

Figure 1A

Light Chain				
Kabat #	muMov19	DPK19	huMov19v1.00	huMov19v1.60
1	D	D	D	D
3	E	<u>V</u>	<u>V</u>	<u>V</u>
5	T	T	T	T
9	A	<u>L</u>	<u>L</u>	<u>L</u>
15	L	L	L	L
17	Q	Q	Q	Q
18	R	<u>P</u>	<u>P</u>	<u>P</u>
40	P	P	P	P
41	G	G	G	G
42	Q	Q	Q	Q
45	K	<u>R</u>	<u>R</u>	<u>R</u>
57	G	G	G	G
60	T	<u>D</u>	<u>D</u>	<u>D</u>
67	S	S	S	S
70	D	D	D	D
74*	N	K	N	<u>T*</u>
76	H	<u>S</u>	<u>S</u>	<u>S</u>
80	E	<u>A</u>	<u>A</u>	<u>A</u>
81	E	E	E	E
100	G	G	G	G
103	K	K	K	K
105	E	E	E	E
107	K	K	K	K
108	R	R	R	R

Figure 1B

Heavy Chain			
Kabat #	muMov19	8m27	huMov19
1	Q	Q	Q
3	Q	Q	Q
5	Q	<u>V</u>	<u>V</u>
9	A	A	A
11	L	<u>V</u>	<u>V</u>
13	K	K	K
14	P	P	P
19	K	K	K
23	K	K	K
28	S	<u>T</u>	<u>T</u>
41	H	<u>P</u>	<u>P</u>
42	G	G	G
43	K	<u>Q</u>	<u>Q</u>
61	Q	Q	Q
62	N	<u>K</u>	<u>K</u>
64	K	<u>Q</u>	<u>Q</u>
65	D	<u>G</u>	<u>G</u>
73	K	K	K
74	S	S	S
82B	S	S	S
84	S	S	S
85	E	E	E
105	Q	Q	Q
112	S	S	S
113	S	S	S

Figure 1C and 1D

C

FR1-21 V _L		
Kabat position	Murine residue	Human residue
1	D	D
3	V	V
9	S	S
10	Y	S
15	L	V
18	R	R
40	P	P
41	G	G
42	N	K
45	R	K
57	G	G
60	S	S
67	S	S
80	Q	Q
81	T	P
100	S	Q
103	K	K
105	E	E
107	K	K
108	R	R

D

FR1-21 V _H		
Kabat position	Murine residue	Human residue
1	E	E
3	K	Q
11	L	V
13	K	K
14	P	P
17	S	S
19	K	K
41	P	P
42	D	G
43	K	K
44	R	G
60	P	S
61	D	P
63	V	F
64	K	Q
65	G	G
73	N	K
74	A	S
75	K	K
83	K	K
84	S	A
85	E	E
105	Q	Q
112	S	S

