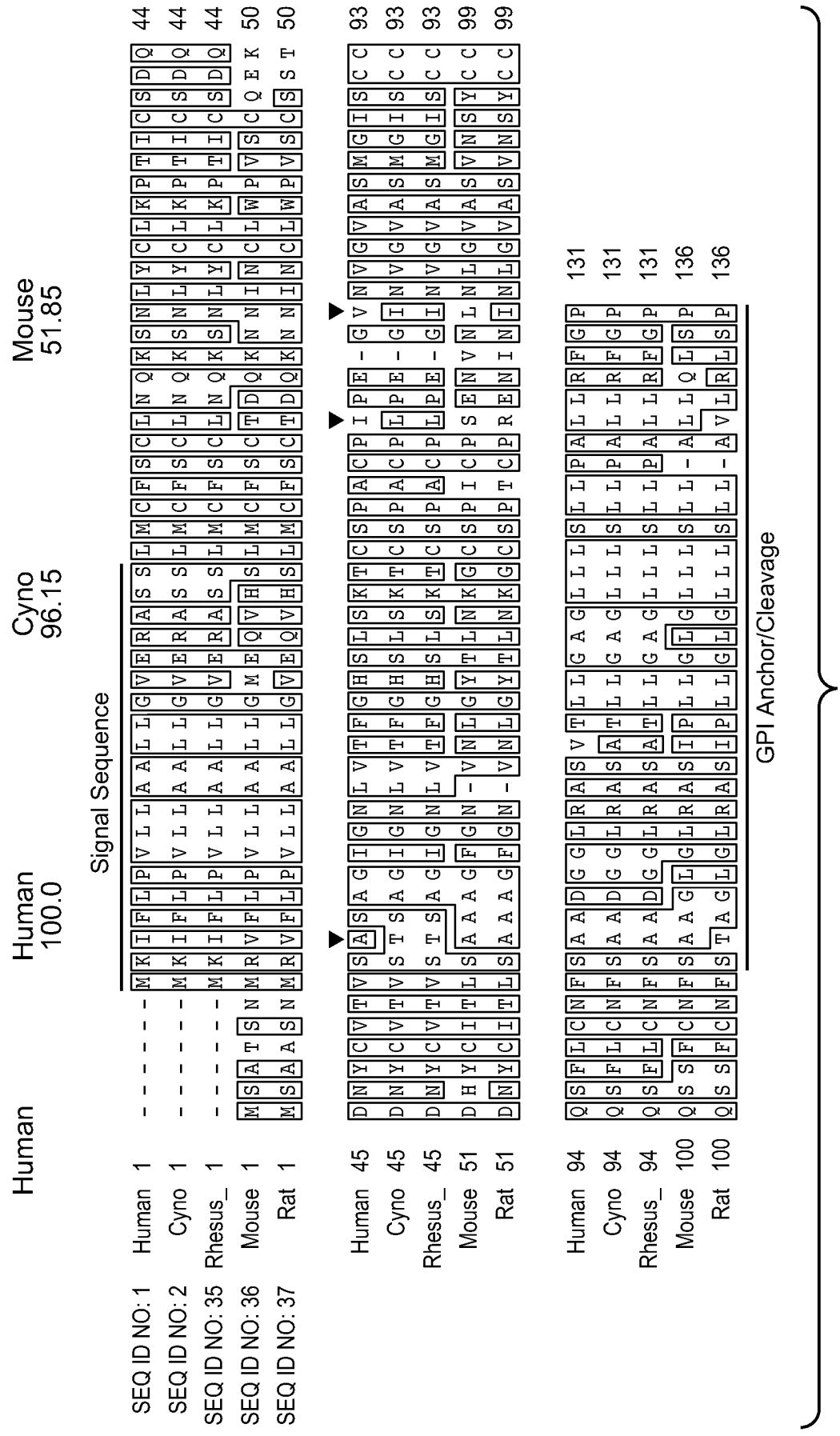

ECD Identity
Human
Human
100.0
Cyno
96.15
Mouse
51.85
Signal Sequence
GPI Anchor/Cleavage
SEQ ID NO: 1 Human 1 - - - - - - - M K I F L P V L L A A L L G V E R A S S L M C F S C L N Q K S N L Y C L K P T I C S D Q 44
SEQ ID NO: 2 Cyno 1 - - - - - - - M K I F L P V L L A A L L G V E R A S S L M C F S C L N Q K S N L Y C L K P T I C S D Q 44
SEQ ID NO: 35 Rhesus_ 1 - - - - - - - M K I F L P V L L A A L L G V E R A S S L M C F S C L N Q K S N L Y C L K P T I C S D Q 44
SEQ ID NO: 36 Mouse 1 M S A T S N M R V F L P V L L A A L L G M E Q V H S L M C F S C T D Q K N N I N C L W P V S C Q E K 50
SEQ ID NO: 37 Rat 1 M S A A S N M R V F L P V L L A A L L G V E Q V H S L M C F S C T D Q K N N I N C L W P V S C S T 50
Human 45 D N Y C V T V S A G I G N L V T F G H S L S K T C S P A C P L P E - G V N V G V A S M G I S C C 93
Cyno 45 D N Y C V T V S T S A G I G N L V T F G H S L S K T C S P A C P L P E - G I N V G V A S M G I S C C 93
Rhesus_ 45 D N Y C V T V S T S A G I G N L V T F G H S L S K T C S P A C P L P E - G I N V G V A S M G I S C C 93
Mouse 51 D H Y C I T L S A A A G F G N - V N L G Y T L N K G C S P I C P S E N V N L N L G V A S V N S Y C C 99
Rat 51 D N Y C I T L S A A A G F G N - V N L G Y T L N K G C S P T C P R E N I N I N L G V A S V N S Y C C 99
Human 94 Q S F L C N F S A A D G G L R A S V T L L G A G L L L S L L P A L L R F G P 131
Cyno 94 Q S F L C N F S A A D G G L R A S A T L L G A G L L L S L L P A L L R F G P 131
Rhesus_ 94 Q S F L C N F S A A D G G L R A S A T L L G A G L L L S L L P A L L R F G P 131
Mouse 100 Q S S F C N F S A A G L G L R A S I P L L G L G L L L S L L - A L L Q L S P 136
Rat 100 Q S S F C N F S T A G L G L R A S I P L L G L G L L L S L L - A V L R L S P 136

