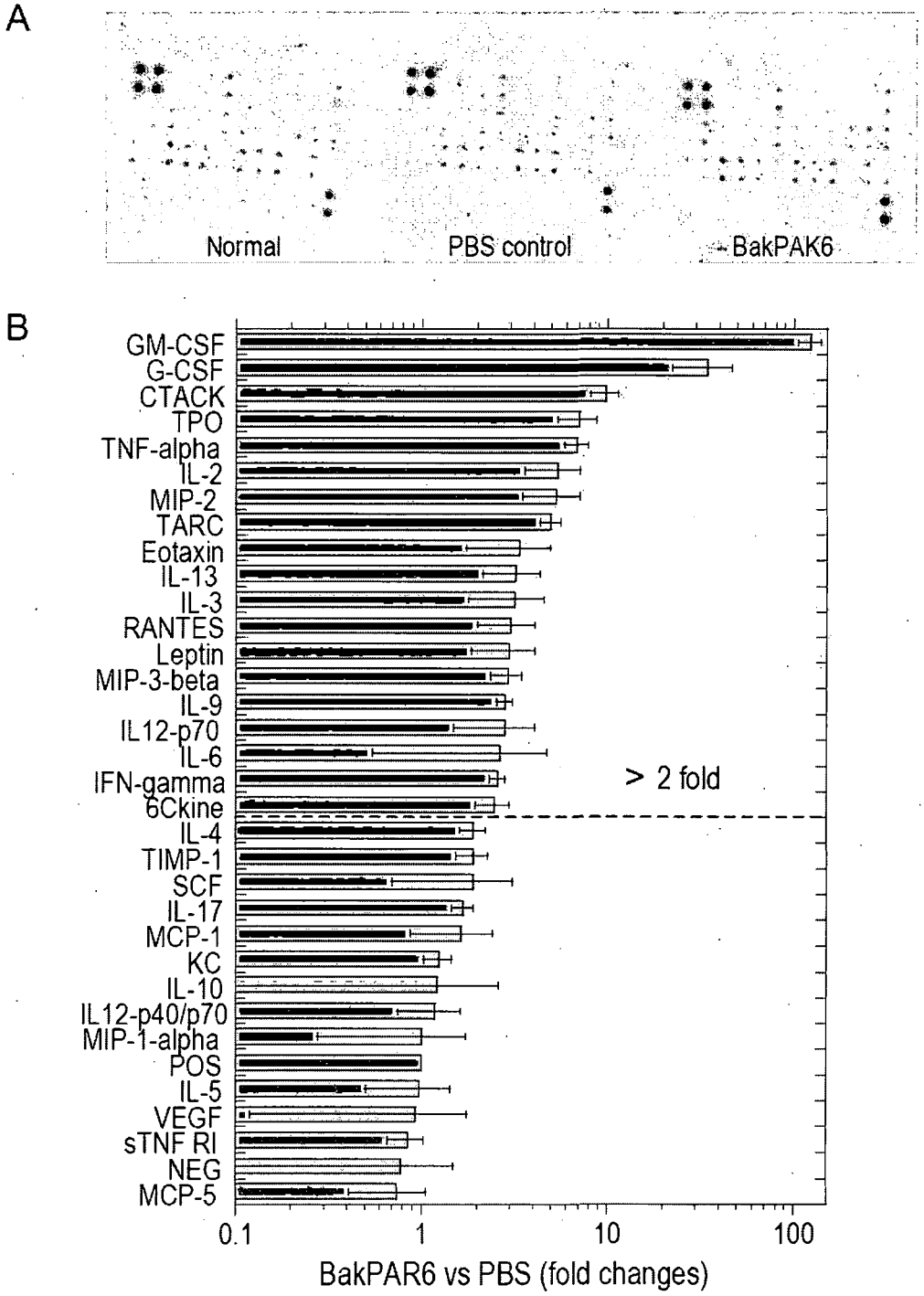
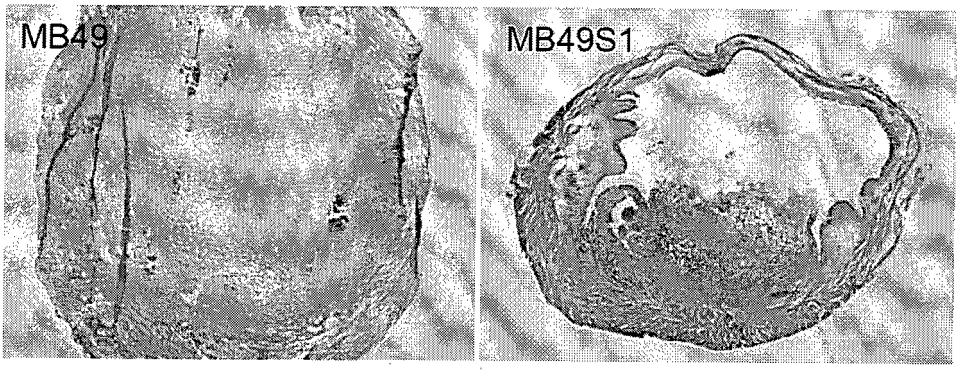

