FIG. 1A

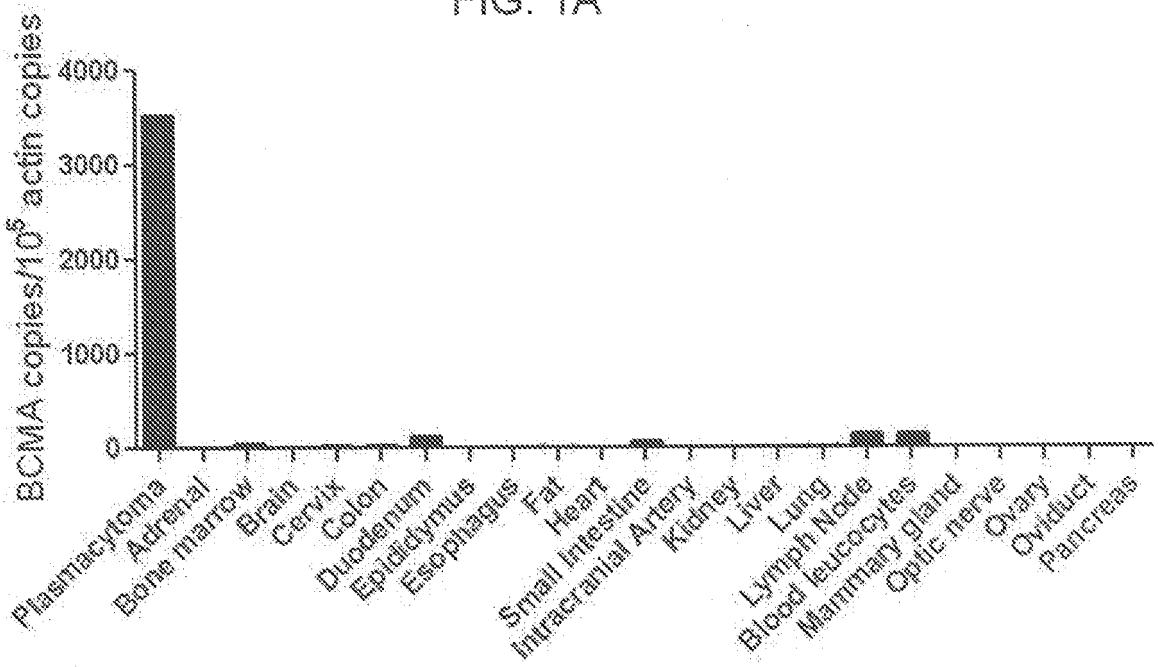

BCMA copies/10^5 actin copies
4000
3000
2000
1000
0
Plasmacytoma
Adrenal
Bone marrow
Brain
Cervix
Colon
Duodenum
Epididymus
Esophagus
Fat
Heart
Small intestine
Intracranial Artery
Kidney
Liver
Lung
Lymph Node
Blood leucocytes
Mammary gland
Optic nerve
Ovary
Oviduct
Pancreas