Figure 2

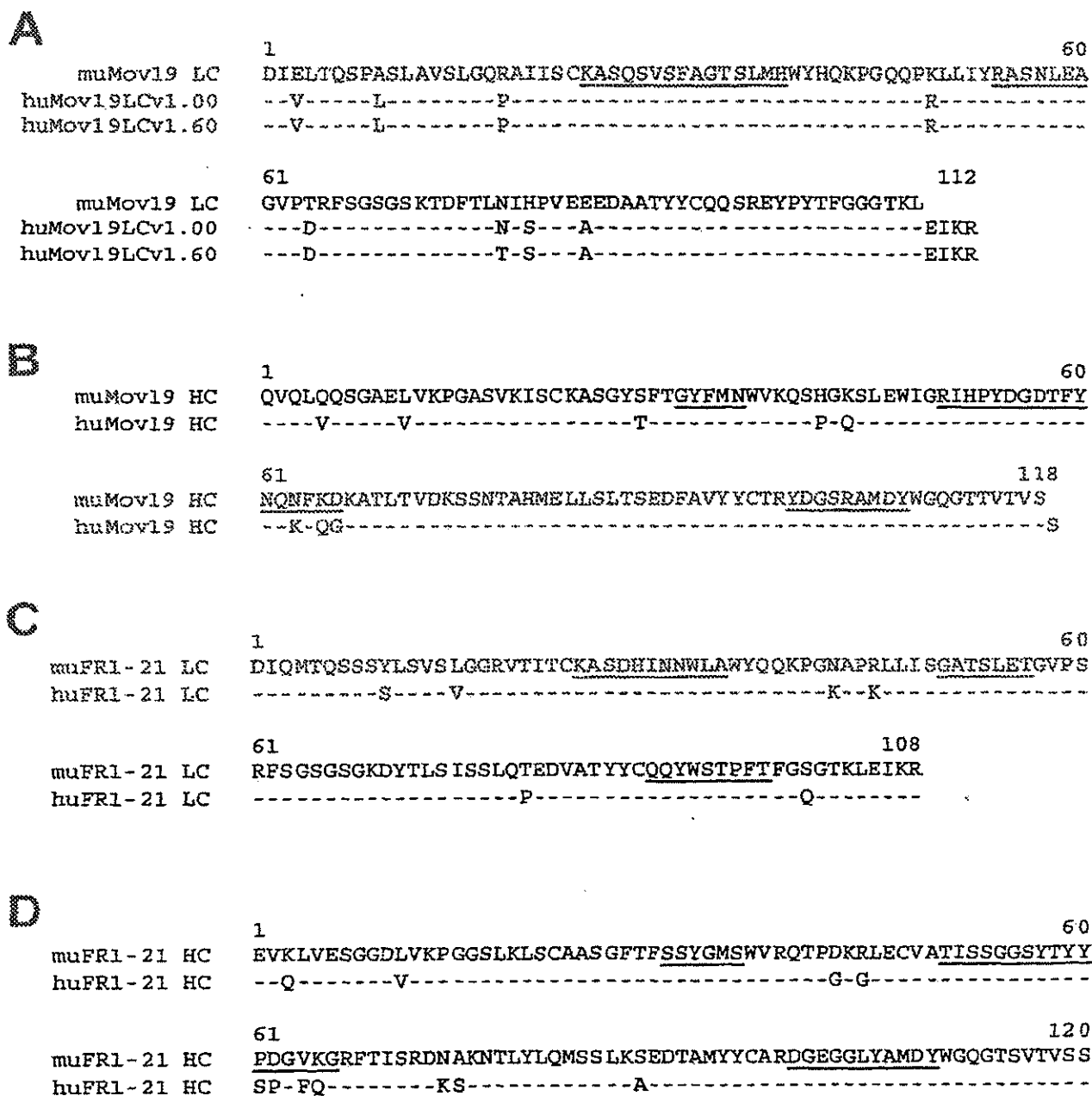


Figure 3

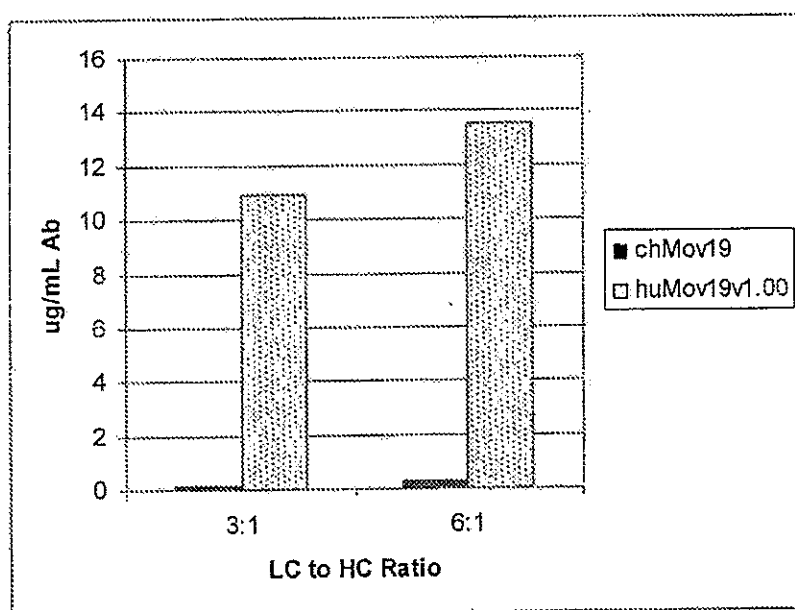


Figure 4

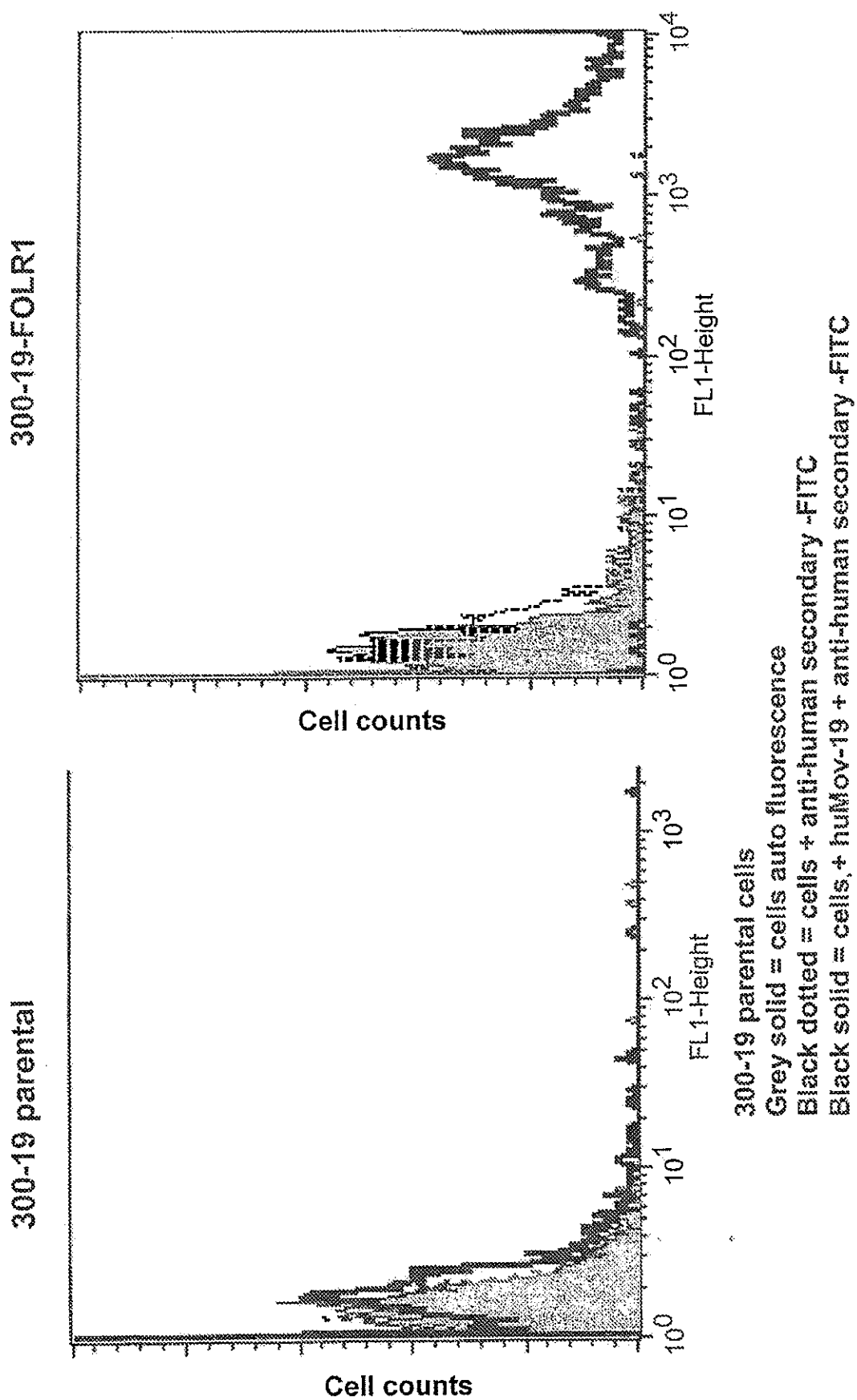


Figure 5

Clone	Isotype	Affinity on SKOV3 cells, Kd, nM	Cytotoxic activity of PEG4-mal-DM4 conjugates on KB cells, IC50, nM (continuous exposure)
HuMov19	IgG1	0.07	0.15
muFR1-9	IgG1	0.13	0.22
muFR1-13	IgG2b	0.66	0.15
muFR1-22	IgG2a	0.69	0.14
muFR1-23	IgG2a	0.55	0.13
huFR1-23	IgG1	0.60	
muFR1-21	IgG2b	0.07	0.10
huFR1-21	IgG1	0.07	0.10

