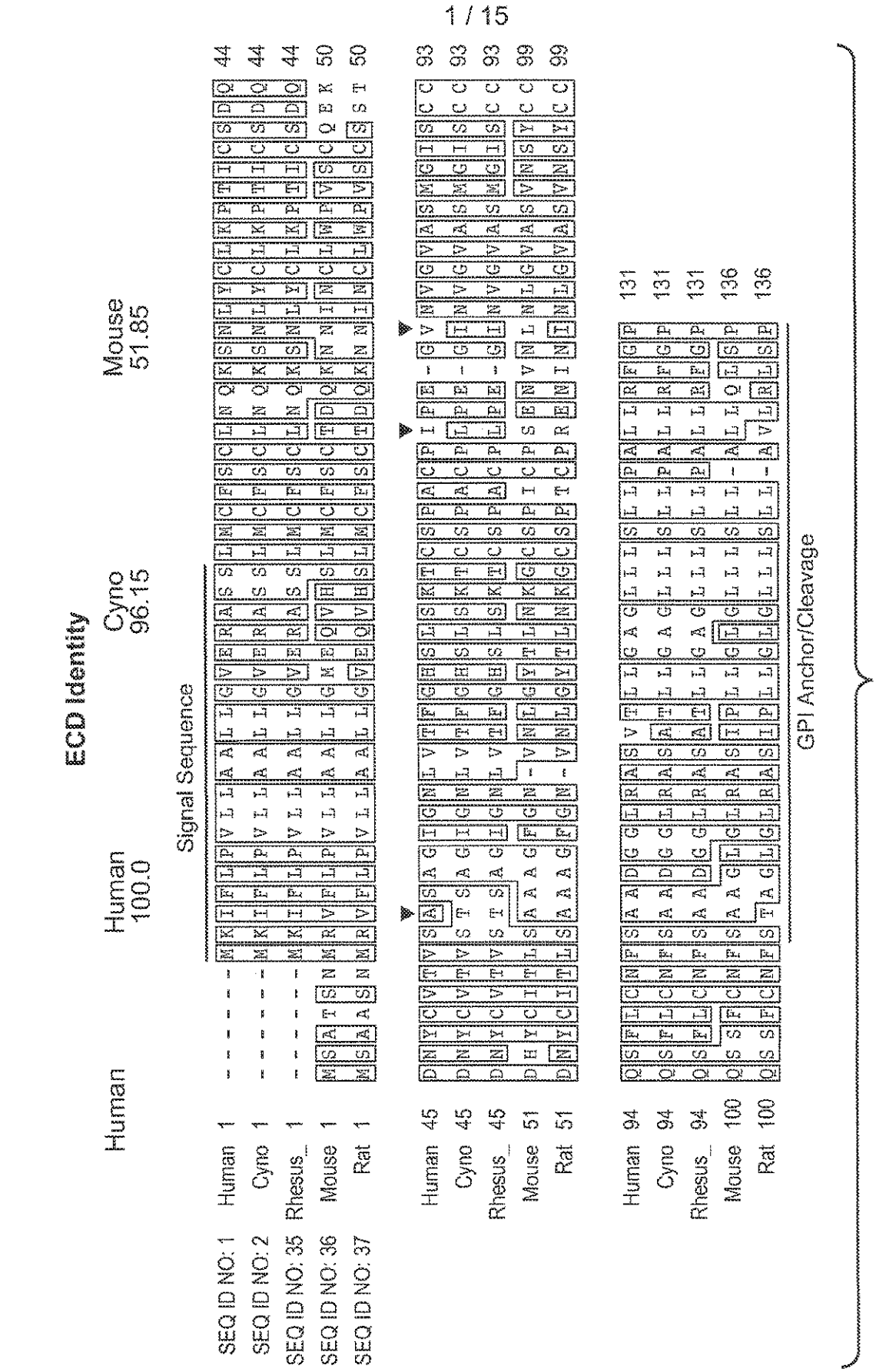

ECD Identity
Human
Human 100.0
Cyno 96.15
Mouse 51.85
Signal Sequence
SEQ ID NO: 1 Human 1
SEQ ID NO: 2 Cyno 1
SEQ ID NO: 35 Rhesus_ 1
SEQ ID NO: 36 Mouse 1
SEQ ID NO: 37 Rat 1
Human 45
Cyno 45
Rhesus_ 45
Mouse 51
Rat 51
Human 94
Cyno 94
Rhesus_ 94
Mouse 100
Rat 100
GPI Anchor/Cleavage

FIG. 1

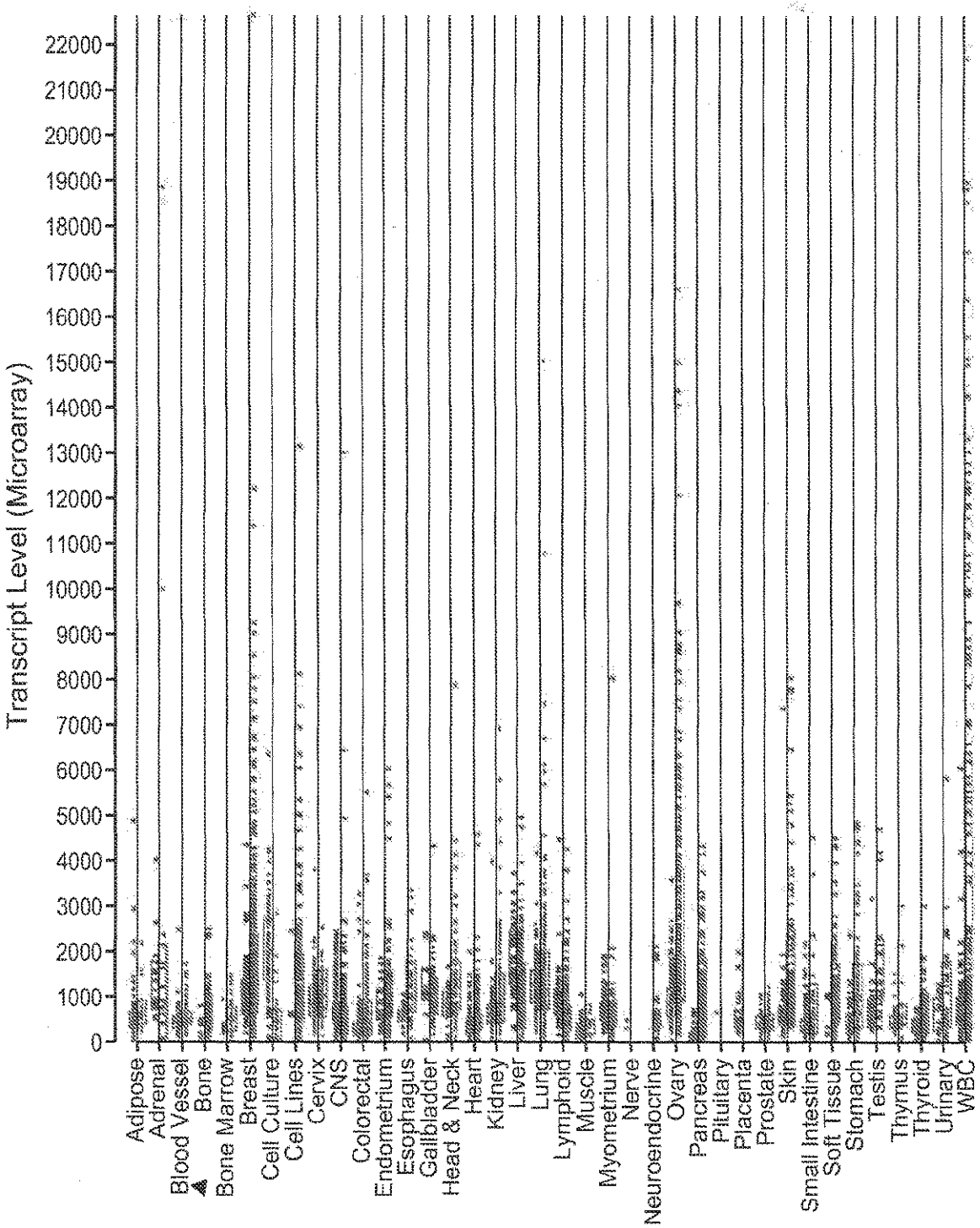

Transcript Level (Microarray)
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
11000
12000
13000
14000
15000
16000
17000
18000
19000
20000
21000
22000
Adipose
Adrenal
Blood Vessel
Bone
Bone Marrow
Breast
Cell Culture
Cell Lines
Cervix
CNS
Colorectal
Endometrium
Esophagus
Gallbladder
Head & Neck
Heart
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