FIG. 1B

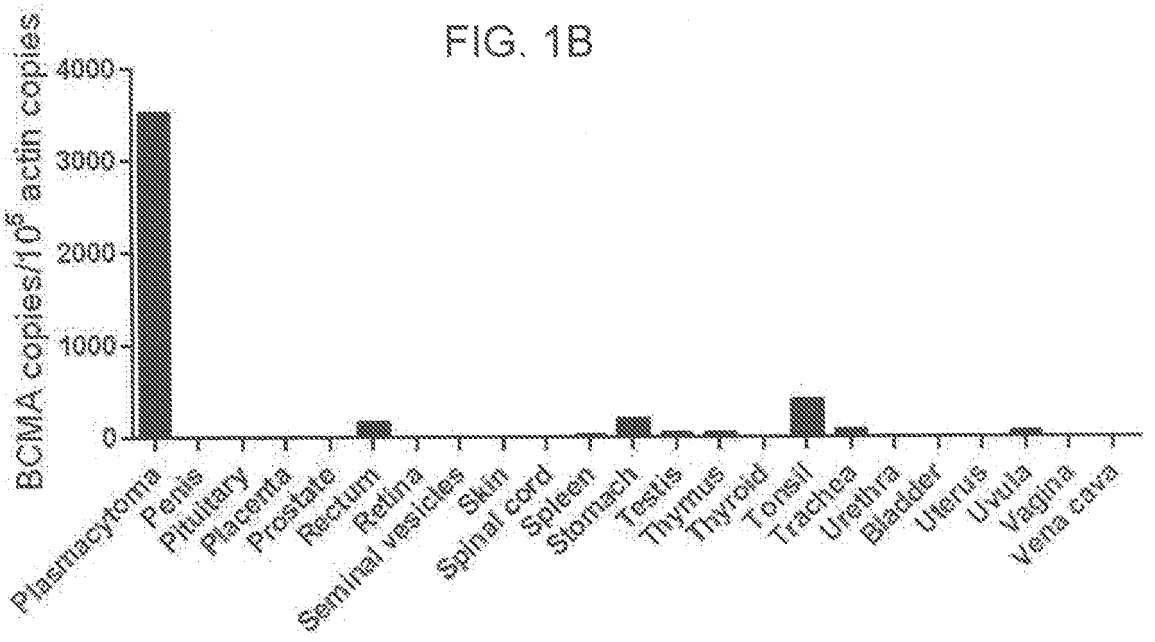

BCMA copies/10^5 actin copies
4000
3000
2000
1000
0
Plasmacytoma
Penis
Pituitary
Placenta
Prostate
Rectum
Retina
Seminal vesicles
Skin
Spinal cord
Spleen
Stomach
Testis
Thymus
Thyroid
Tonsil
Trachea
Urethra
Bladder
Uterus
Uvula
Vagina
Vena cava