Figure 6

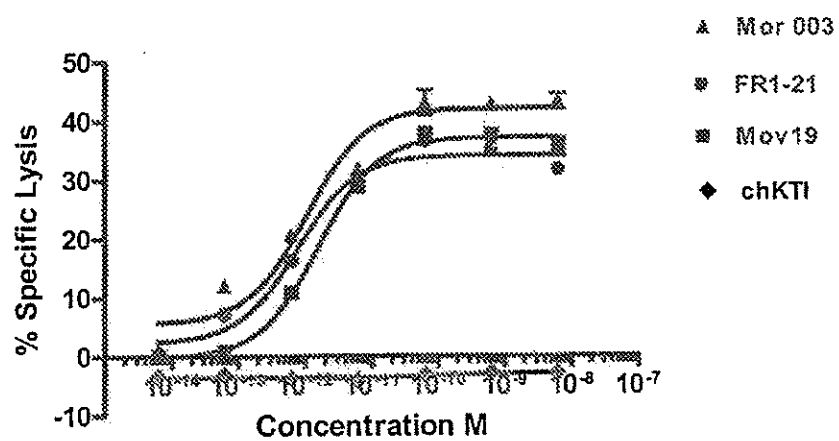


Figure 7

Cytotoxic activity of
huFR1-21-PEG4-mal-DM4 and huMov19-PEG4-mal-DM4
on KB Cells
continuous exposure, WST8