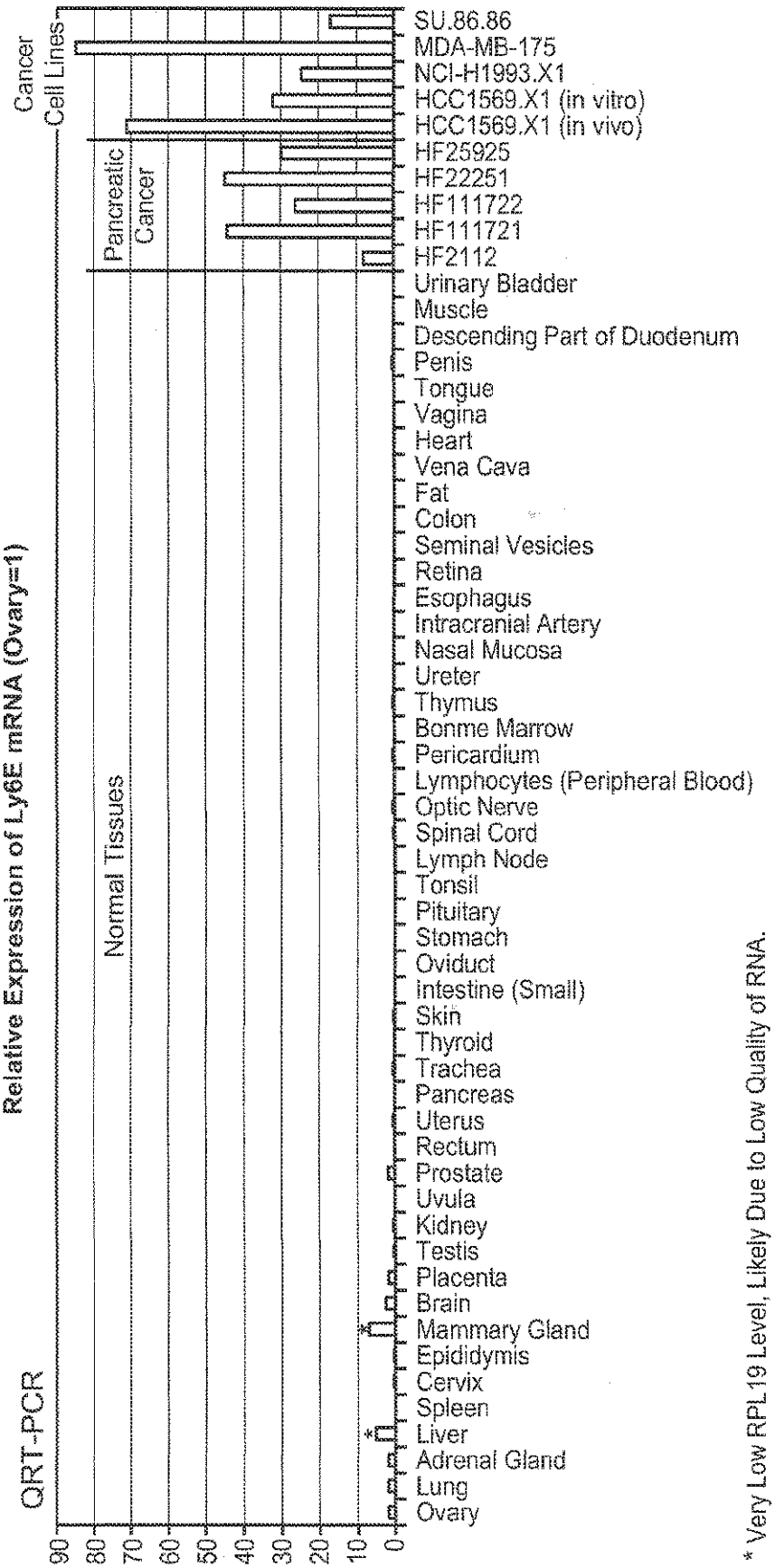

QRT-PCR
Relative Expression of Ly6E mRNA (Ovary=1)
Cancer Cell Lines
Normal Tissues
Pancreatic Cancer
SU.86.86
MDA-MB-175
NCI-H1993.X1
HCC1569.X1 (in vitro)
HCC1569.X1 (in vivo)
HF25925
HF22251
HF111722
HF111721
HF2112
Urinary Bladder
Muscle
Descending Part of Duodenum
Penis
Tongue
Vagina
Heart
Vena 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, Kappa:

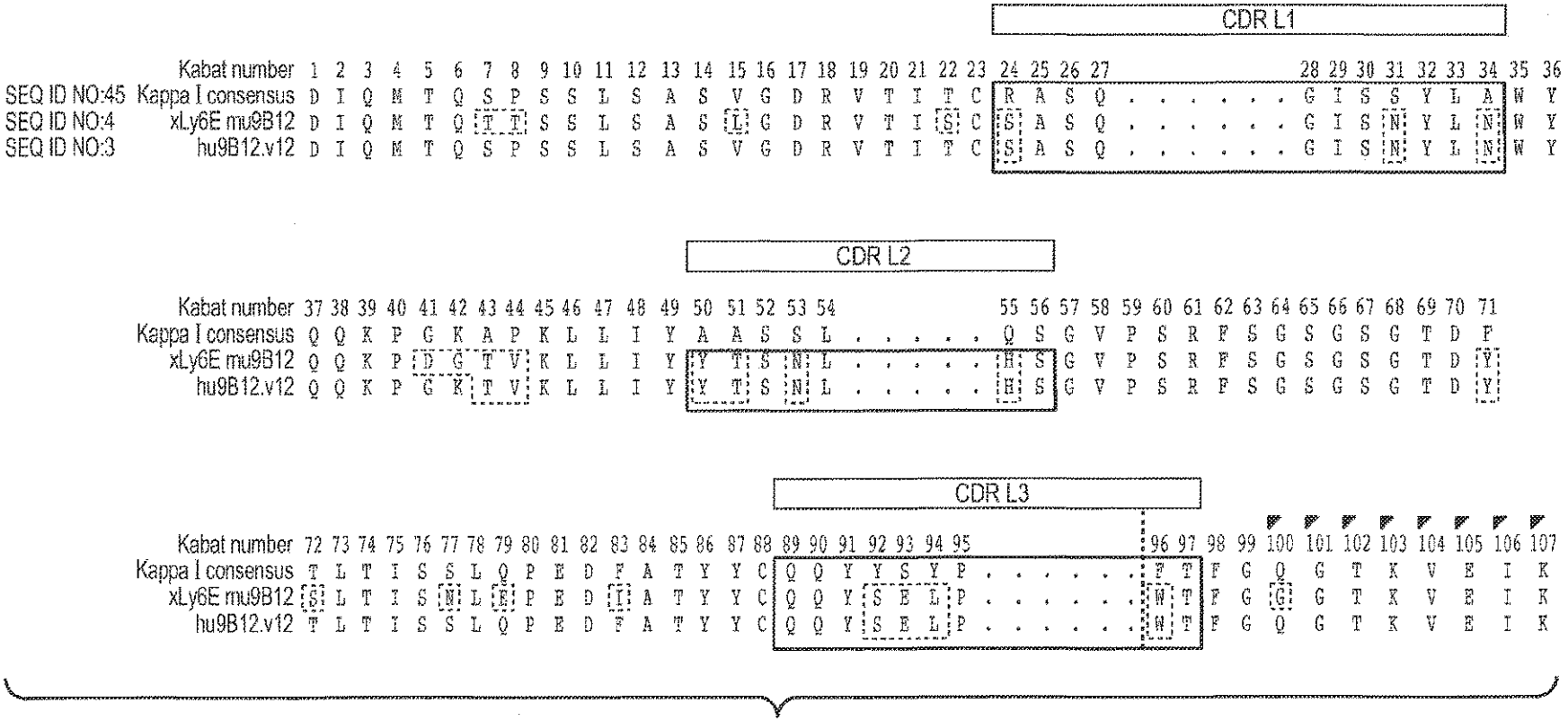


FIG. 4

Heavy Chain:

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	a	b	36	37	38	39	40	41	42	43	44
	Kabat number																																															
SEQ ID NO:46	VH2 consensus	E	V	Q	L	V	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	F	S	G	F	S	L	S	T	S	G	V	G	V	S	W	I	R	Q	P	P	G	K	A
SEQ ID NO:6	xL y6E mu9B12	Q	V	Q	L	K	E	S	G	P	G	L	V	A	P	S	Q	S	L	S	L	T	C	T	V	S	G	F	S	L	I	G	Y	G	V	N	.	.	W	V	R	Q	P	P	G	K	G
SEQ ID NO:5	hu9B12.v12	E	V	Q	L	V	E	S	G	P	A	L	V	K	P	T	Q	T	L	T	L	T	C	T	V	S	G	F	S	L	T	G	Y	G	V	N	.	.	W	I	R	Q	P	P	G	K	A

CDR H1

		45	46	47	48	49	50	51	52		53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	A	B	C	83	84
	Kabat number																																											
	VH2 consensus	L	E	W	I	A	L	I	D	.	.	.	W	N	D	D	K	R	Y	S	P	S	L	K	S	R	L	T	I	S	K	D	T	S	K	N	Q	V	V	L	T	M	T	N	M	D	P
	xL y6E mu9B12	L	E	W	I	G	M	I	N	.	.	.	G	D	G	S	T	D	Y	N	P	S	A	L	K	S	R	L	T	I	S	K	D	N	S	K	S	Q	V	F	L	K	M	N	S	L	Q	T
	hu9B12.v12	L	E	W	I	G	M	I	N	.	.	.	G	D	G	S	T	D	Y	N	P	S	A	L	K	S	R	L	T	I	S	K	D	T	S	K	N	Q	V	V	L	T	M	T	N	M	Q	P

CDR H2

		85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	A	B	C																D	101	102	103	104	105	106	107	108	109	110	111	112	113
	Kabat number																																															
	VH2 consensus	V	D	T	A	T	Y	Y	C	A	R	D	T	A	A	Y	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	F	D	Y	W	G	Q	G	T	L	V	T	V	S	S
	xL y6E mu9B12	D	D	T	A	R	Y	Y	C	A	R	D	Y	Y	F	N	Y	A	S	W	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	F	A	Y	W	G	Q	G	T	L	V	T	V	S	S
	hu9B12.v12	V	D	T	A	T	Y	Y	C	A	R	D	Y	Y	F	N	Y	A	S	W	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	F	A	Y	W	G	Q	G	T	L	V	T	V	S	S

CDR H3

FIG. 5

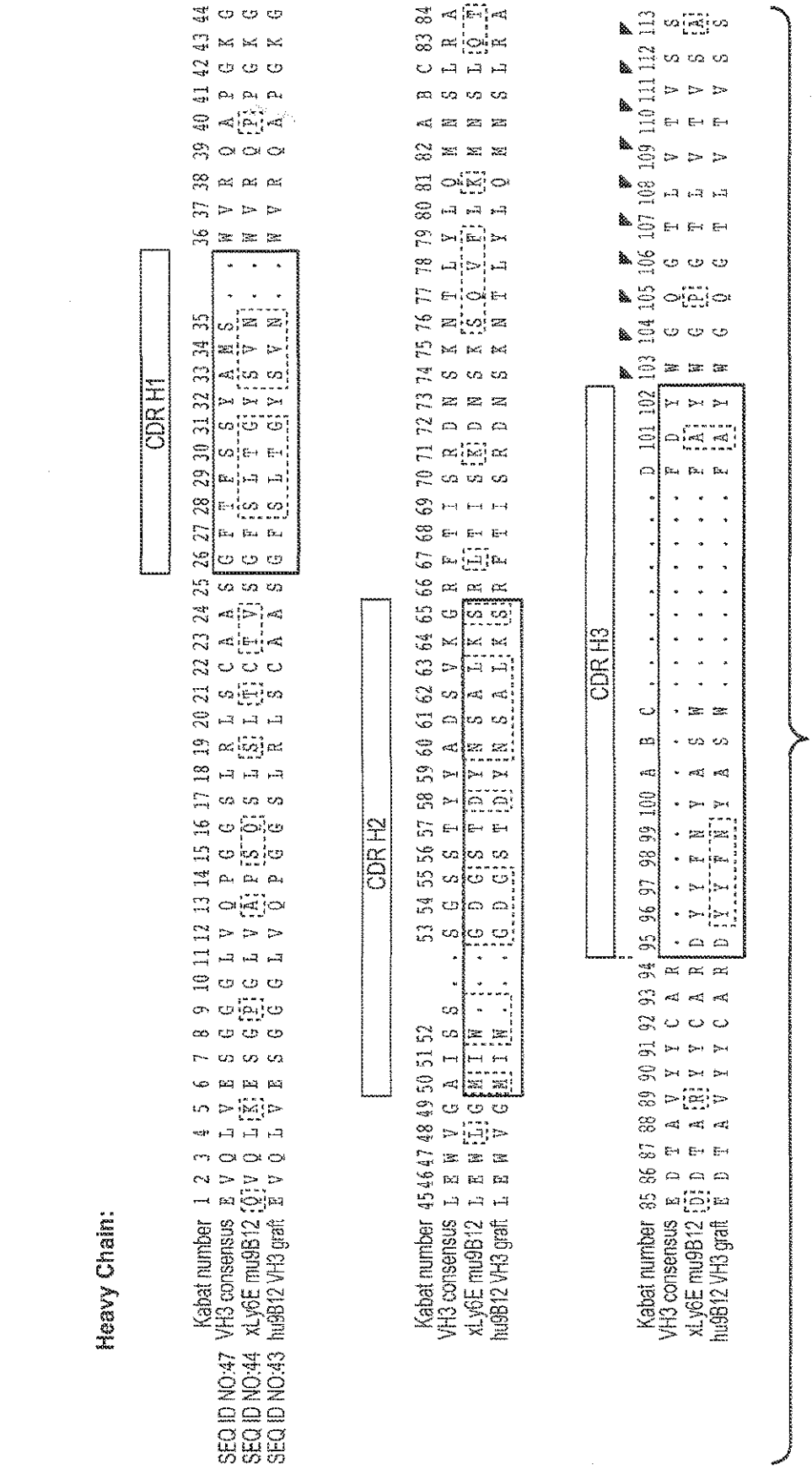

Heavy Chain:
CDR H1
CDR H2
CDR H3
Kabat number
VH3 consensus
SEQ ID NO:47
xL/y6E mu9B12
SEQ ID NO:44
hu9B12 VH3 graft
SEQ ID NO:43