FIG. 2

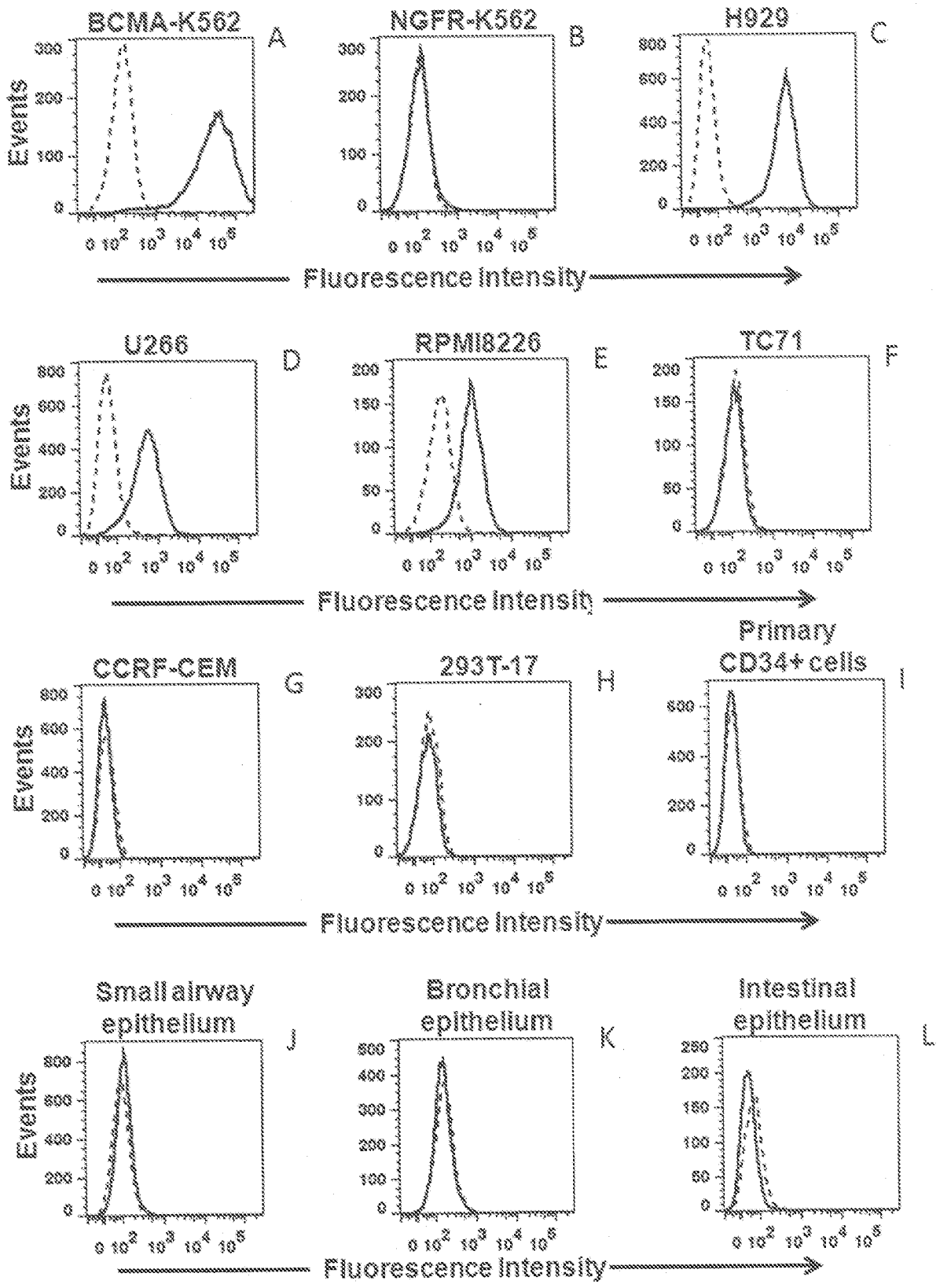

BCMA-K562
A
NGFR-K562
B
H929
C
Events
Fluorescence Intensity
U266
D
RPMI8226
E
TC71
F
Events
Fluorescence Intensity
CCRF-CEM
G
293T-17
H
Primary CD34+ cells
I
Events
Fluorescence Intensity
Small airway epithelium
J
Bronchial epithelium
K
Intestinal epithelium
L
Events
Fluorescence Intensity

FIG. 3

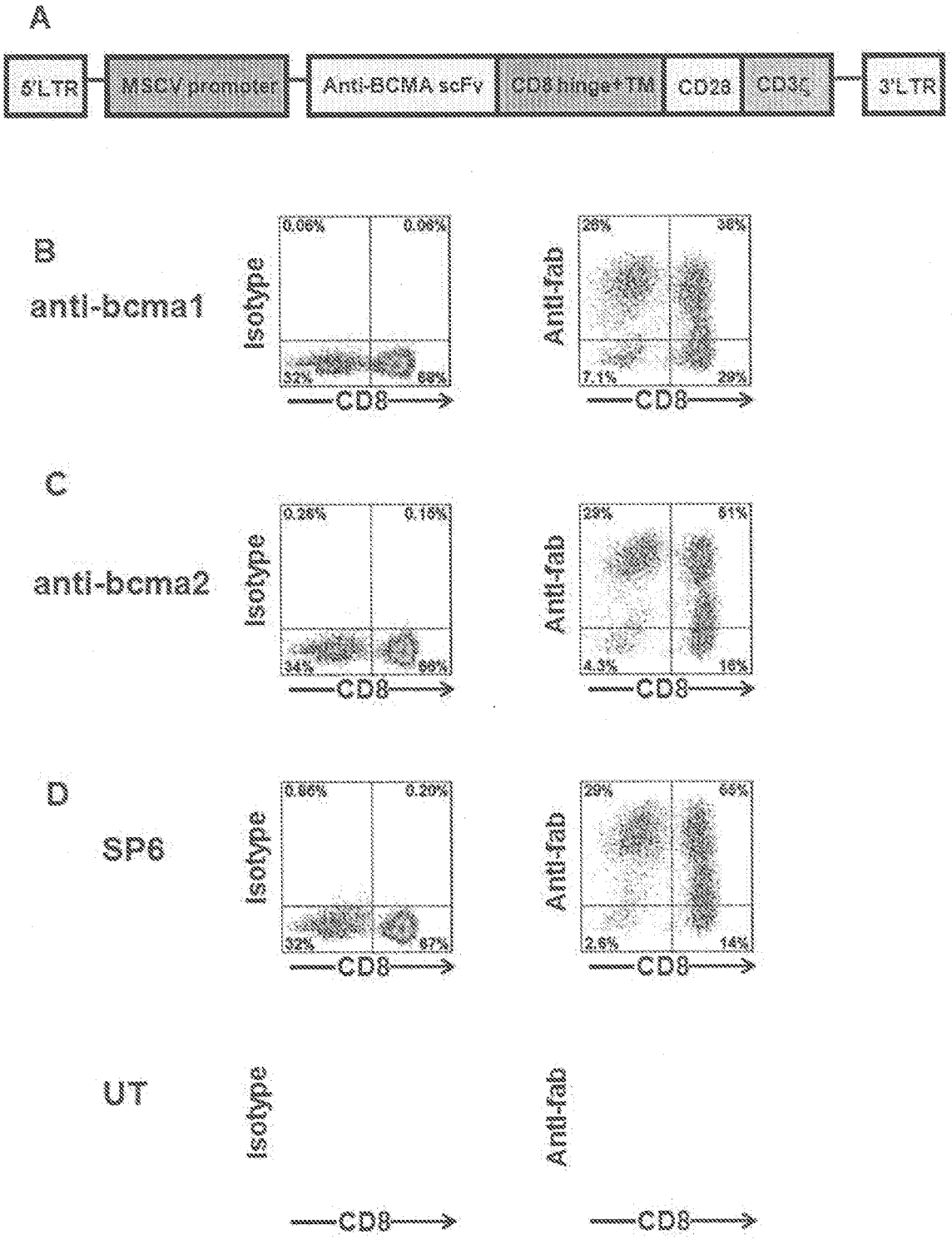

A
5'LTR
MSCV promoter
Anti-BCMA scFv
CD8 hinge+TM
CD28
CD3ζ
3'LTR
B
anti-bcma1
Isotype
Anti-fab
CD8
C
anti-bcma2
Isotype
Anti-fab
CD8
D
SP6
Isotype
Anti-fab
CD8
UT
Isotype
Anti-fab
CD8