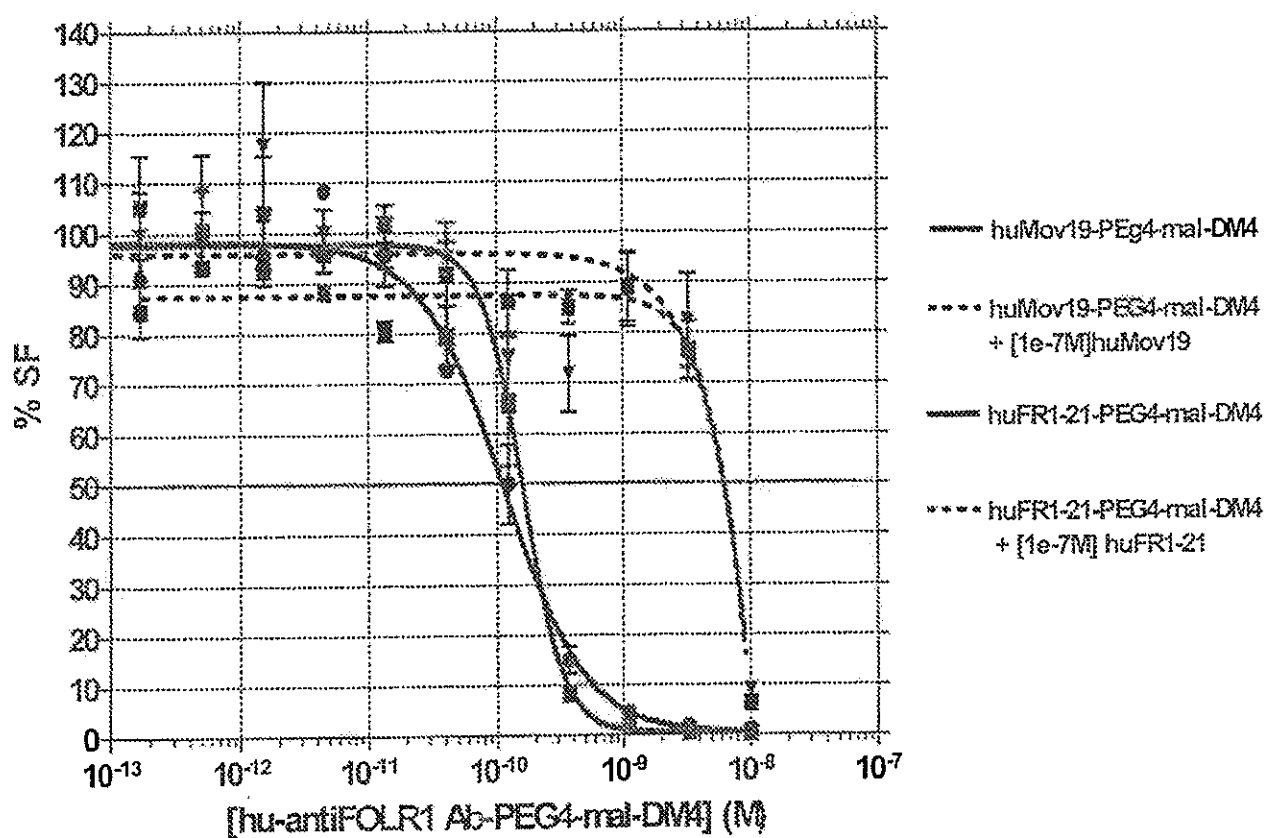


Figure 8