FIG. 6

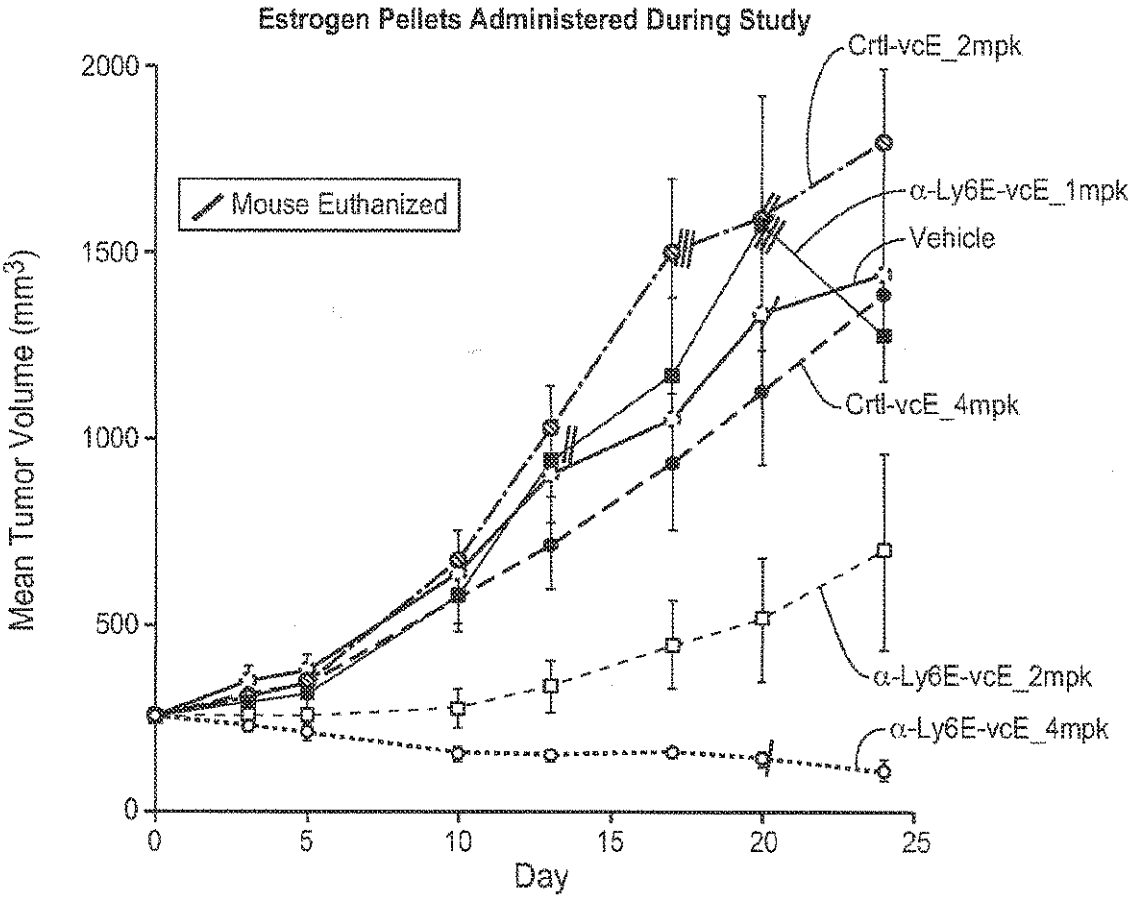

Estrogen Pellets Administered During Study
Mean Tumor Volume (mm3)
2000
1500
1000
500
0
0
5
10
15
20
25
Day
Mouse Euthanized
Crtl-vcE_2mpk
α-Ly6E-vcE_1mpk
Vehicle
Crtl-vcE_4mpk
α-Ly6E-vcE_2mpk
α-Ly6E-vcE_4mpk

FIG. 7A

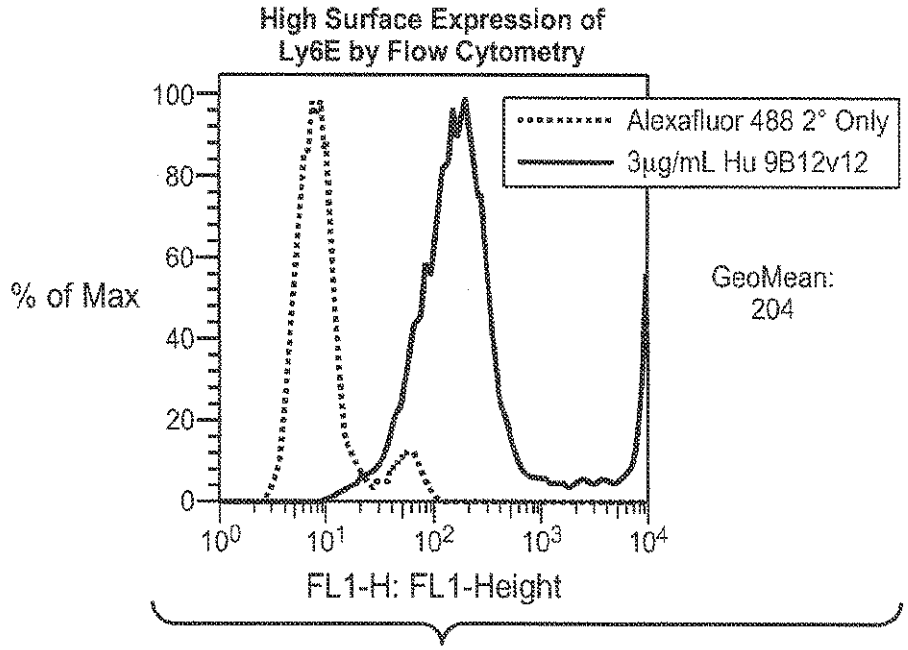

High Surface Expression of
Ly6E by Flow Cytometry
% of Max
100
80
60
40
20
0
10^0
10^1
10^2
10^3
10^4
FL1-H: FL1-Height
Alexafluor 488 2° Only
3µg/mL Hu 9B12v12
GeoMean:
204

FIG. 7B

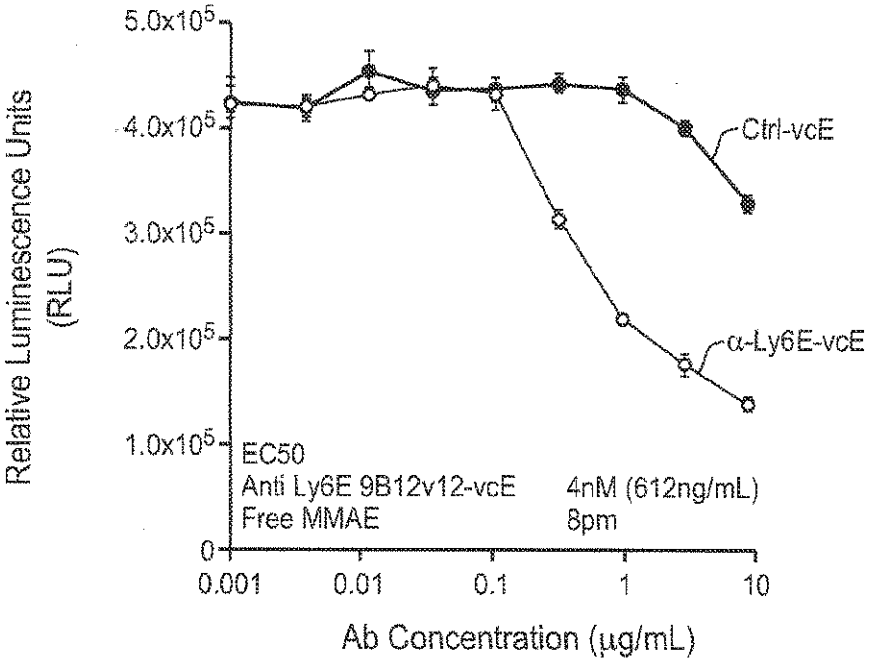

5.0x10^5
4.0x10^5
3.0x10^5
2.0x10^5
1.0x10^5
0
Relative Luminescence Units (RLU)
Ctrl-vcE
α-Ly6E-vcE
EC50
Anti Ly6E 9B12v12-vcE
Free MMAE
4nM (612ng/mL)
8pm
0.001
0.01
0.1
1
10
Ab Concentration (μg/mL)