FIG. 4

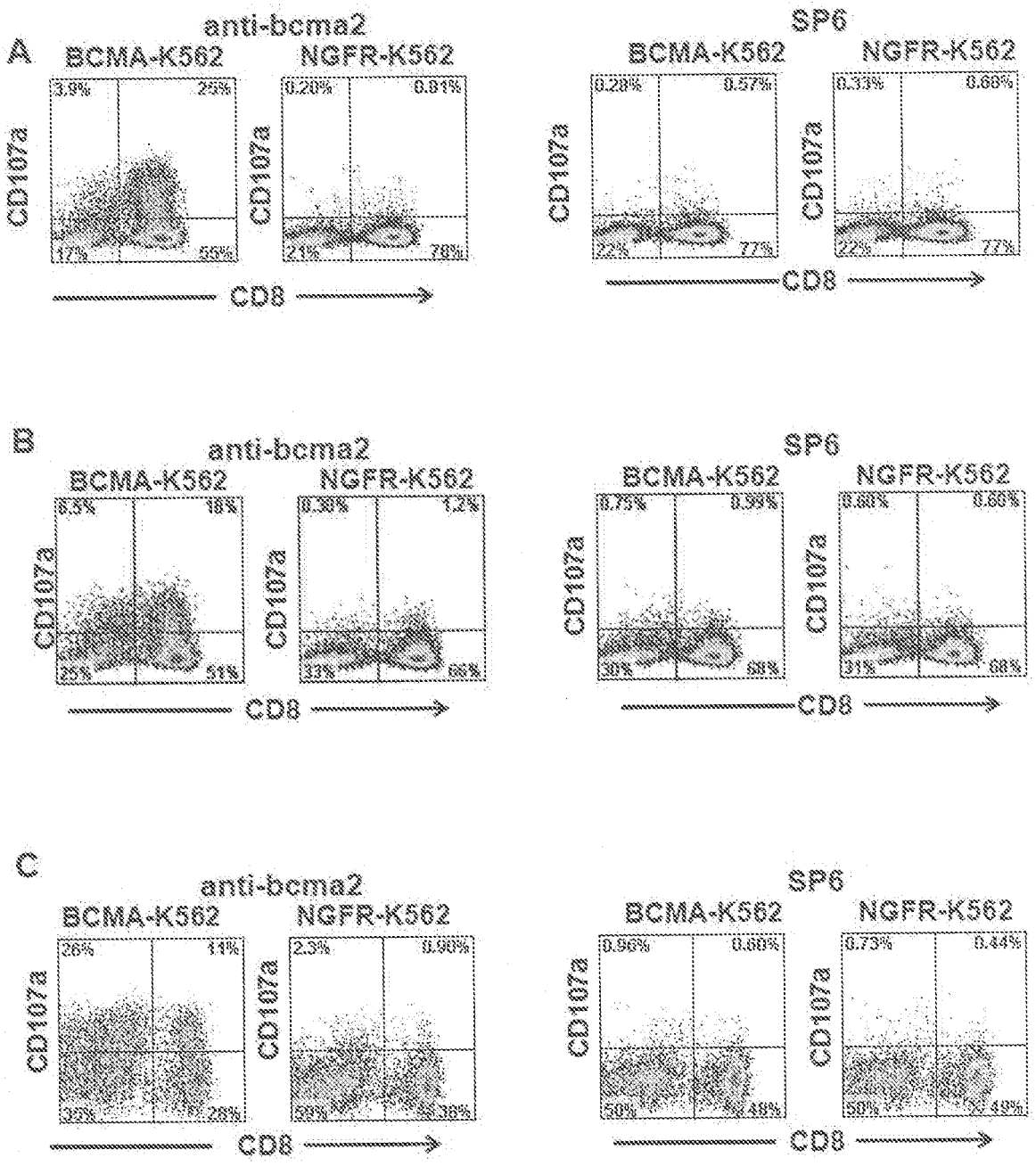

A
anti-bcma2
BCMA-K562
NGFR-K562
3.9%
25%
17%
55%
0.28%
0.81%
21%
78%
CD107a
CD8
SP6
BCMA-K562
NGFR-K562
0.28%
0.57%
22%
77%
0.33%
0.66%
22%
77%
B
anti-bcma2
BCMA-K562
NGFR-K562
8.3%
16%
25%
51%
0.30%
1.2%
33%
66%
SP6
BCMA-K562
NGFR-K562
0.75%
0.99%
30%
69%
0.80%
0.66%
31%
68%
C
anti-bcma2
BCMA-K562
NGFR-K562
26%
11%
32%
28%
2.3%
0.96%
36%
SP6
BCMA-K562
NGFR-K562
0.96%
0.80%
50%
48%
0.73%
0.44%
50%
43%