FIG. 1

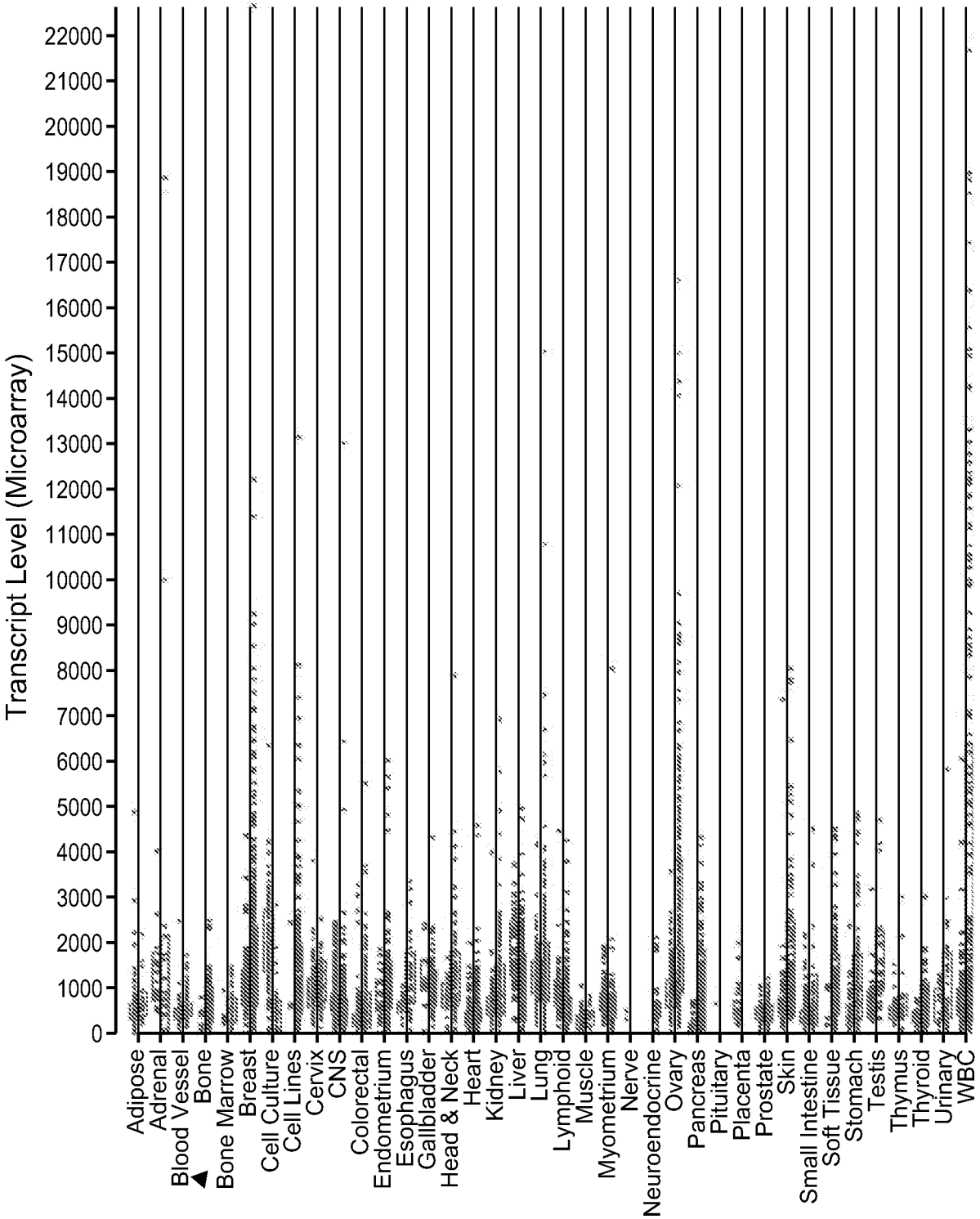

Transcript Level (Microarray)
0
1000
2000
3000
4000
5000
6000
7000
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9000
10000
11000
12000
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16000
17000
18000
19000
20000
21000
22000
Adipose
Adrenal
Blood Vessel
Bone
Bone Marrow
Breast
Cell Culture
Cell Lines
Cervix
CNS
Colorectal
Endometrium
Esophagus
Gallbladder
Head & Neck
Heart
Kidney
Liver
Lung
Lymphoid
Muscle
Myometrium
Nerve
Neuroendocrine
Ovary
Pancreas
Pituitary
Placenta
Prostate
Skin
Small Intestine
Soft Tissue
Stomach
Testis
Thymus
Thyroid
Urinary
WBC

FIG. 2

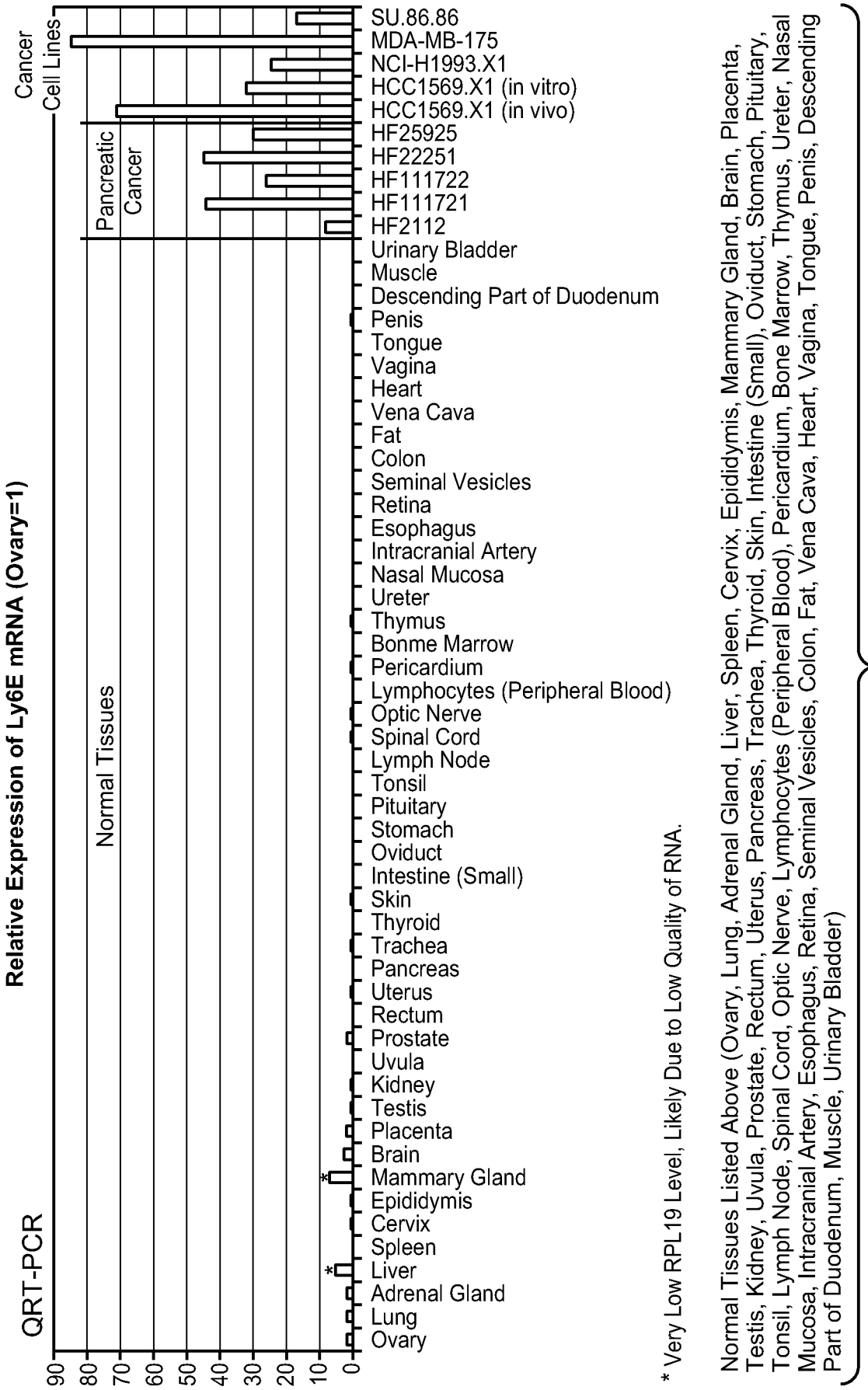

QRT-PCR
Relative Expression of Ly6E mRNA (Ovary=1)
Cancer Cell Lines
Pancreatic Cancer
Normal Tissues
SU.86.86
MDA-MB-175
NCI-H1993.X1
HCC1569.X1 (in vitro)
HCC1569.X1 (in vivo)
HF25925
HF22251
HF111722
HF111721
HF2112
Urinary Bladder
Muscle
Descending Part of Duodenum
Penis
Tongue
Vagina
Heart
Vena Cava
Fat
Colon
Seminal Vesicles
Retina
Esophagus
Intracranial Artery
Nasal Mucosa
Ureter
Thymus
Bonme Marrow
Pericardium
Lymphocytes (Peripheral Blood)
Optic Nerve
Spinal Cord
Lymph Node
Tonsil
Pituitary
Stomach
Oviduct
Intestine (Small)
Skin
Thyroid
Trachea
Pancreas
Uterus
Rectum
Prostate
Uvula
Kidney
Testis
Placenta
Brain
Mammary Gland
Epididymis
Cervix
Spleen
Liver
Adrenal Gland
Lung
Ovary
0
10
20
30
40
50
60
70
80
90
*
*
* Very Low RPL19 Level, Likely Due to Low Quality of RNA.
Normal Tissues Listed Above (Ovary, Lung, Adrenal Gland, Liver, Spleen, Cervix, Epididymis, Mammary Gland, Brain, Placenta, Testis, Kidney, Uvula, Prostate, Rectum, Uterus, Pancreas, Trachea, Thyroid, Skin, Intestine (Small), Oviduct, Stomach, Pituitary, Tonsil, Lymph Node, Spinal Cord, Optic Nerve, Lymphocytes (Peripheral Blood), Pericardium, Bone Marrow, Thymus, Ureter, Nasal Mucosa, Intracranial Artery, Esophagus, Retina, Seminal Vesicles, Colon, Fat, Vena Cava, Heart, Vagina, Tongue, Penis, Descending Part of Duodenum, Muscle, Urinary Bladder)