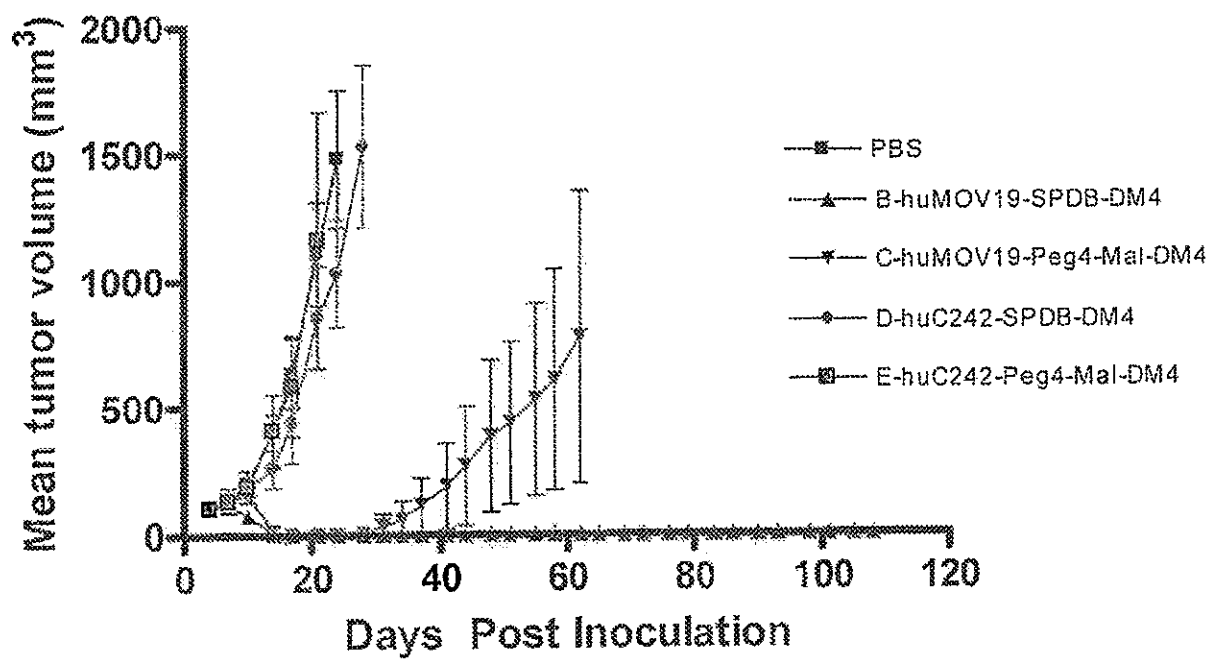


Figure 9

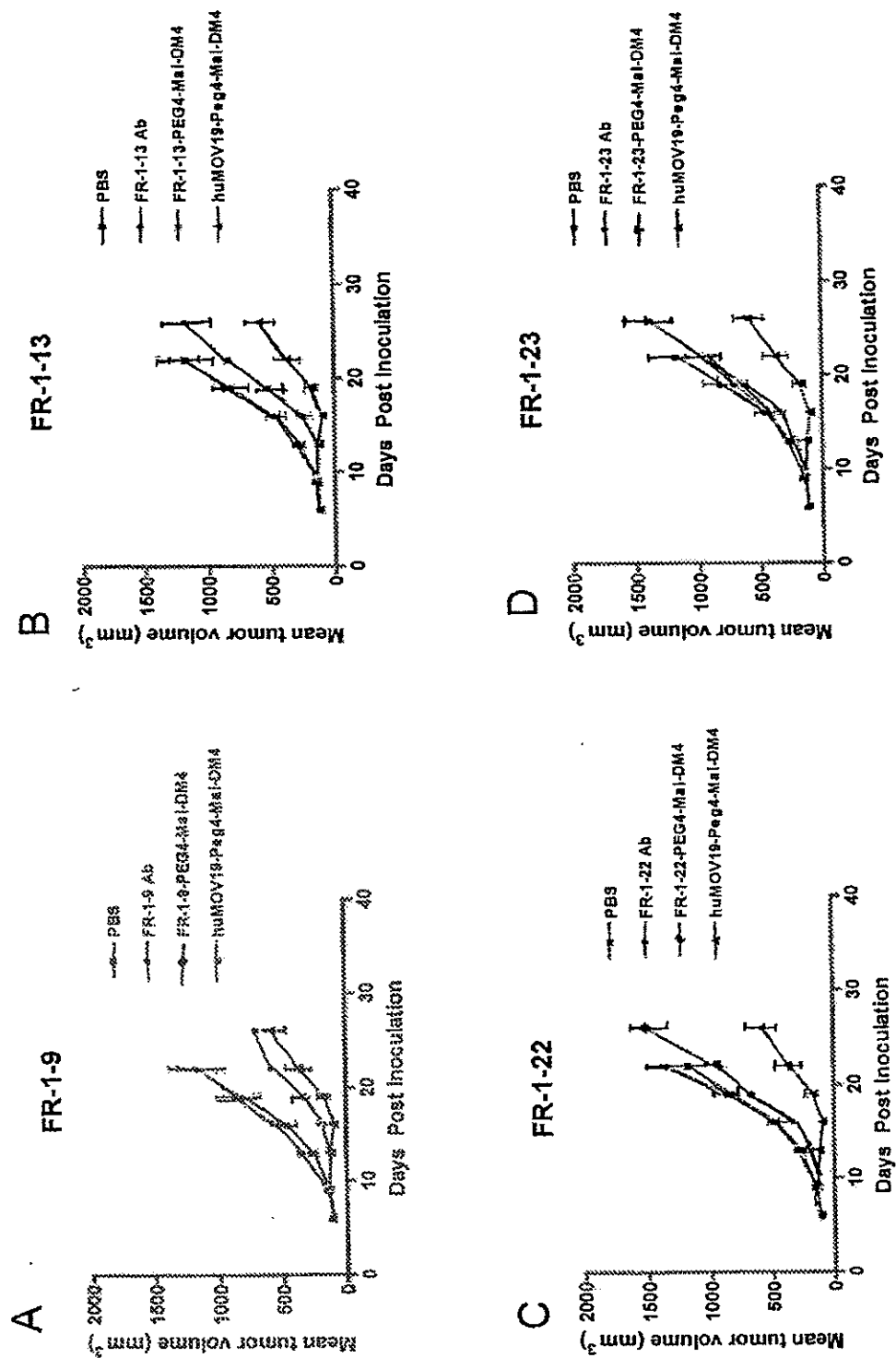