Fig. 5A Anti-bcma2-OX40

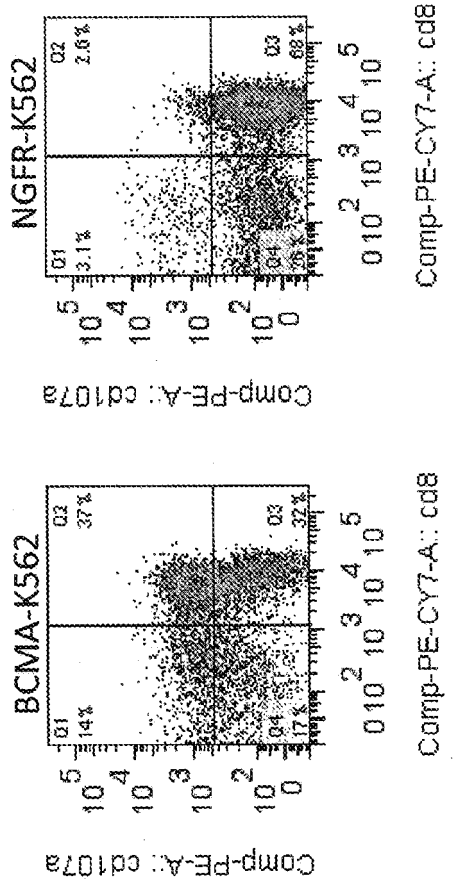



Fig. 5B Anti-bcma2-BB

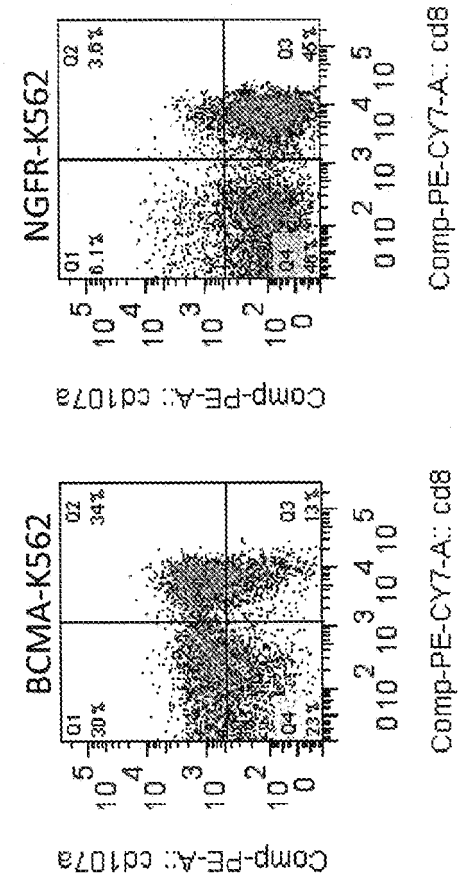



Fig. 5C 8ss-Anti-bcma2




Fig. 5D Untransduced

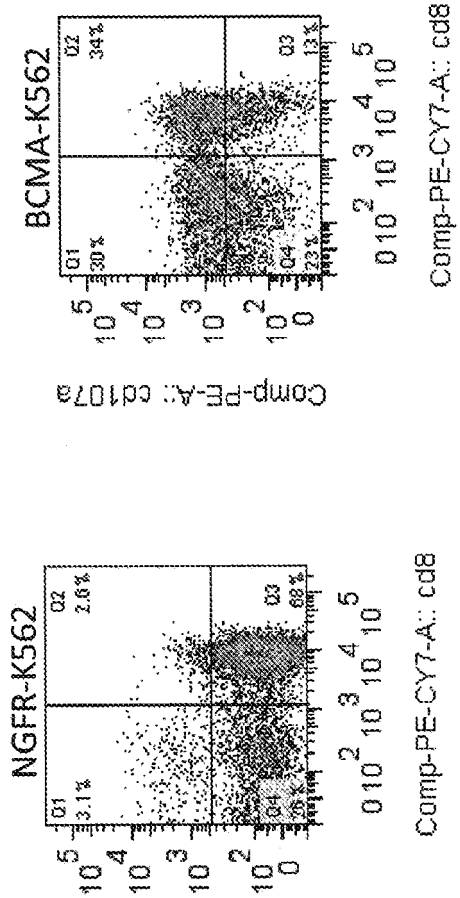
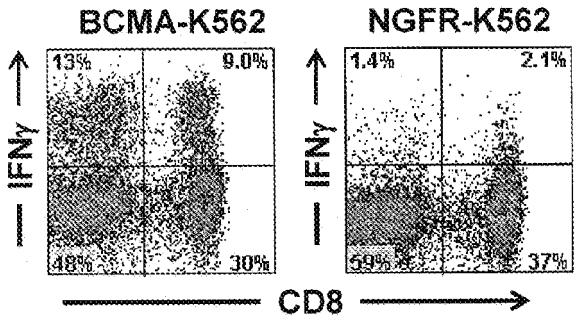