FIG. 3

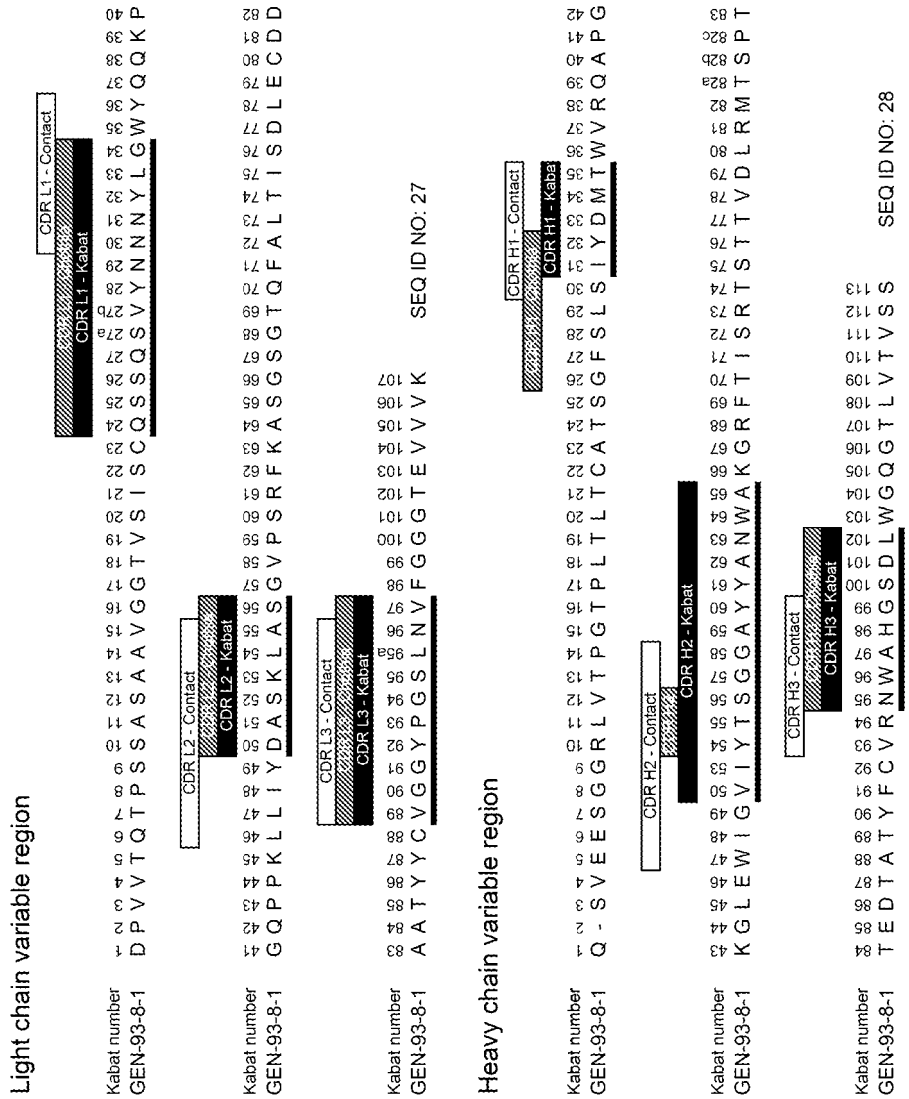

Light chain variable region
CDR L1 - Contact
CDR L1 - Kabat
CDR L2 - Contact
CDR L2 - Kabat
CDR L3 - Contact
CDR L3 - Kabat
Kabat number
GEN-93-8-1
SEQ ID NO: 27
Heavy chain variable region
CDR H1 - Contact
CDR H1 - Kabat
CDR H2 - Contact
CDR H2 - Kabat
CDR H3 - Contact
CDR H3 - Kabat
SEQ ID NO: 28

FIG. 4

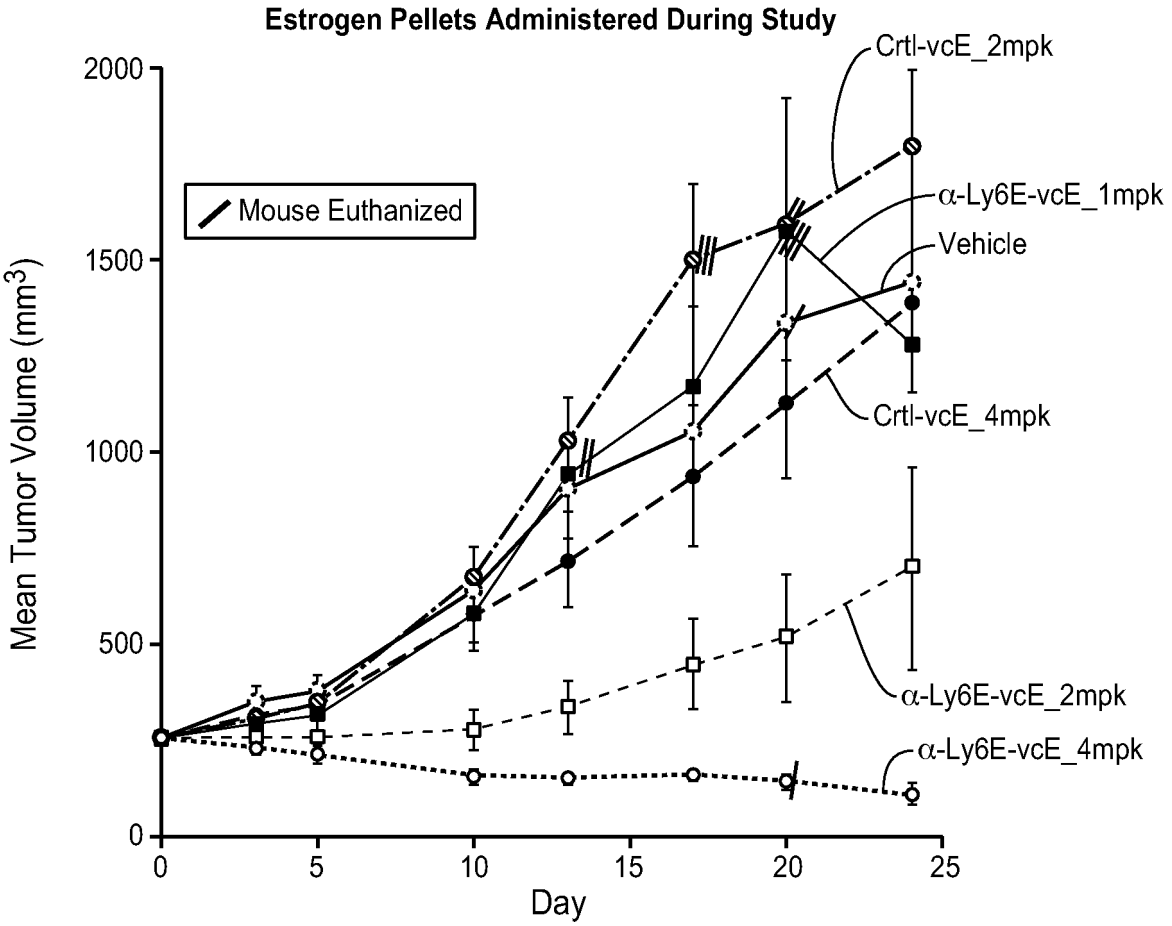

Estrogen Pellets Administered During Study
Crtl-vcE_2mpk
α-Ly6E-vcE_1mpk
Vehicle
Crtl-vcE_4mpk
α-Ly6E-vcE_2mpk
α-Ly6E-vcE_4mpk
Mouse Euthanized
Mean Tumor Volume (mm3)
Day
0
500
1000
1500
2000
0
5
10
15
20
25