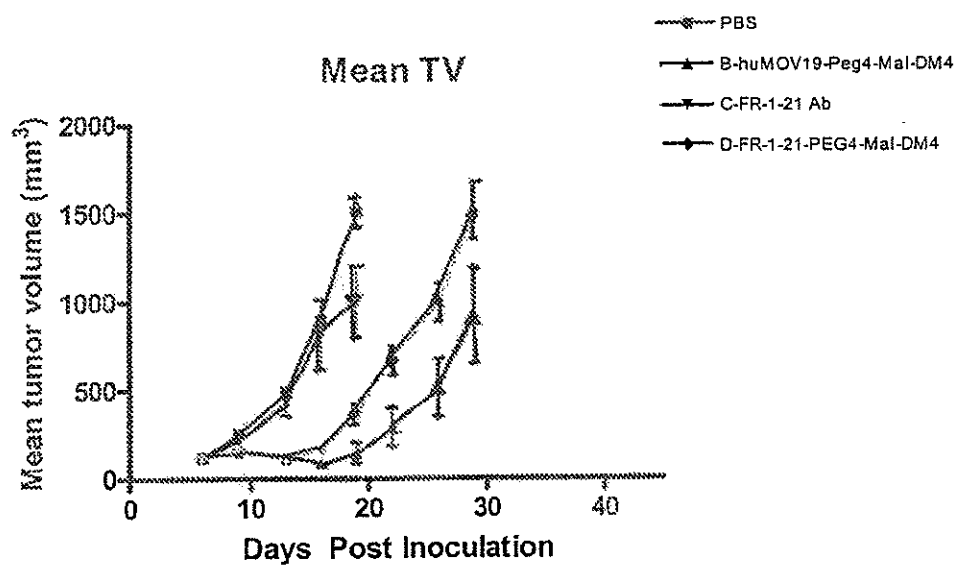