FIG. 7C

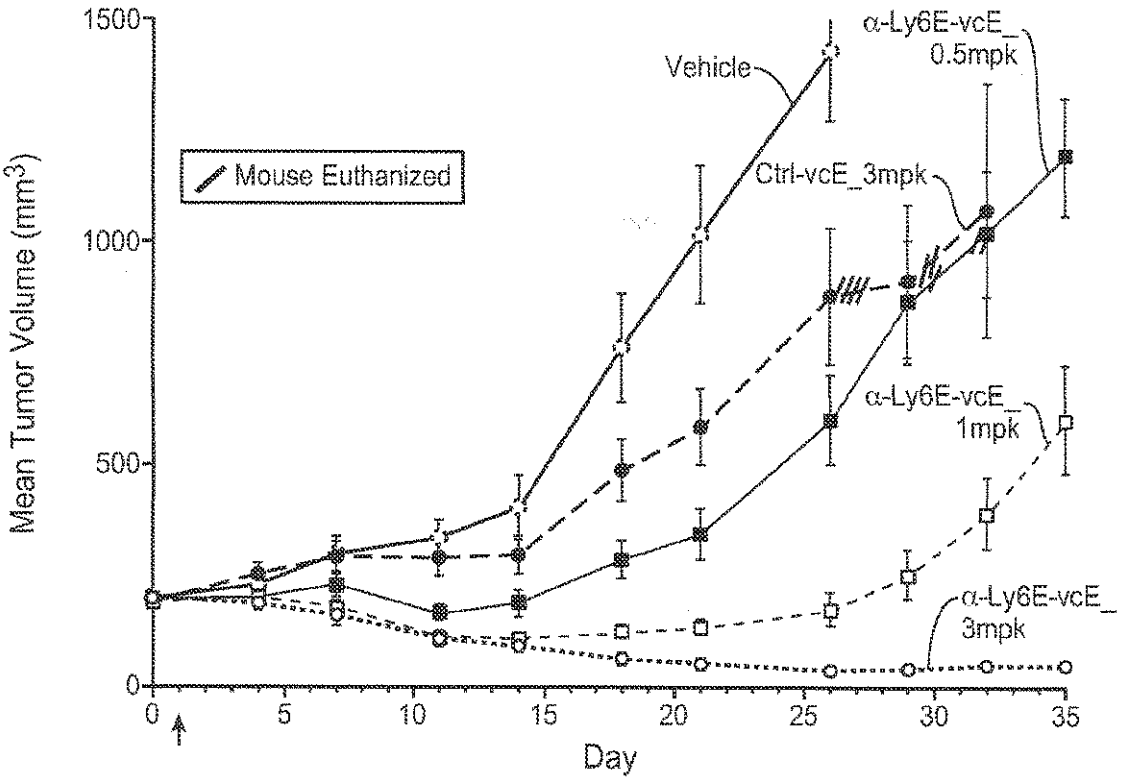

1500
1000
500
0
Mean Tumor Volume (mm^3)
Mouse Euthanized
Vehicle
α-Ly6E-vcE_ 0.5mpk
Ctrl-vcE_3mpk
α-Ly6E-vcE_ 1mpk
α-Ly6E-vcE_ 3mpk
0
5
10
15
20
25
30
35
Day