FIG. 5A

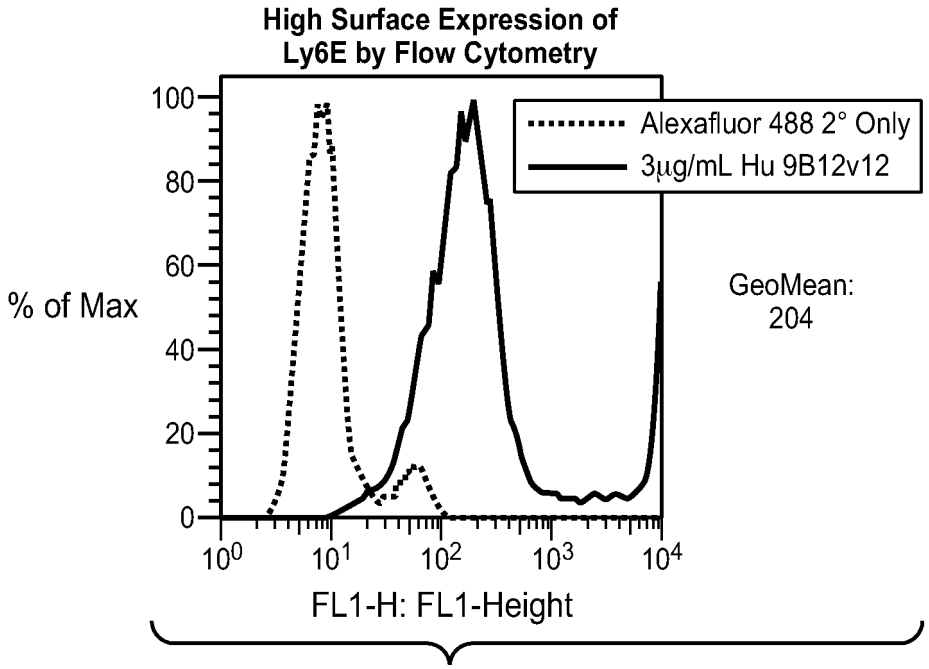

High Surface Expression of
Ly6E by Flow Cytometry
Alexafluor 488 2° Only
3μg/mL Hu 9B12v12
% of Max
GeoMean:
204
FL1-H: FL1-Height

FIG. 5B

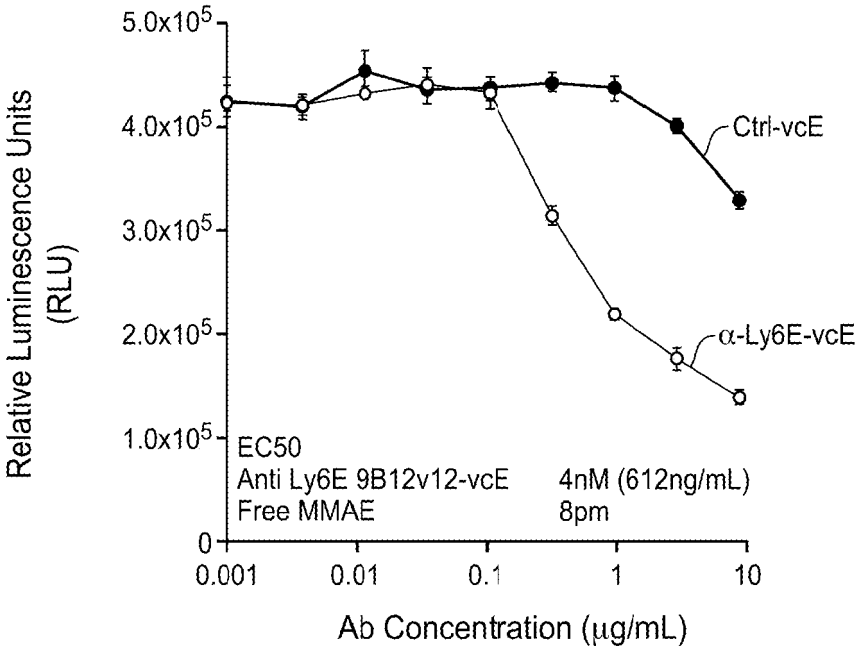

5.0x10^5
4.0x10^5
3.0x10^5
2.0x10^5
1.0x10^5
0
Relative Luminescence Units (RLU)
Ctrl-vcE
α-Ly6E-vcE
EC50
Anti Ly6E 9B12v12-vcE
Free MMAE
4nM (612ng/mL)
8pm
0.001
0.01
0.1
1
10
Ab Concentration (μg/mL)