Fig. 6A anti-bcma2




SP6

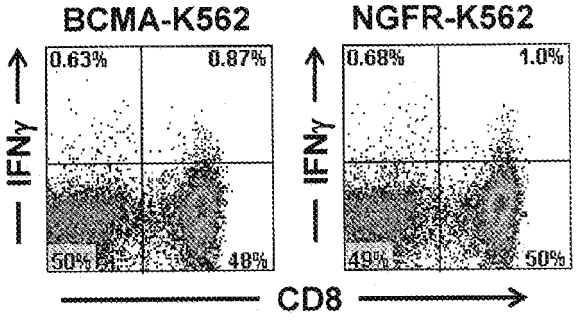
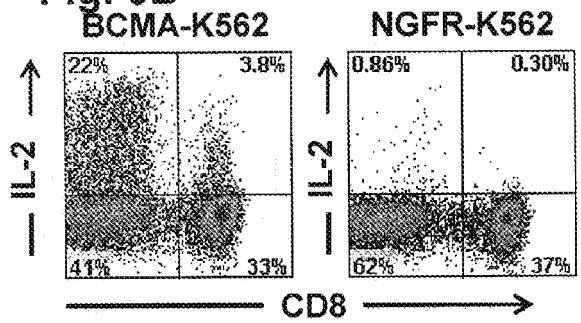



Fig. 6B anti-bcma2




SP6

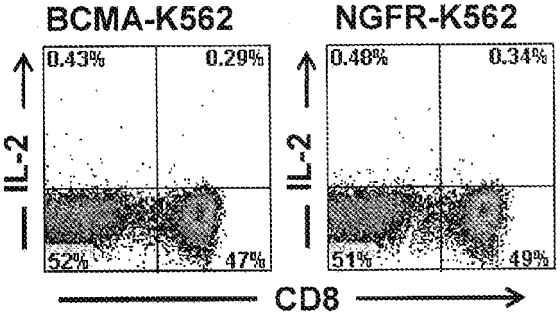
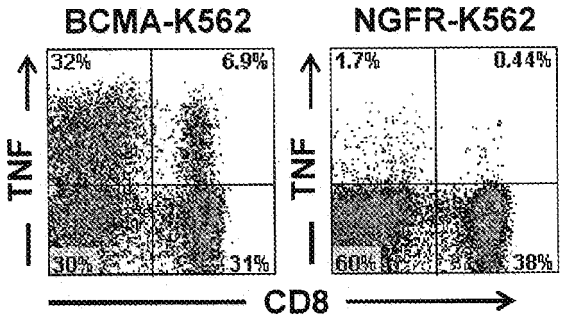