FIG. 8A

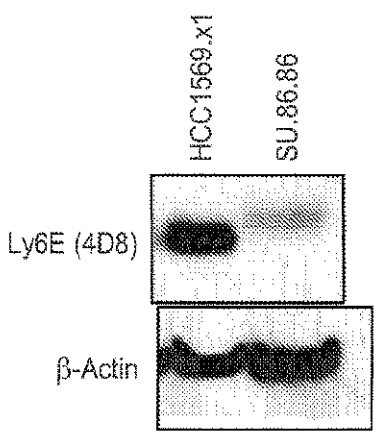


FIG. 8B

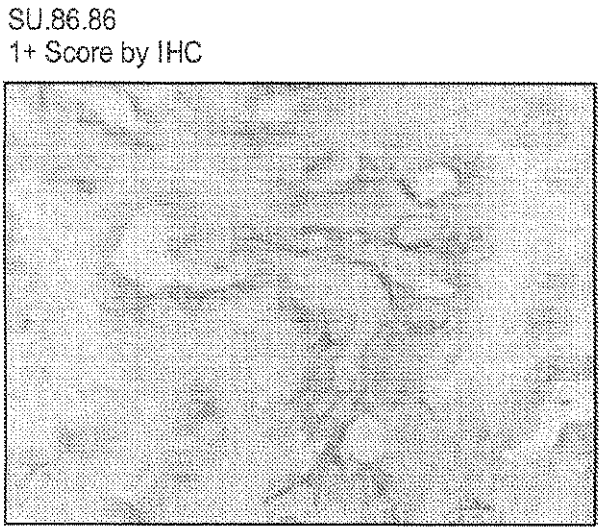


FIG. 8D

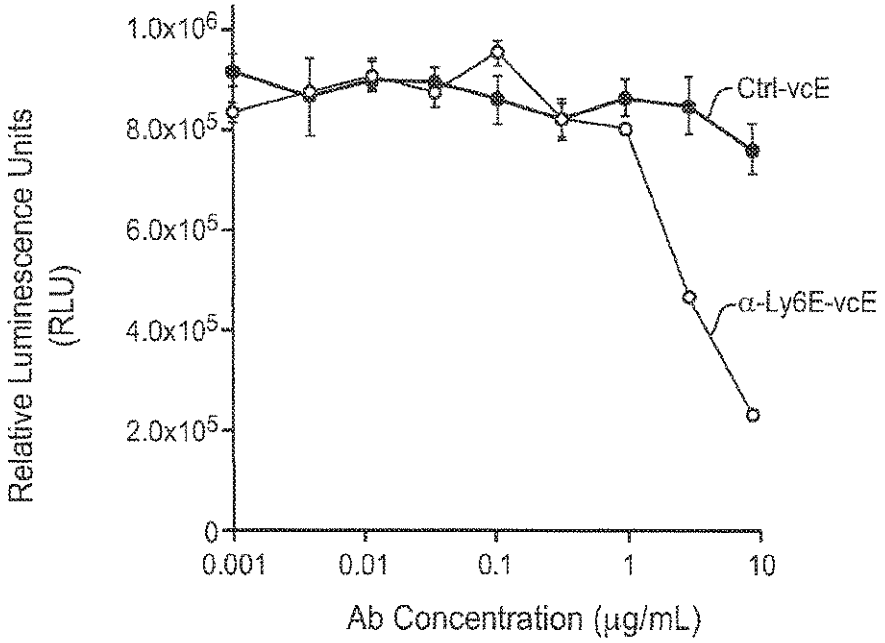


FIG. 8C

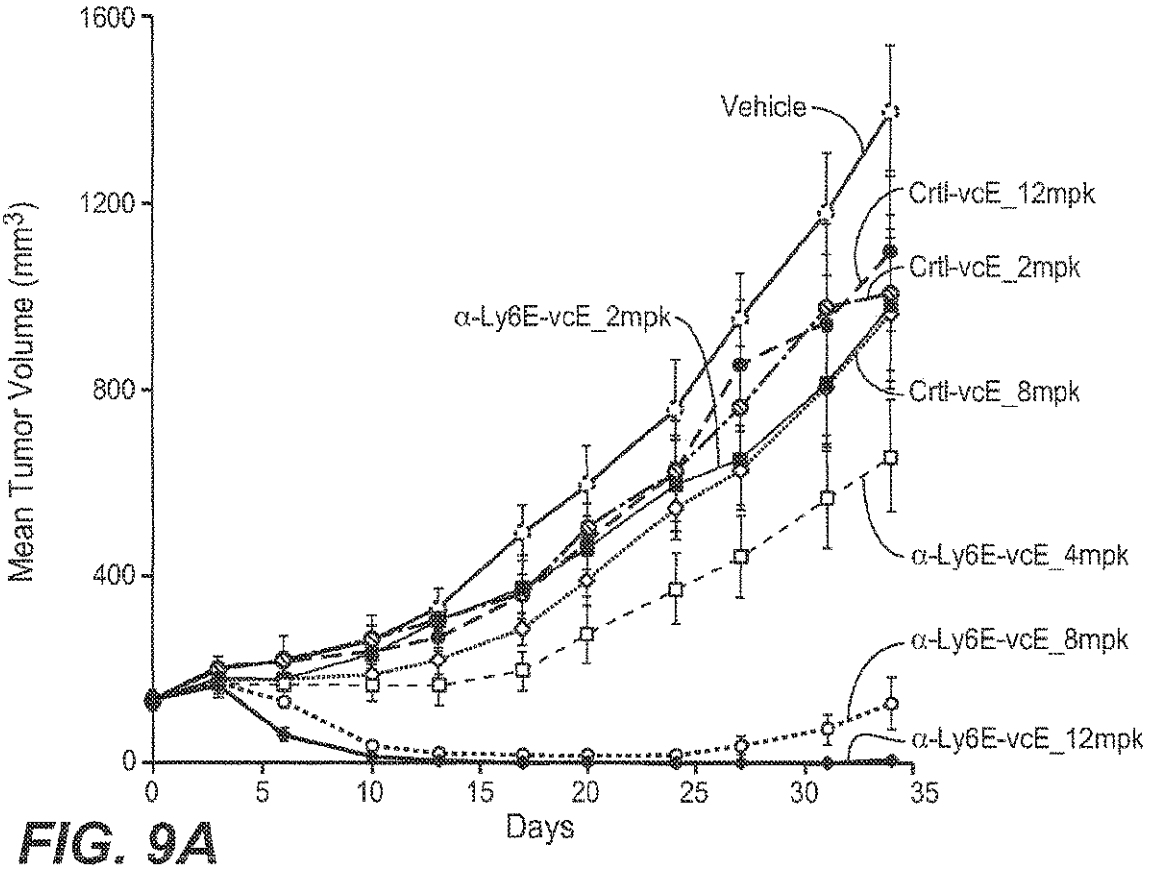


FIG. 9A

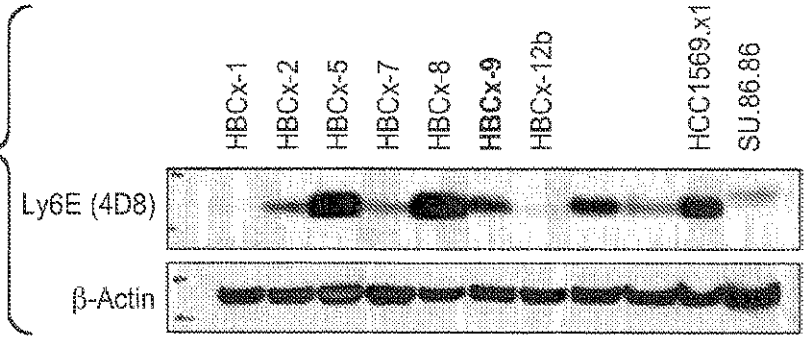


FIG. 9B

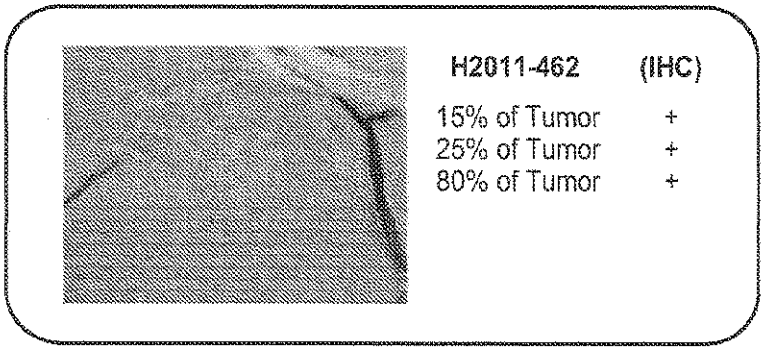


FIG. 9C

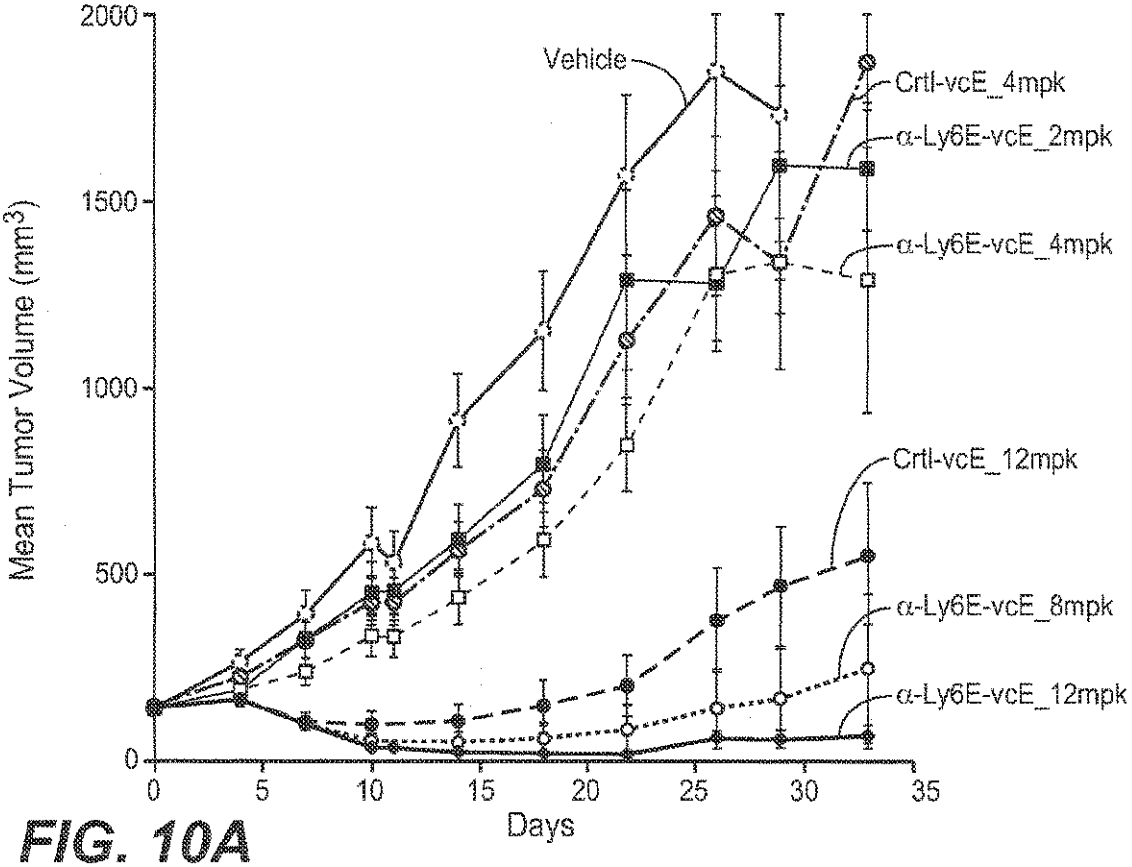


FIG. 10A