FIG. 5C

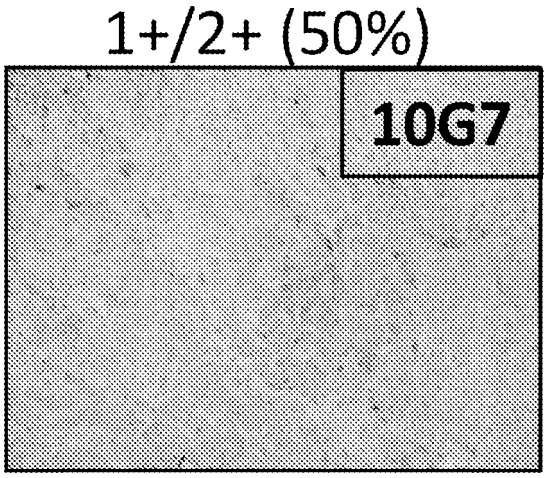

1+/2+ (50%)
10G7

FIG. 5D

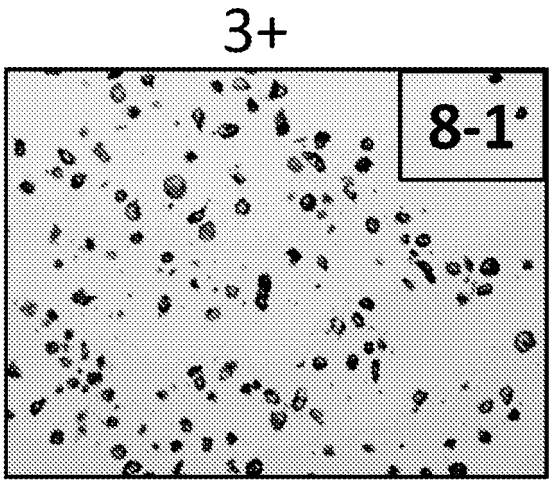

3+
8-1

FIG. 5E

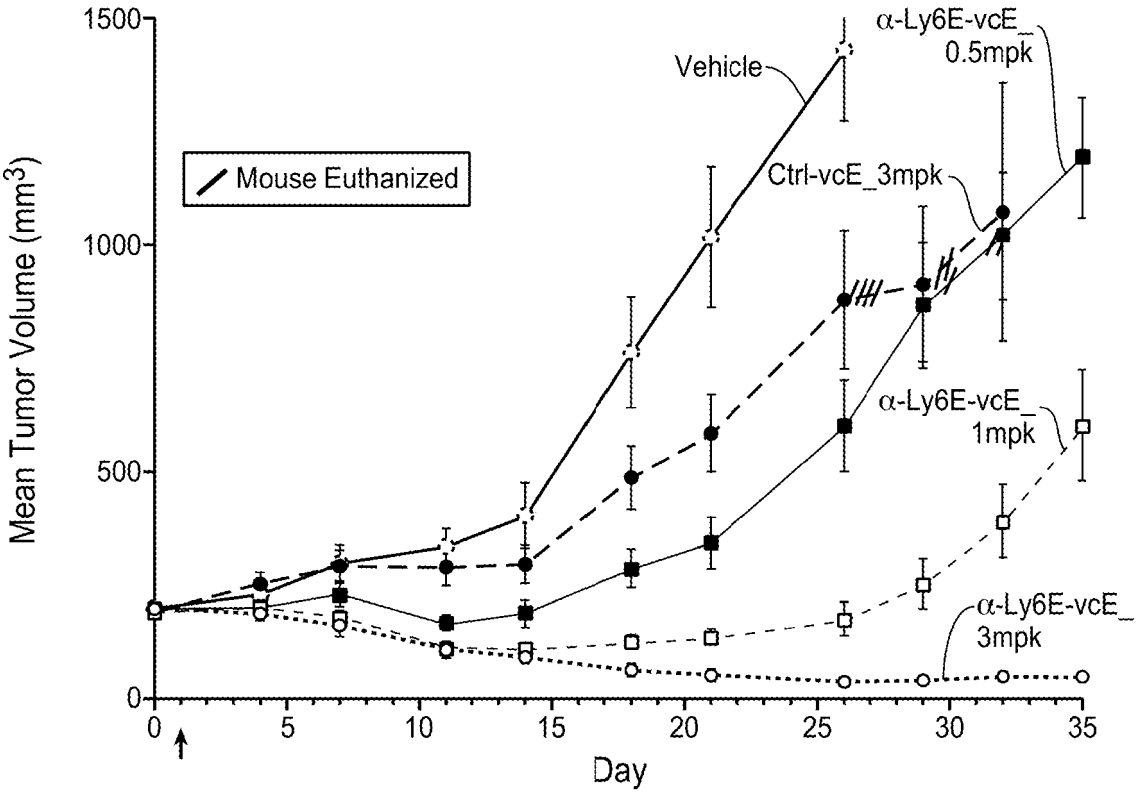

Mean Tumor Volume (mm3)
1500
1000
500
0
0
5
10
15
20
25
30
35
Day
Mouse Euthanized
Vehicle
α-Ly6E-vcE_
0.5mpk
Ctrl-vcE_3mpk
α-Ly6E-vcE_
1mpk
α-Ly6E-vcE_
3mpk

FIG. 6A

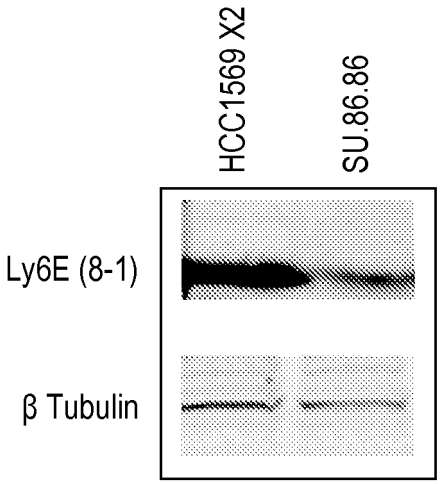


FIG. 6B

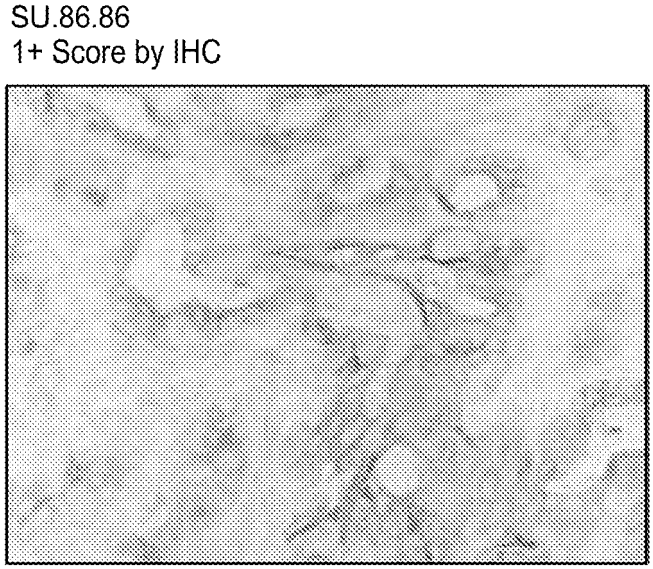


FIG. 6C

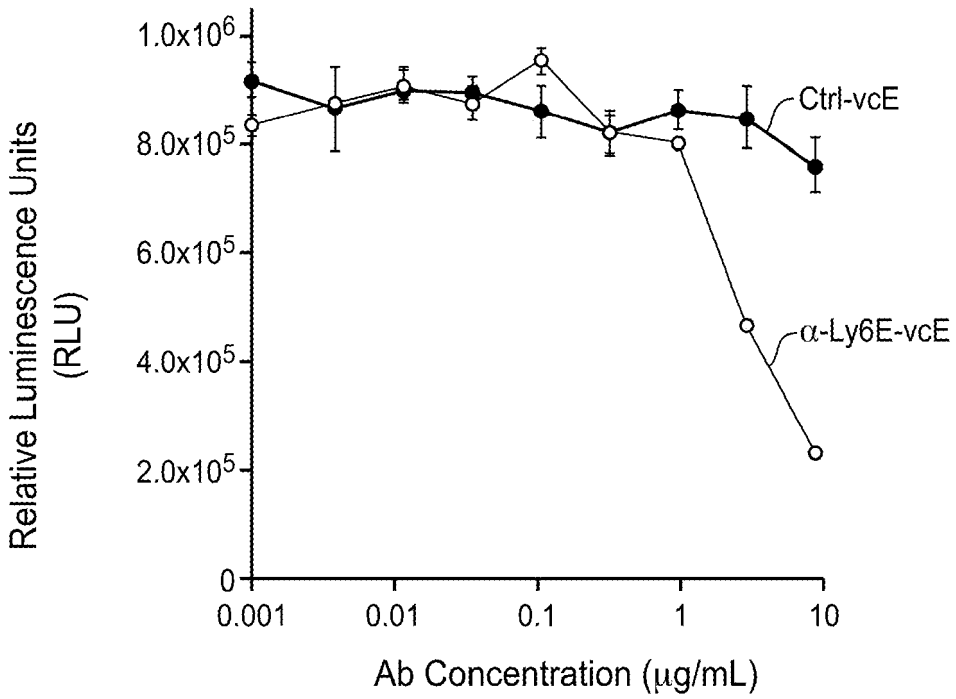


FIG. 6D

2+ (90%)