A
Normal
PBS control
BakPAK6
B
GM-CSF
G-CSF
CTACK
TPO
TNF-alpha
IL-2
MIP-2
TARC
Eotaxin
IL-13
IL-3
RANTES
Leptin
MIP-3-beta
IL-9
IL12-p70
IL-6
IFN-gamma
6Ckine
IL-4
TIMP-1
SCF
IL-17
MCP-1
KC
IL-10
IL12-p40/p70
MIP-1-alpha
POS
IL-5
VEGF
sTNF RI
NEG
MCP-5
> 2 fold
0.1
1
10
100
BakPAR6 vs PBS (fold changes)

**FIGURE 3**

A


MB49
MB49S1

B

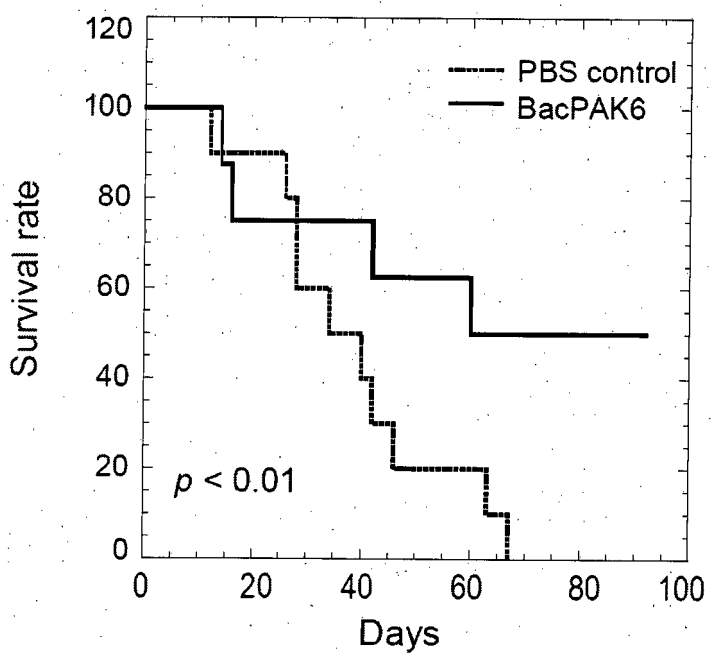

120
100
80
60
40
20
0
Survival rate
PBS control
BacPAK6
p < 0.01
0
20
40
60
80
100
Days