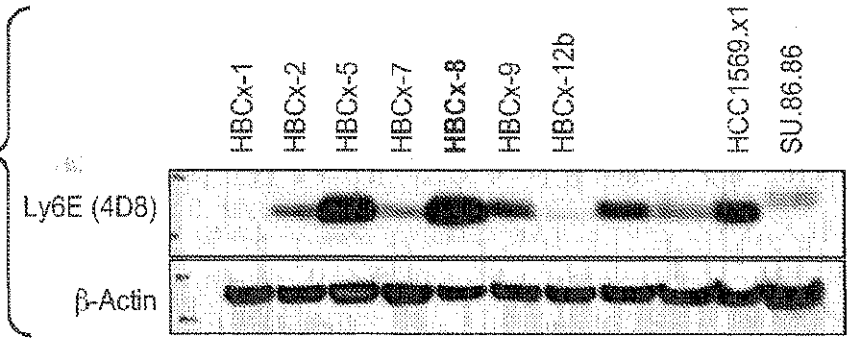


FIG. 10B

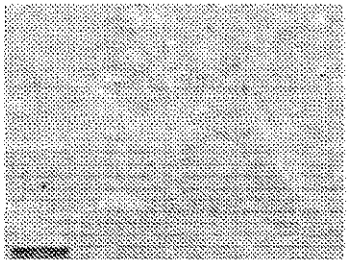


FIG. 10C

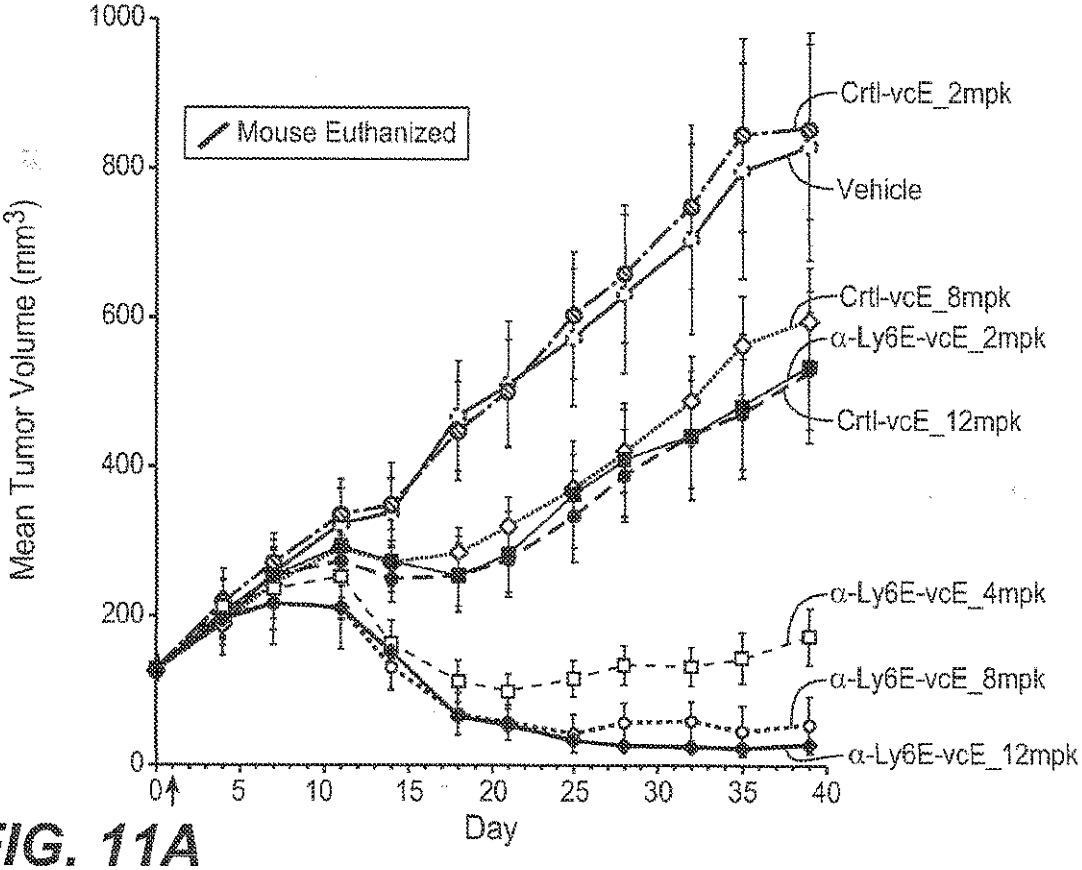


FIG. 11A

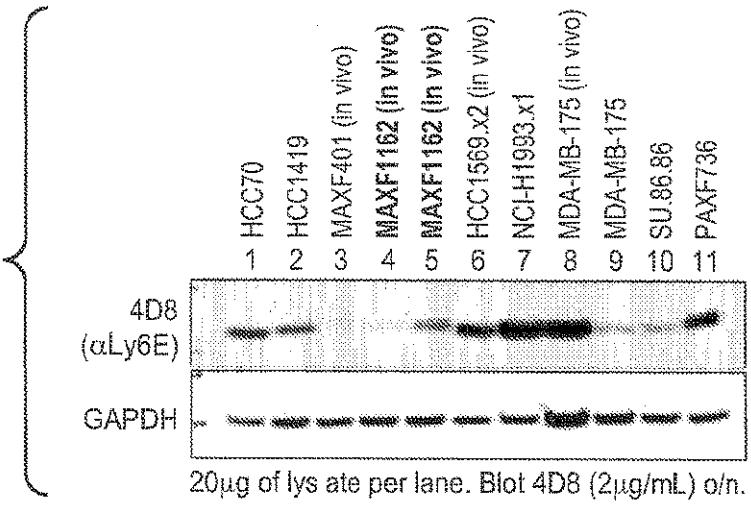


FIG. 11B

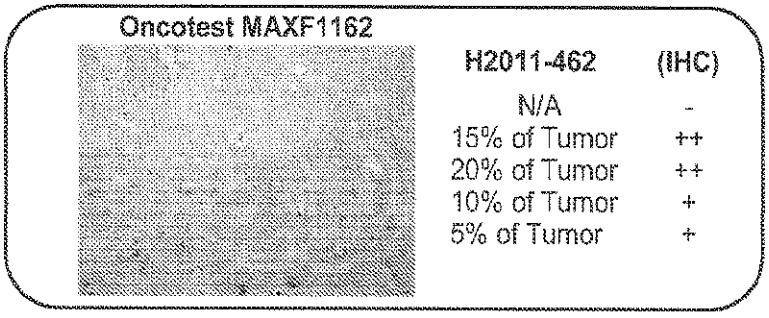


FIG. 11C

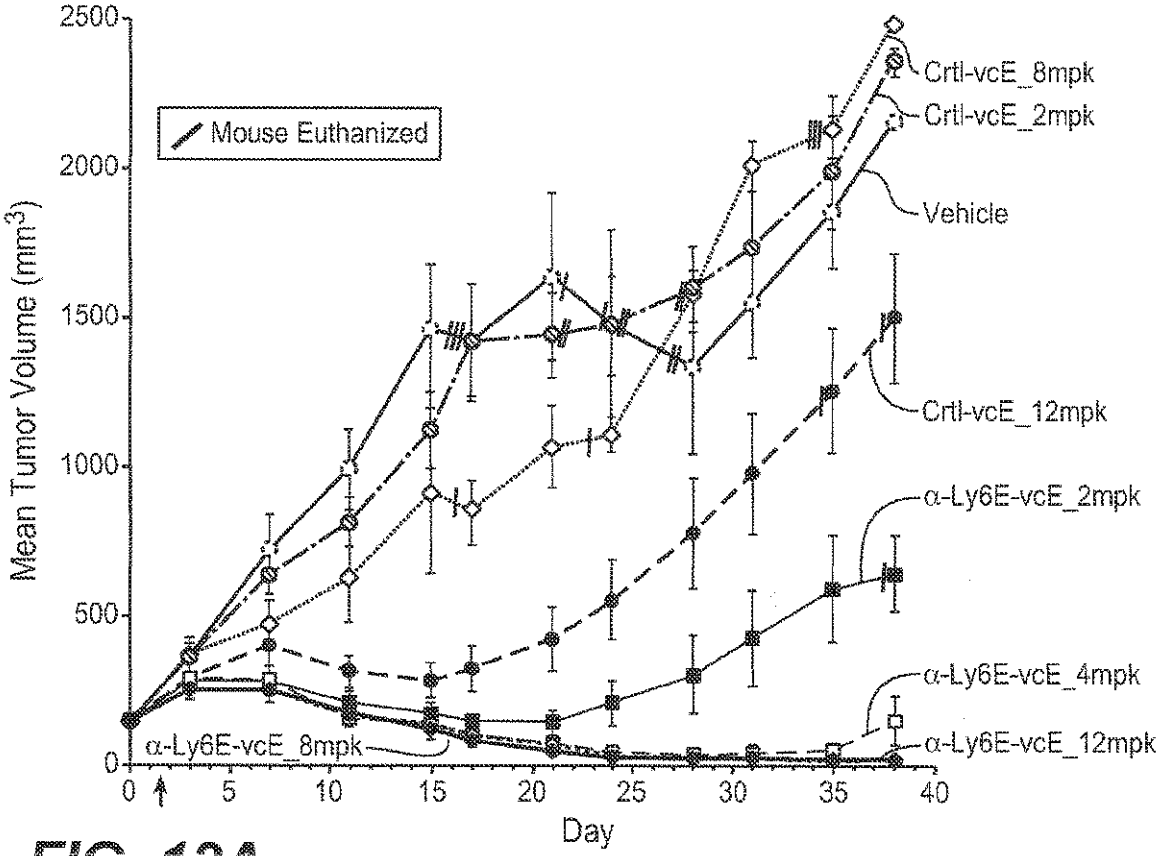


FIG. 12A

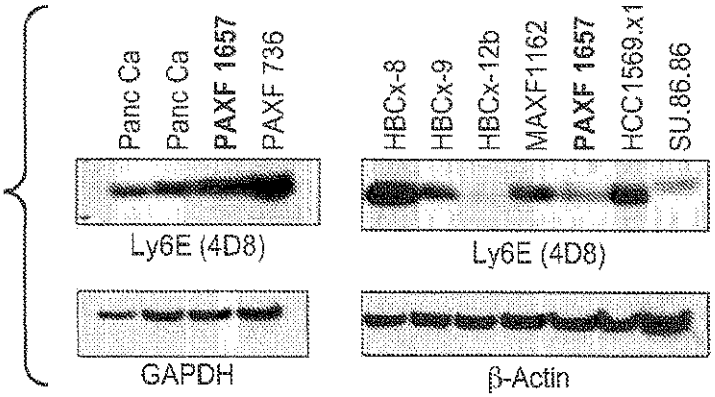
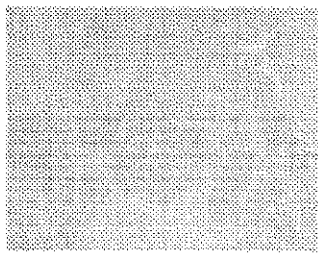