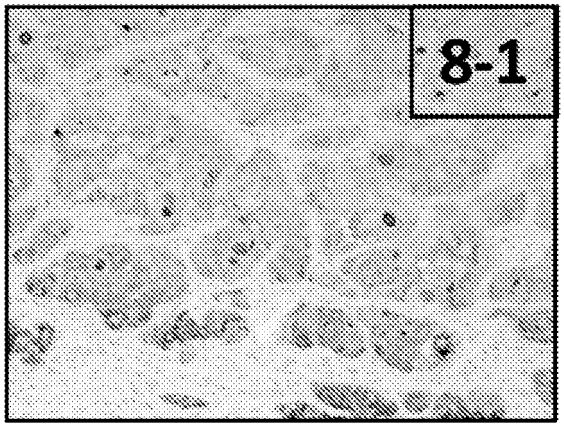


FIG. 6E

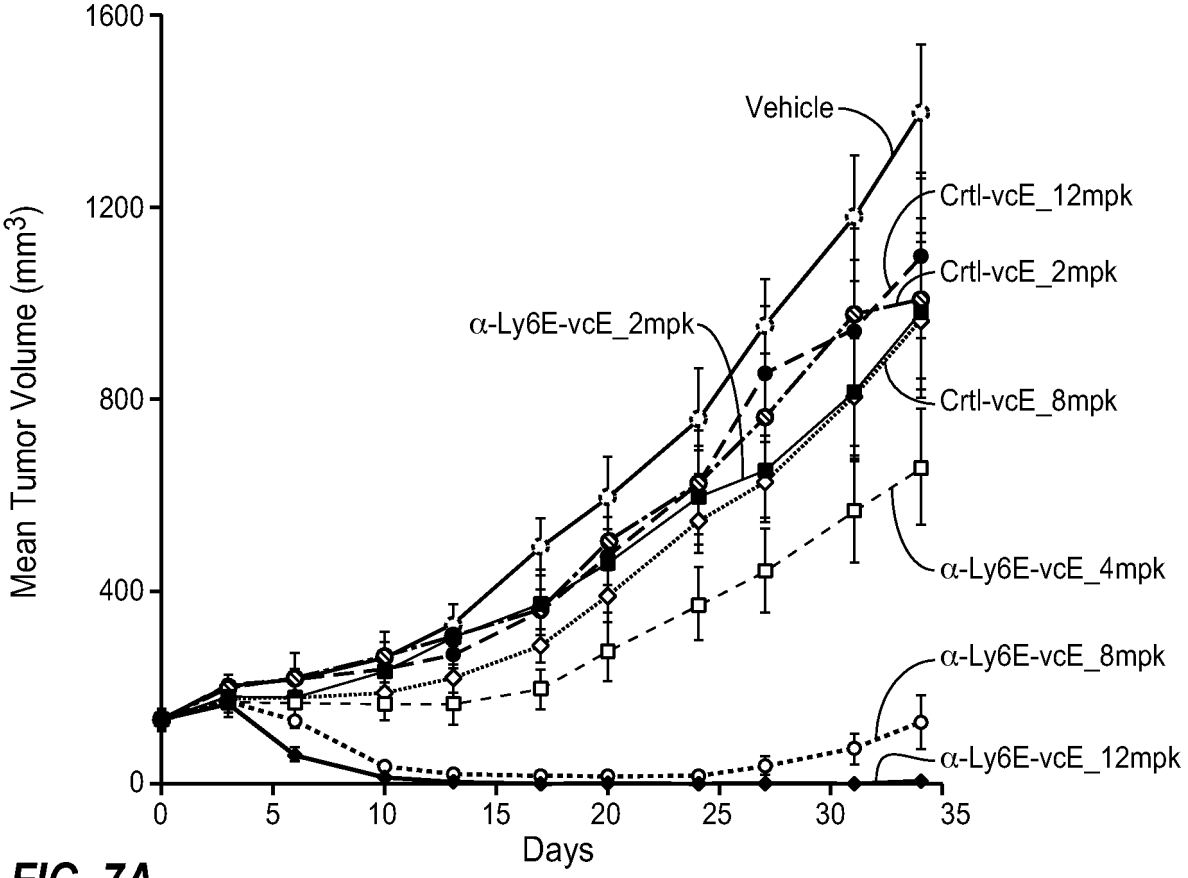


FIG. 7A

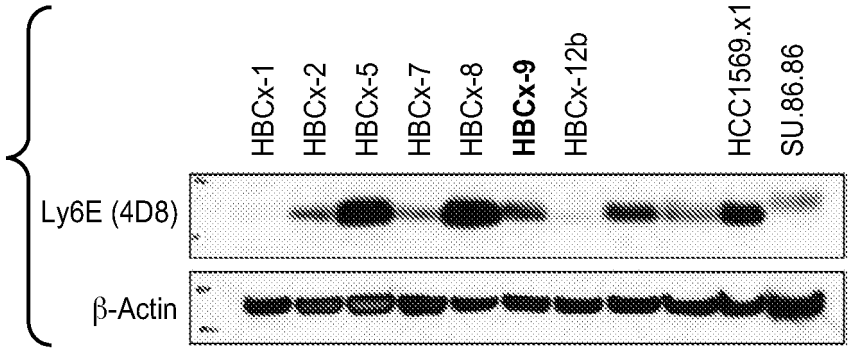


FIG. 7B

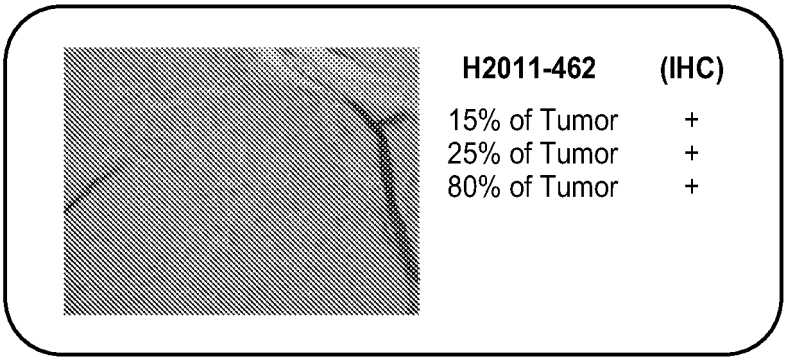


FIG. 7C

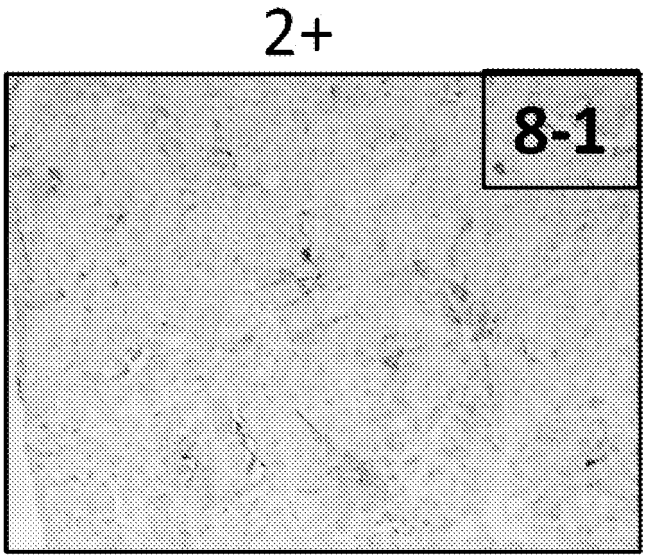


FIG. 7D

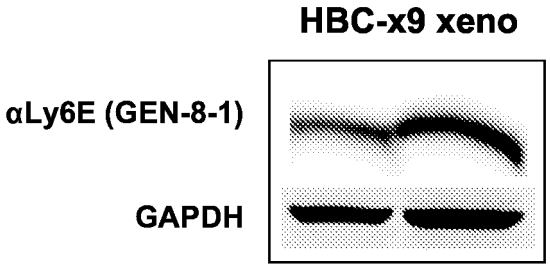


FIG. 7E

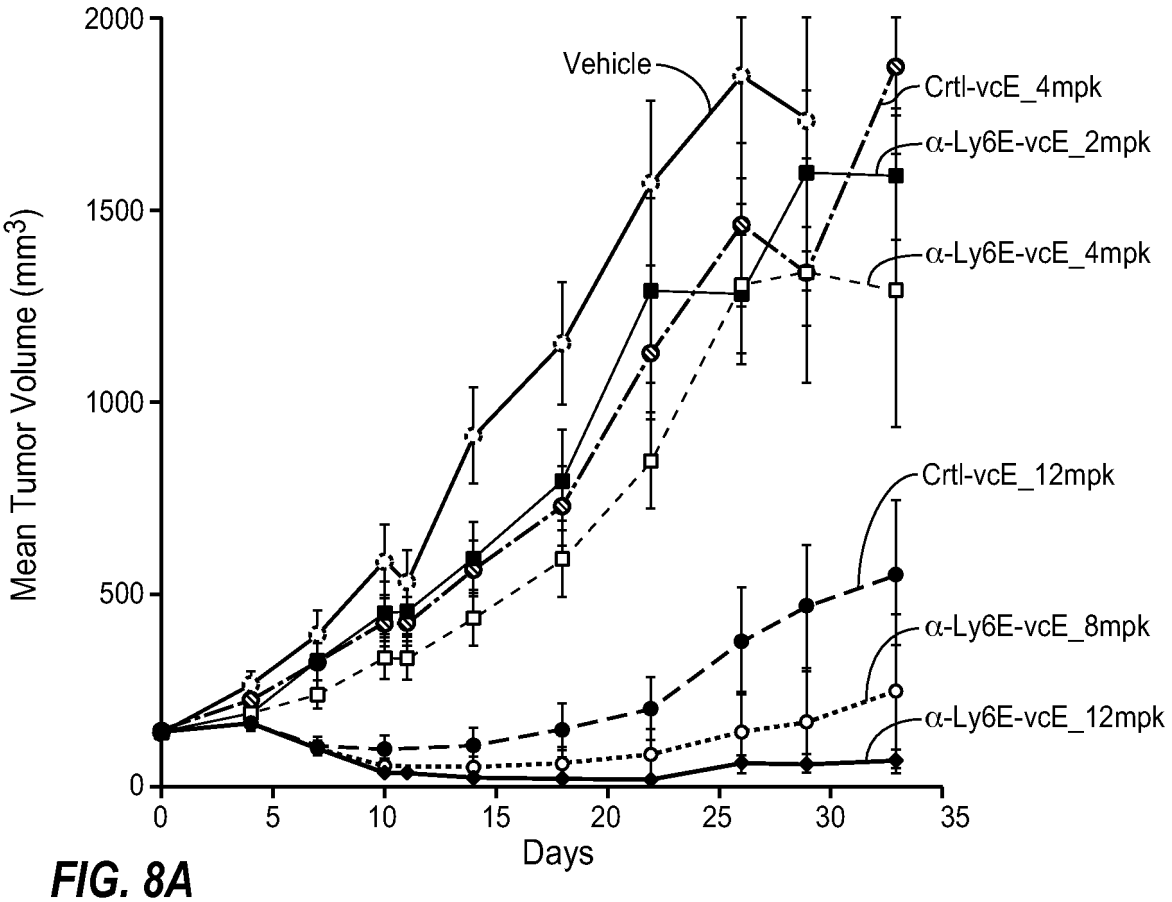