**FIGURE 4**

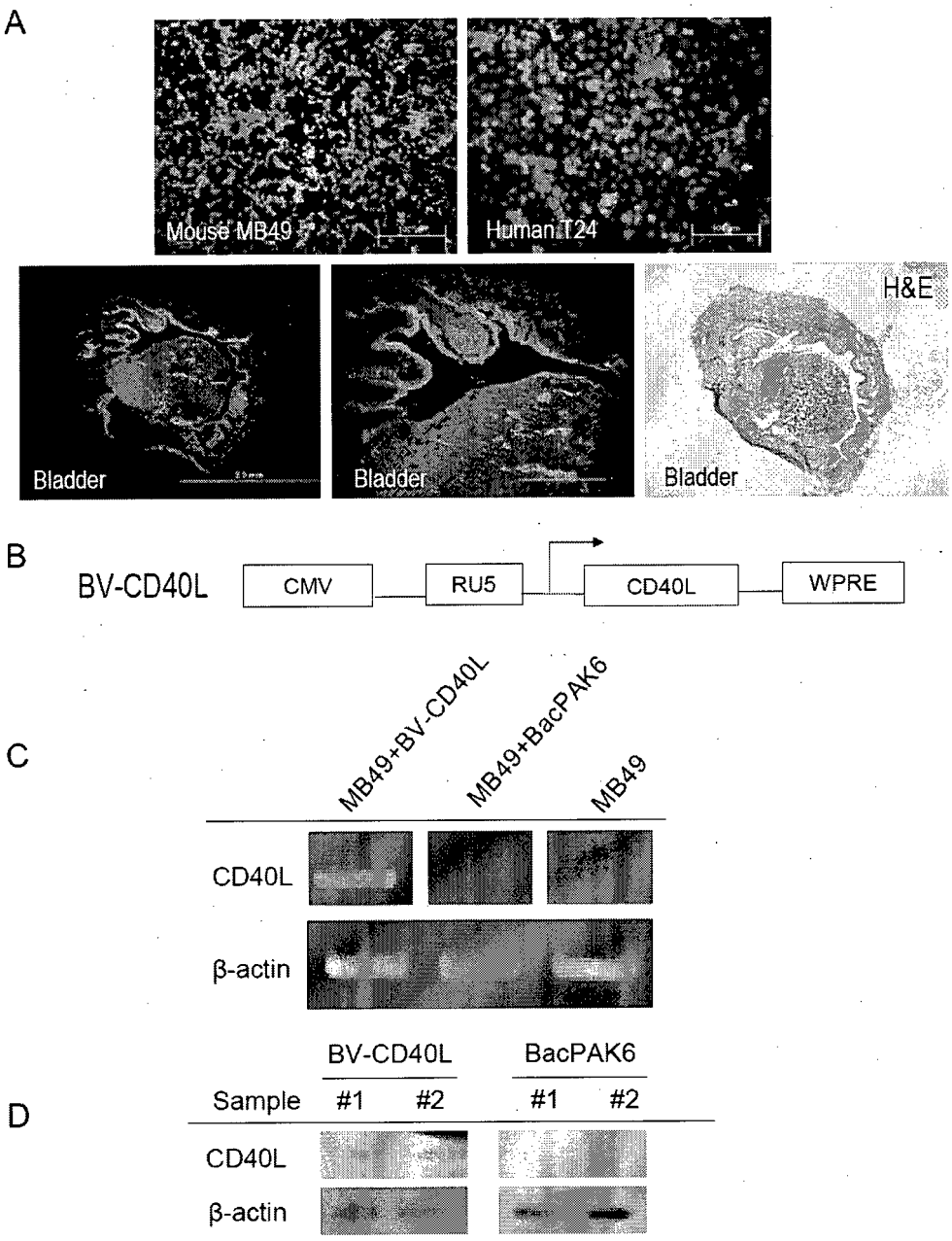

A
Mouse MB49
Human T24
Bladder
Bladder
H&E
Bladder
B
BV-CD40L
CMV
RU5
CD40L
WPRE
C
MB49+BV-CD40L
MB49+BacPAK6
MB49
CD40L
β-actin
D
BV-CD40L
BacPAK6
Sample
#1
#2
#1
#2
CD40L
β-actin