FIG. 12B



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

FIG. 12C

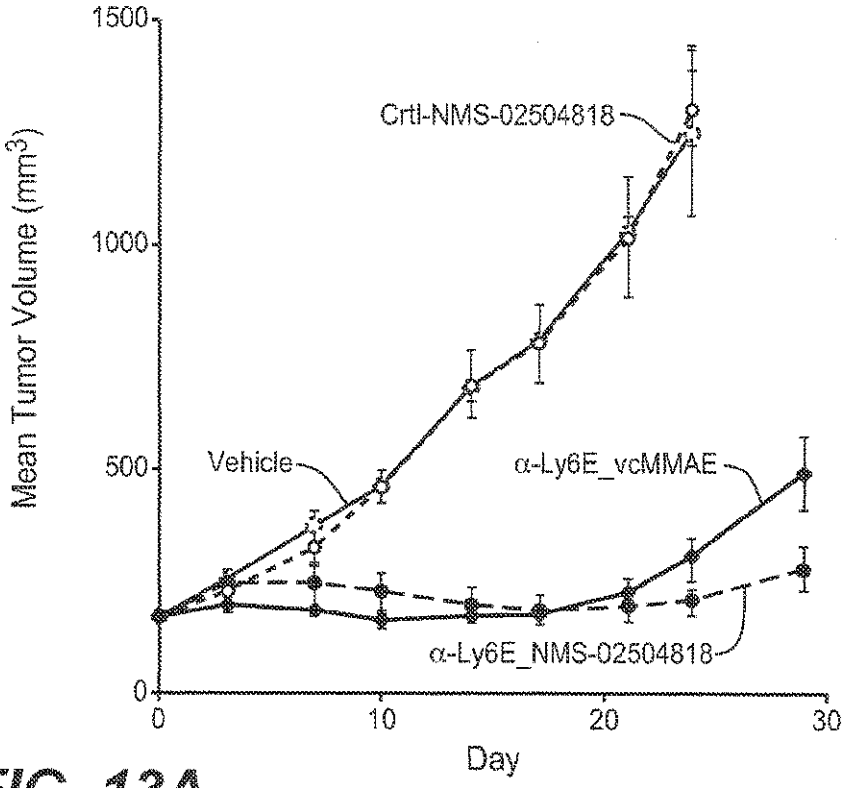


FIG. 13A

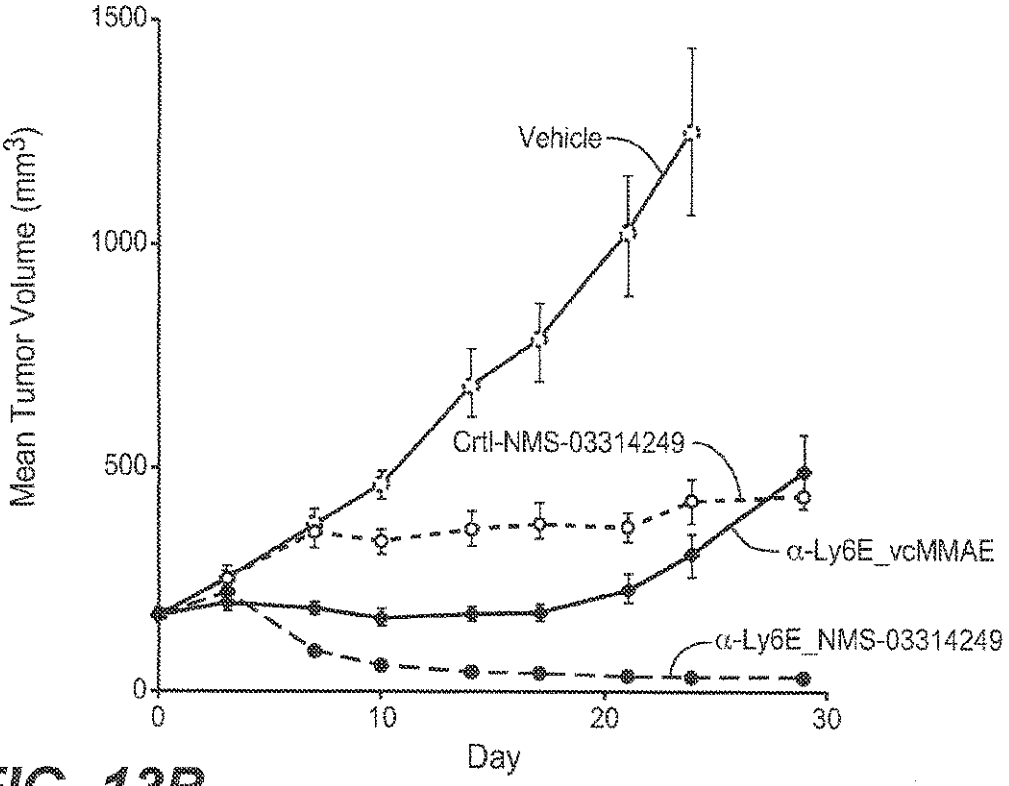


FIG. 13B

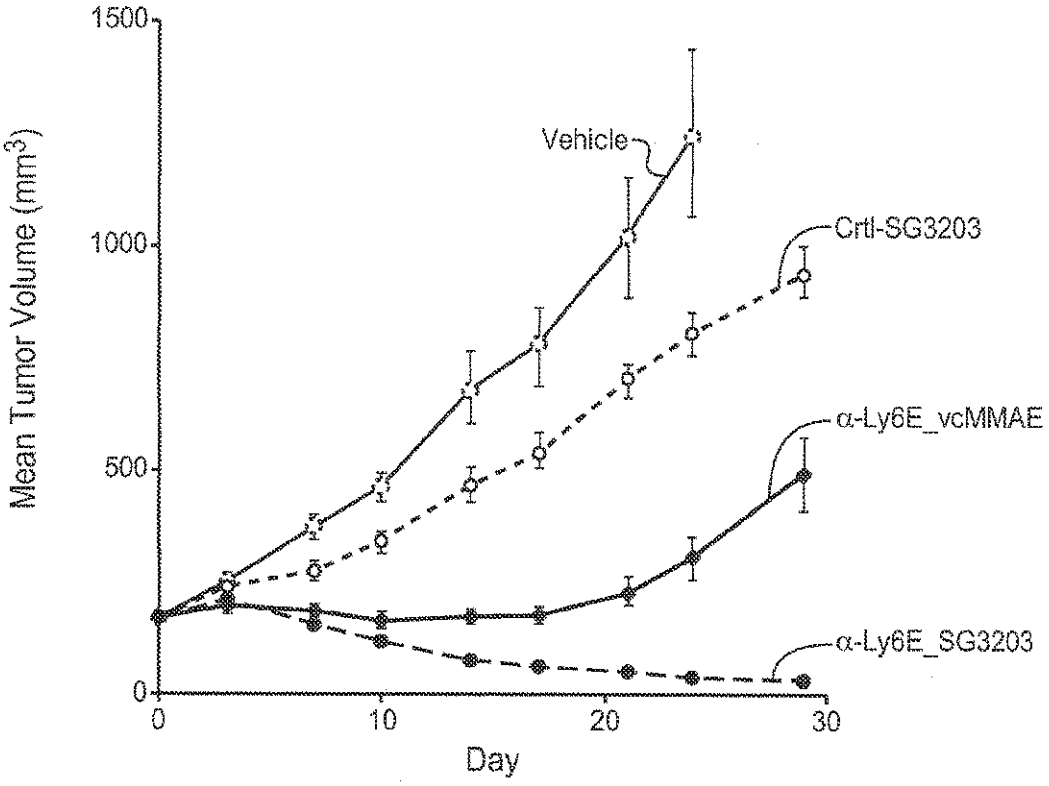


FIG. 13C

SU.86.86
1+ Score by IHC

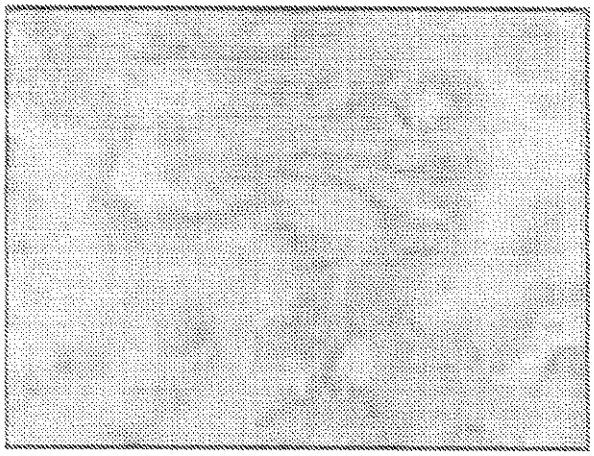


FIG. 13D