FIG. 8A

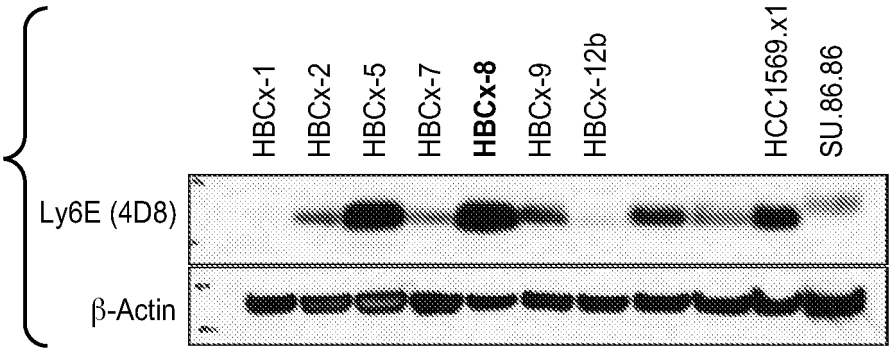


FIG. 8B

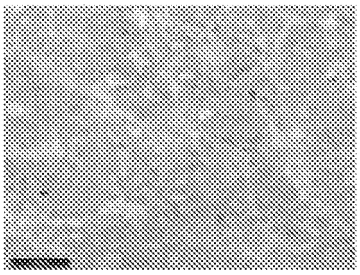


FIG. 8C

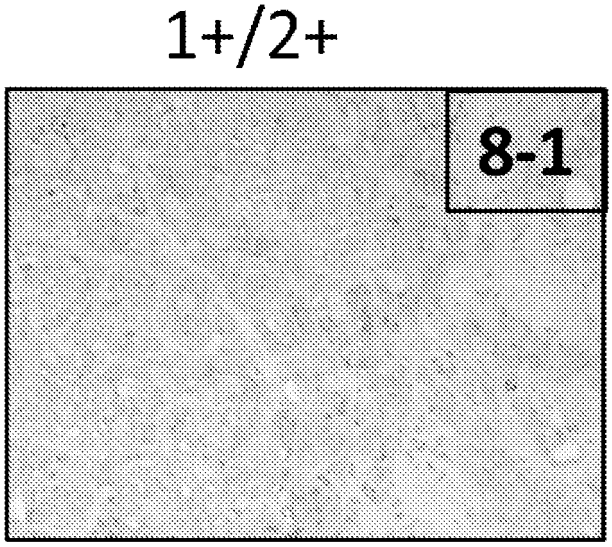


FIG. 8D

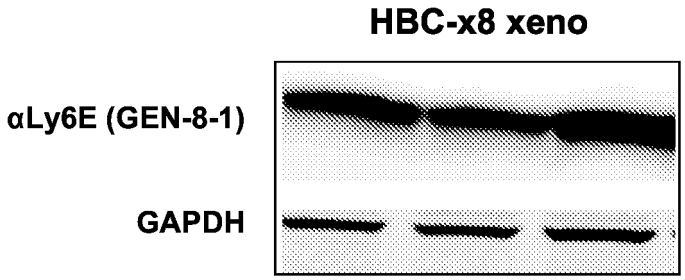


FIG. 8E

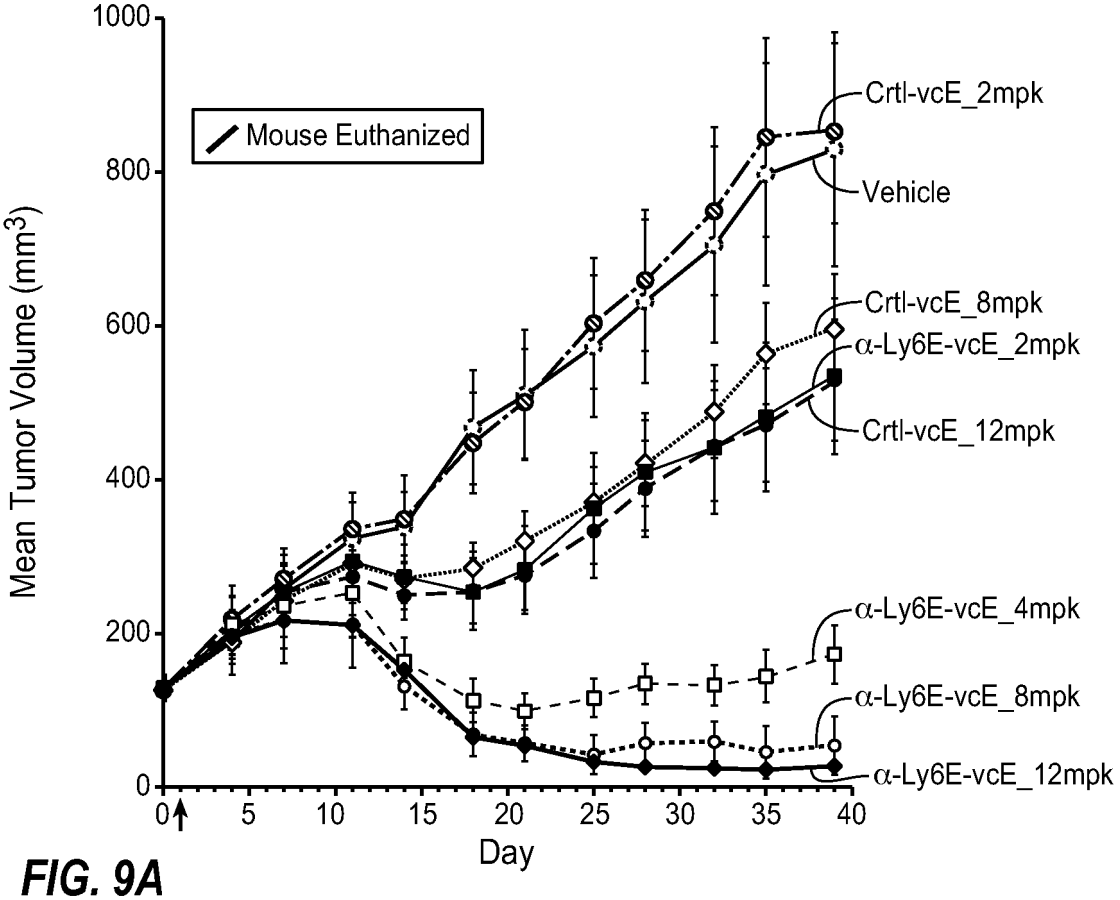


FIG. 9A

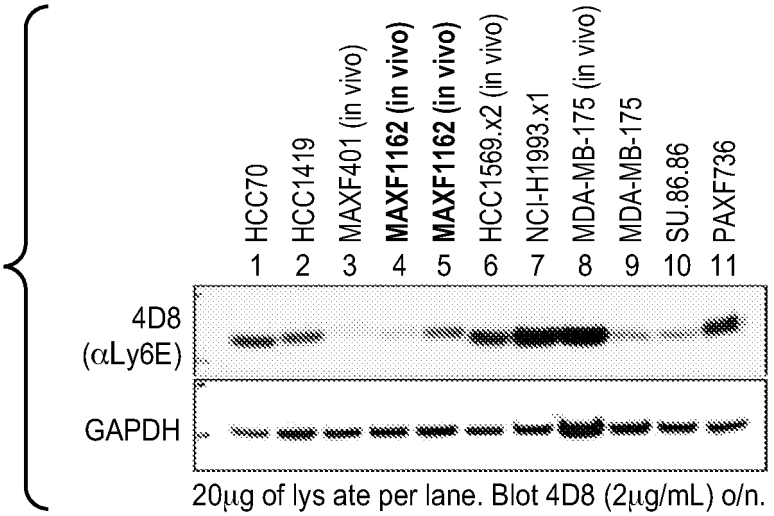


FIG. 9B

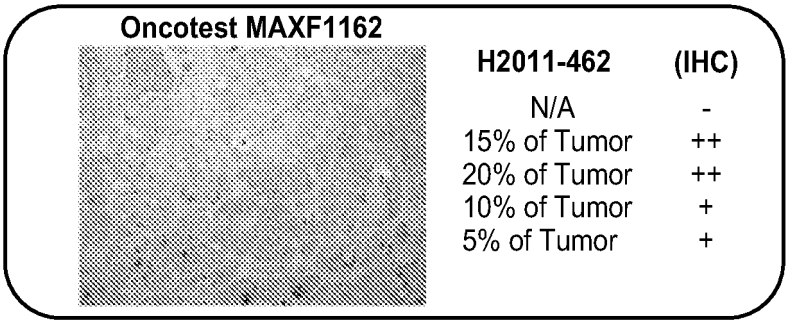