**FIGURE 5**

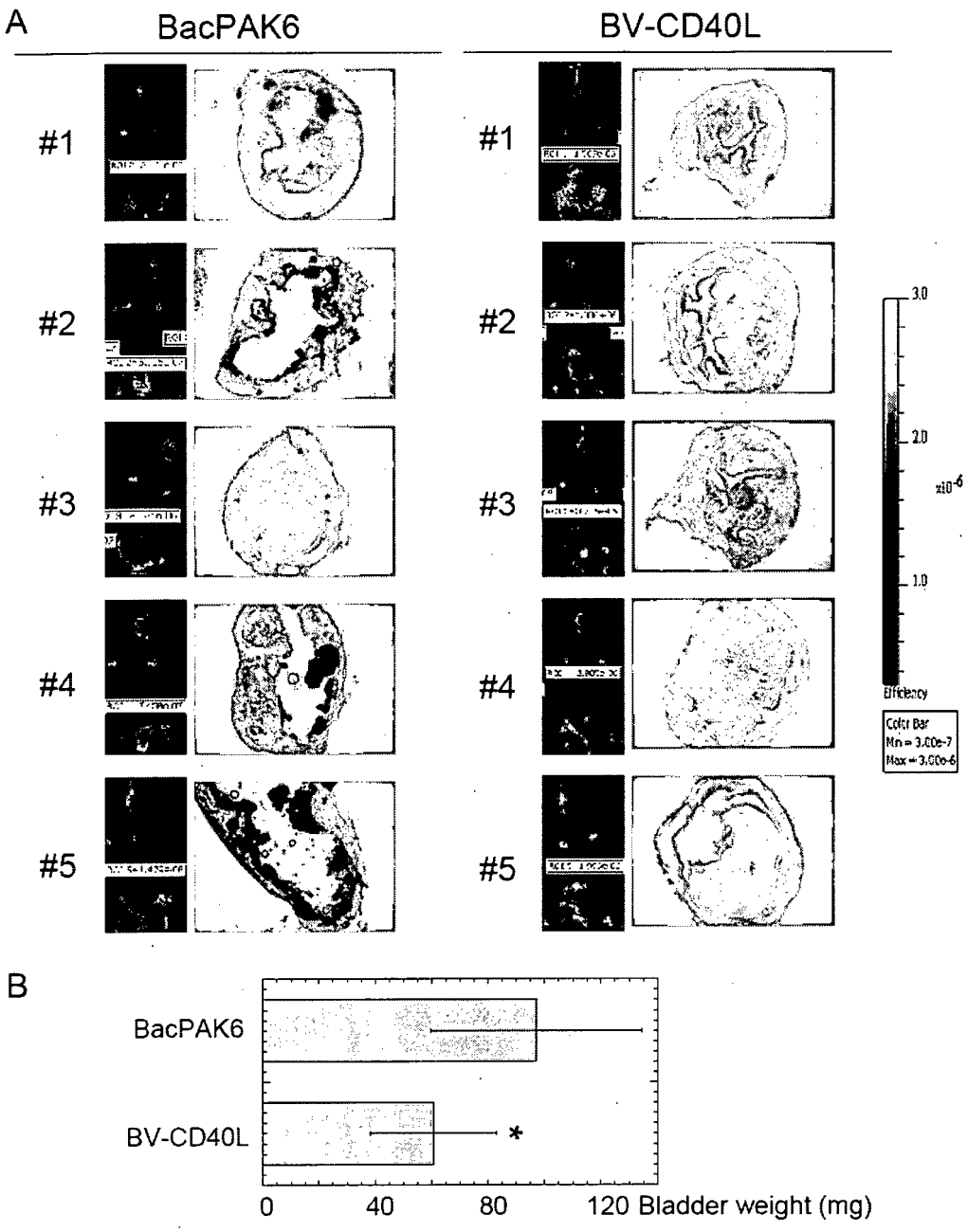

A
BacPAK6
BV-CD40L
#1
#2
#3
#4
#5
3.0
2.0
1.0
x10-6
Efficiency
Color Bar
Min = 3.00e-7
Max = 3.00e-6
B
BacPAK6
BV-CD40L
*
0
40
80
120 Bladder weight (mg)

**FIGURE 6**

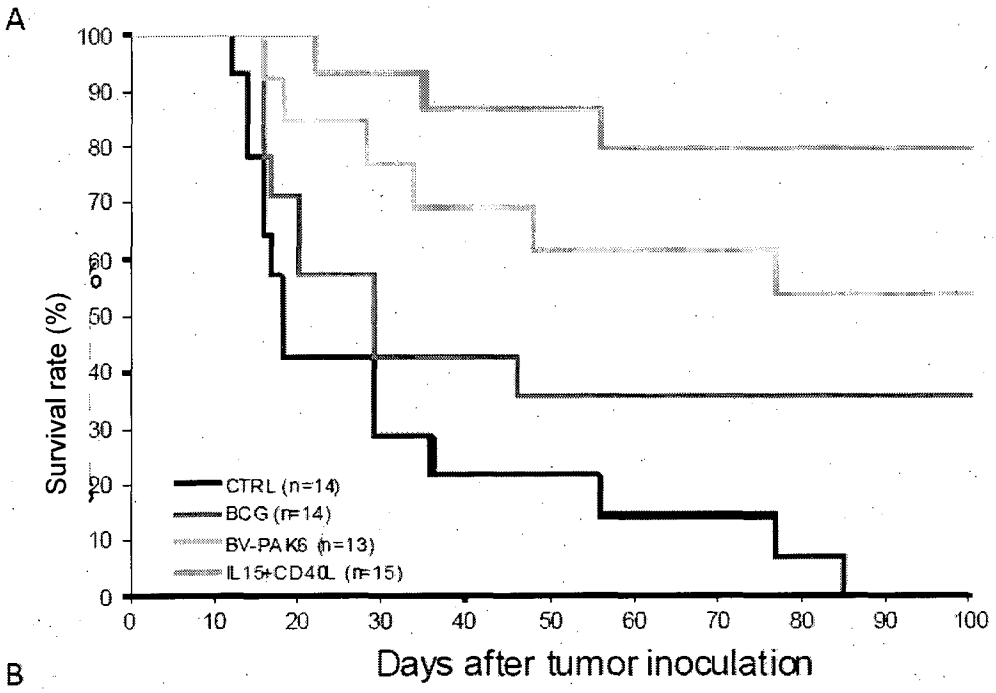

A
Survival rate (%)
Days after tumor inoculation
CTRL (n=14)
BCG (n=14)
BV-PAK6 (n=13)
IL15+CD40L (n=15)
B
Control
BCG
BV-PAK6
BV+IL15+BV-CD40L

**FIGURE 7**