Fig. 6C anti-bcma2




SP6

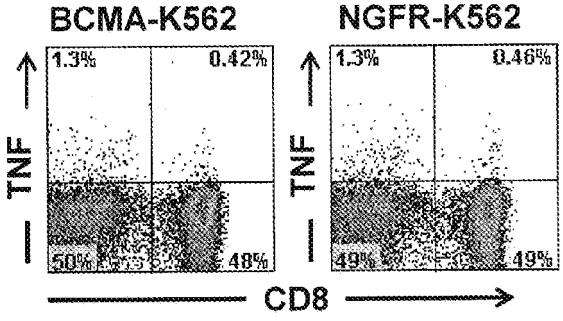


Fig. 7A

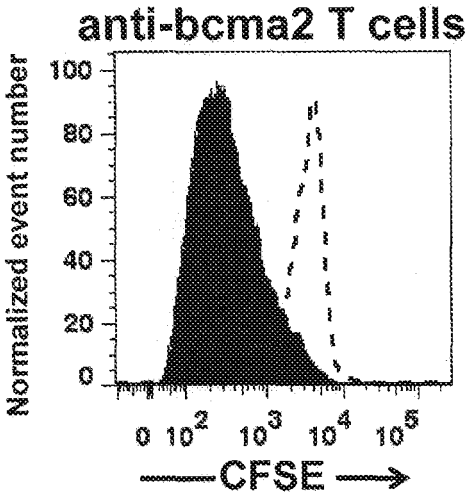



Fig. 7B

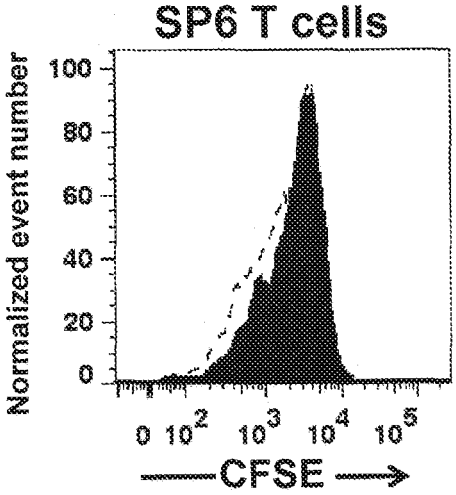



Fig. 7C

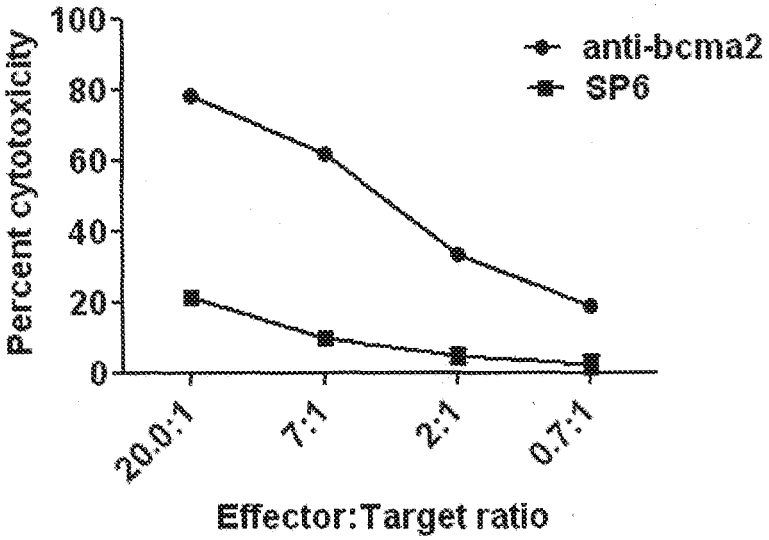



Fig. 7D

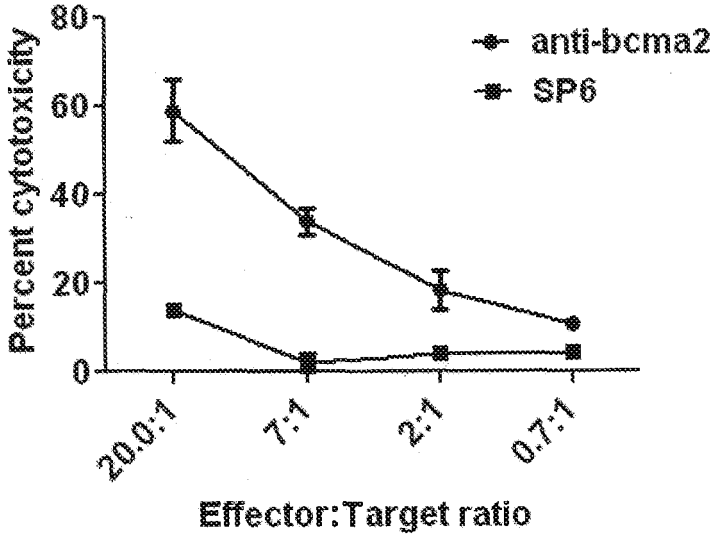


Fig. 8A