FIG. 9C

2+

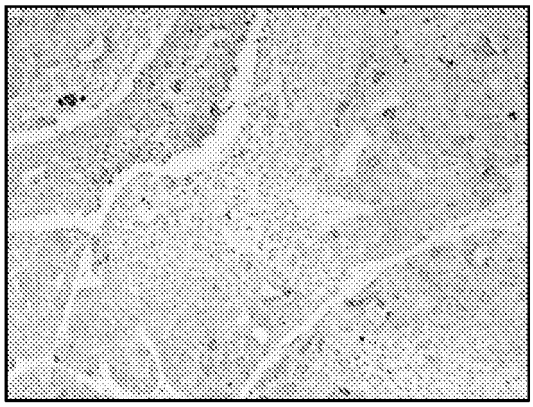


FIG. 9D

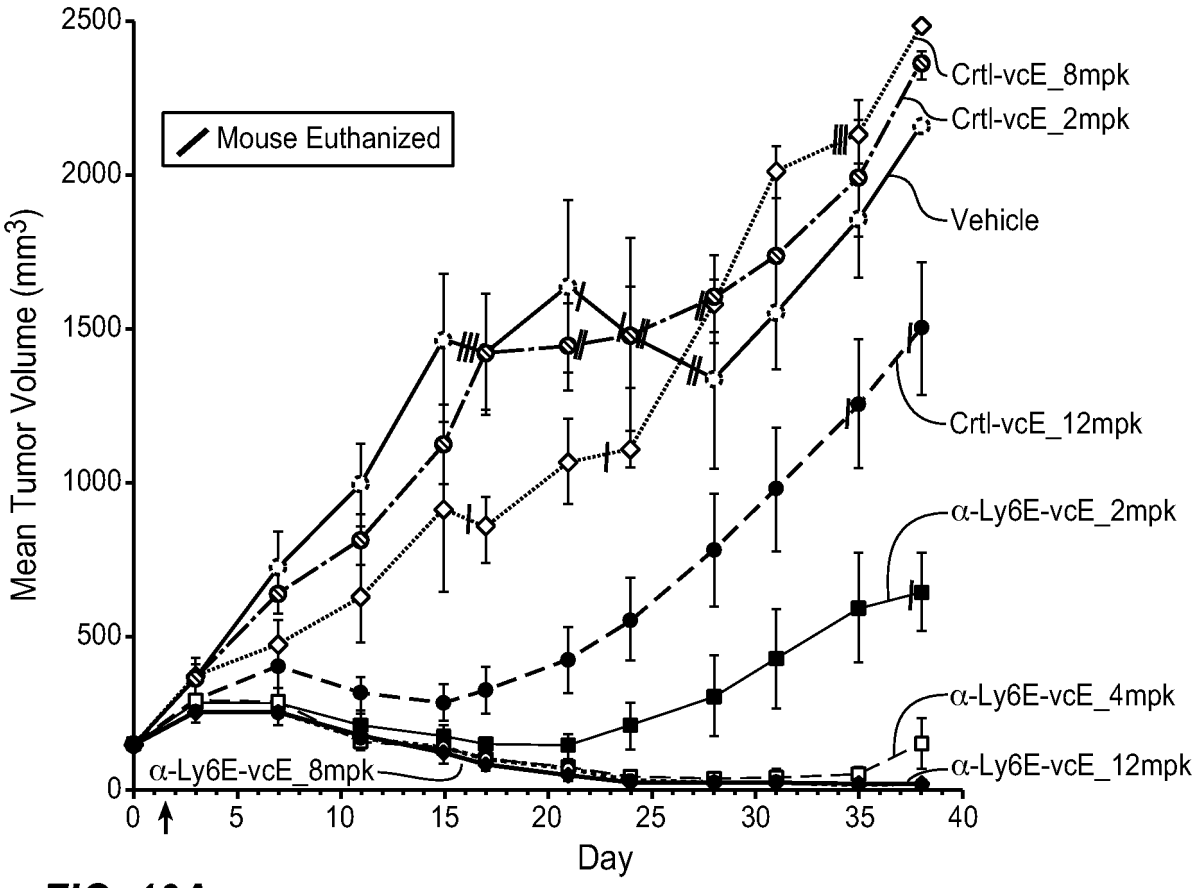


FIG. 10A

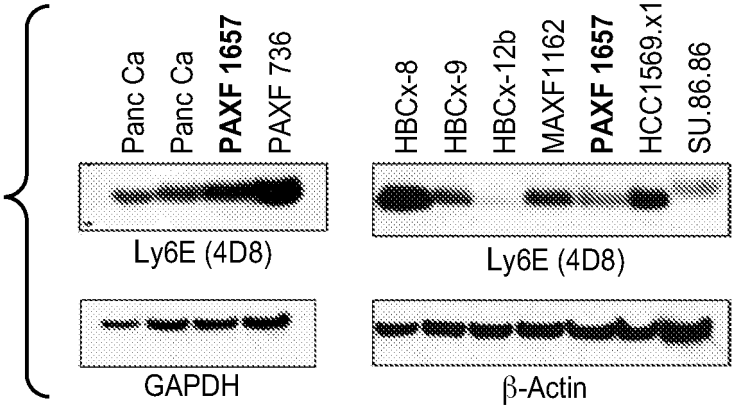
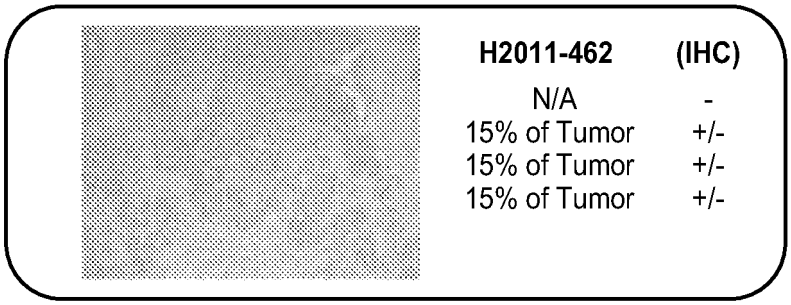


FIG. 10B



H2011-462	(IHC)
N/A	-
15% of Tumor	+/-
15% of Tumor	+/-
15% of Tumor	+/-

FIG. 10C

2+

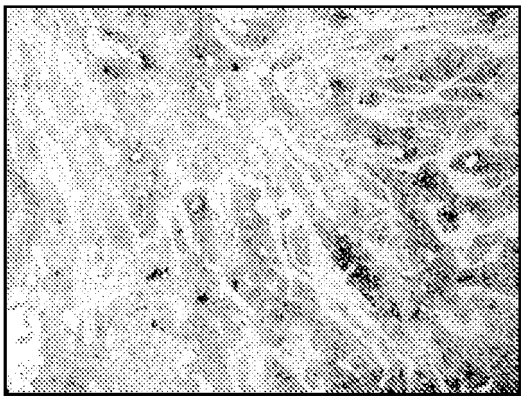


FIG. 10D