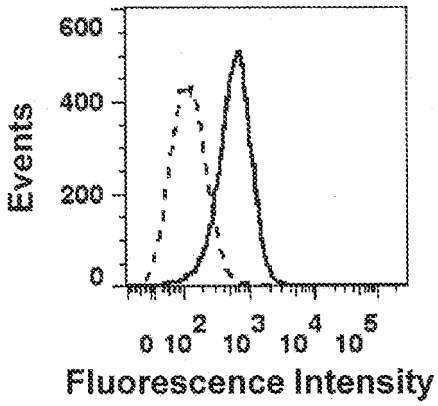



Fig. 8B

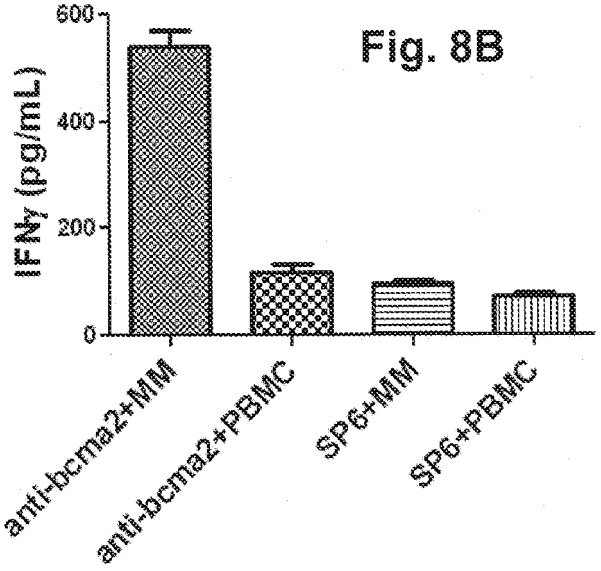



Fig. 8C

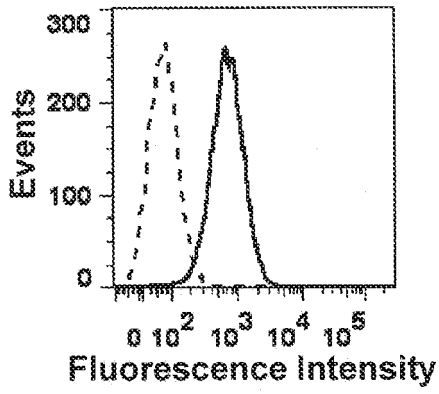



Fig. 8D

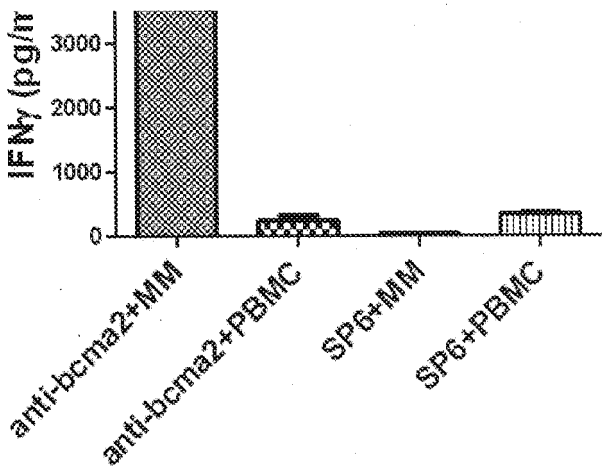



Fig. 8E

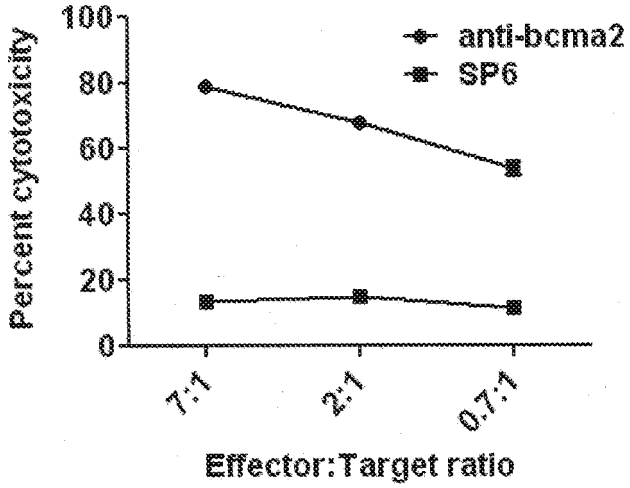


Figure 9B

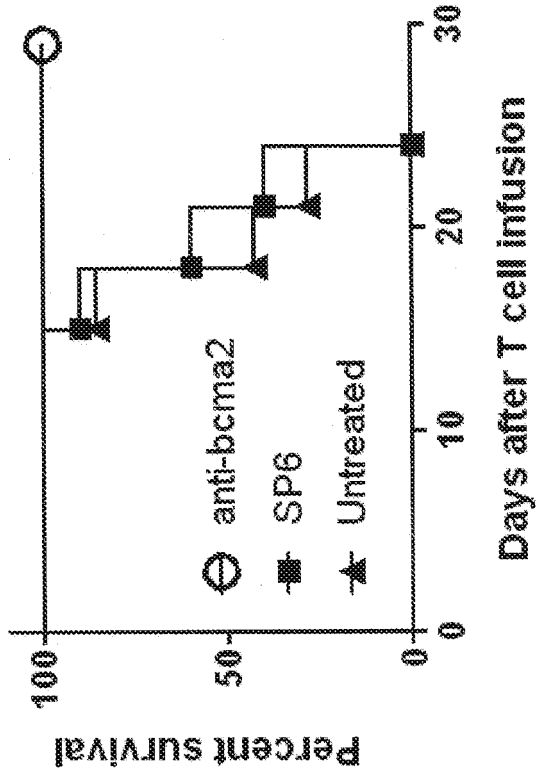



Figure 9A