Figure 10



10 mg/kg single injection day 6 post inoculation, KB model

Figure 11

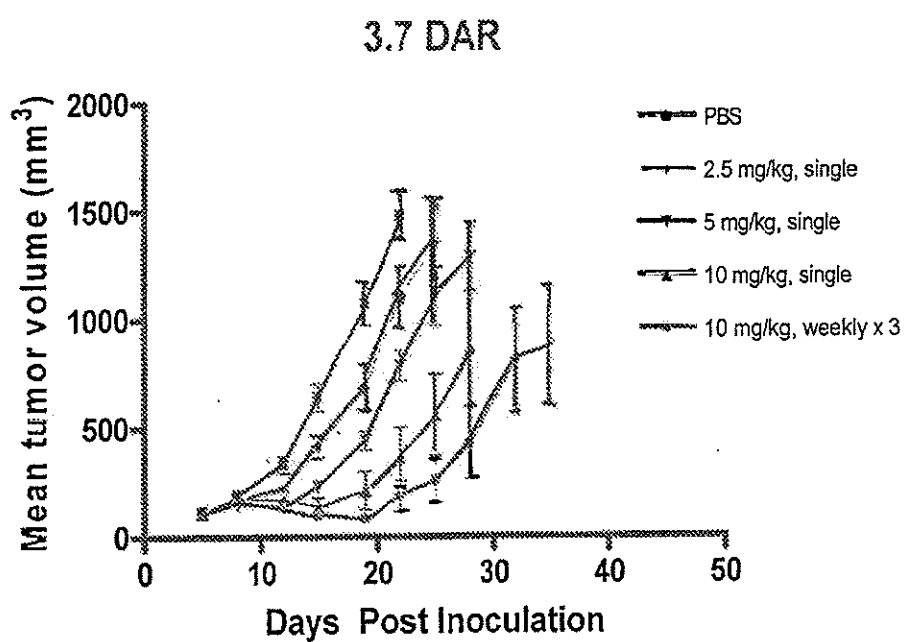


Figure 12

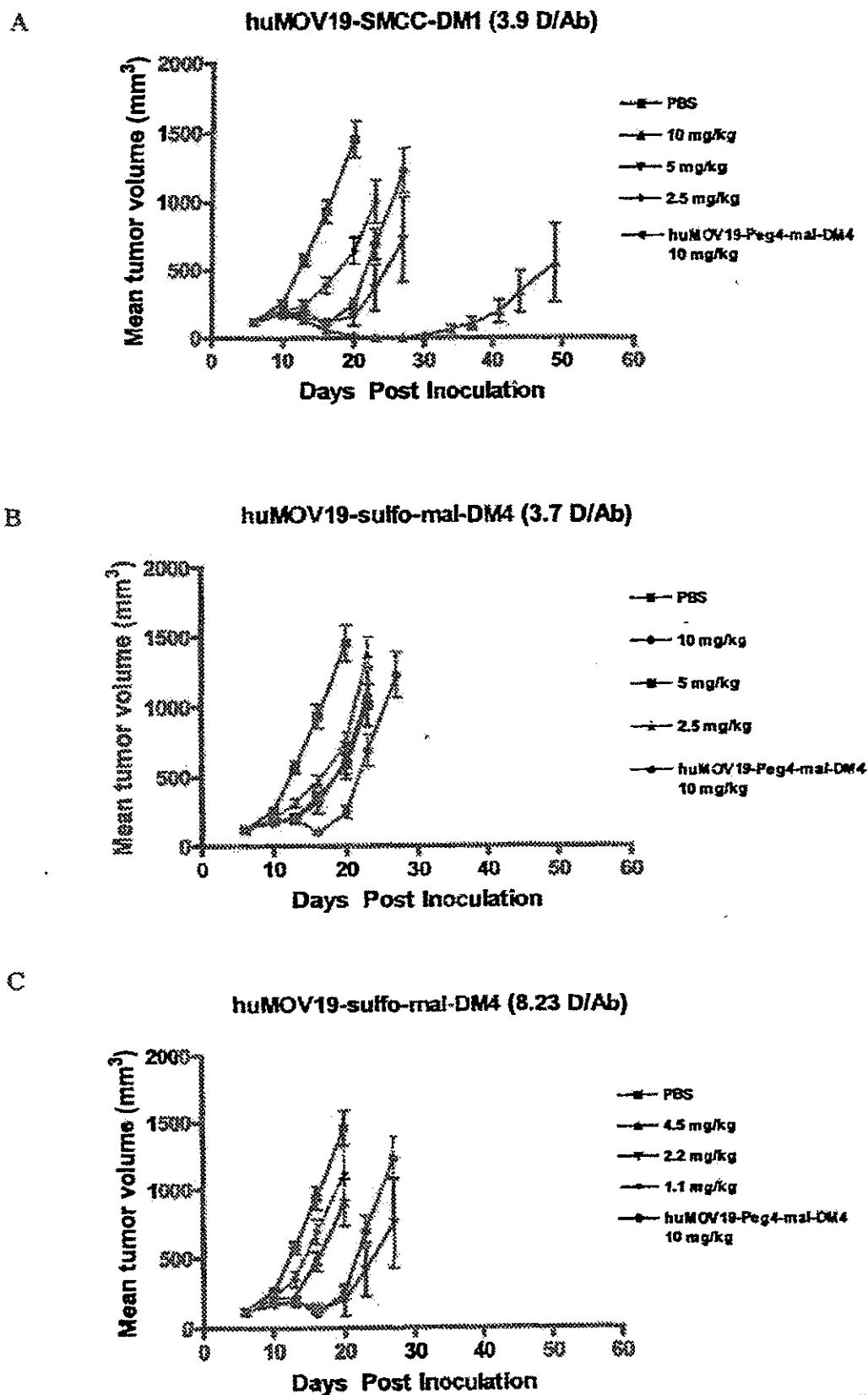
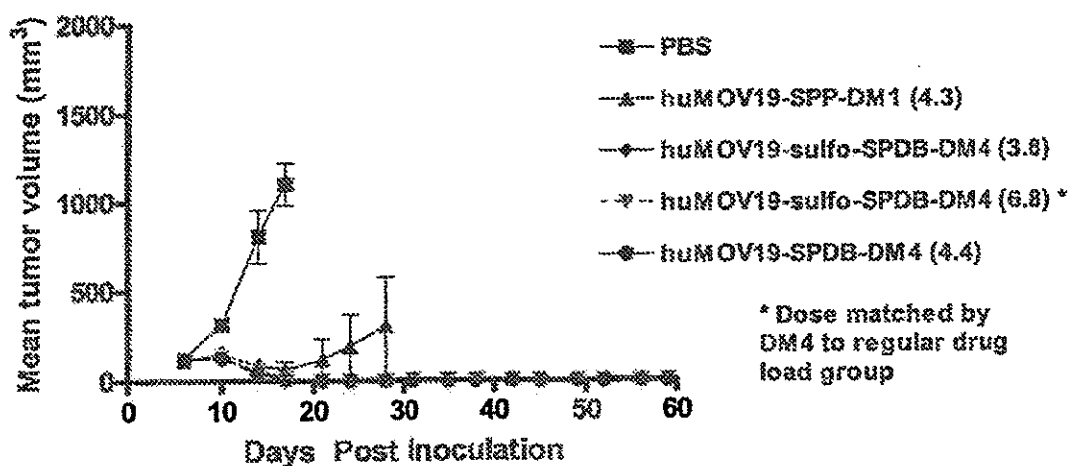


Figure 13

A. 5 mg/kg
single injection



B. 2.5 mg/kg
single injection

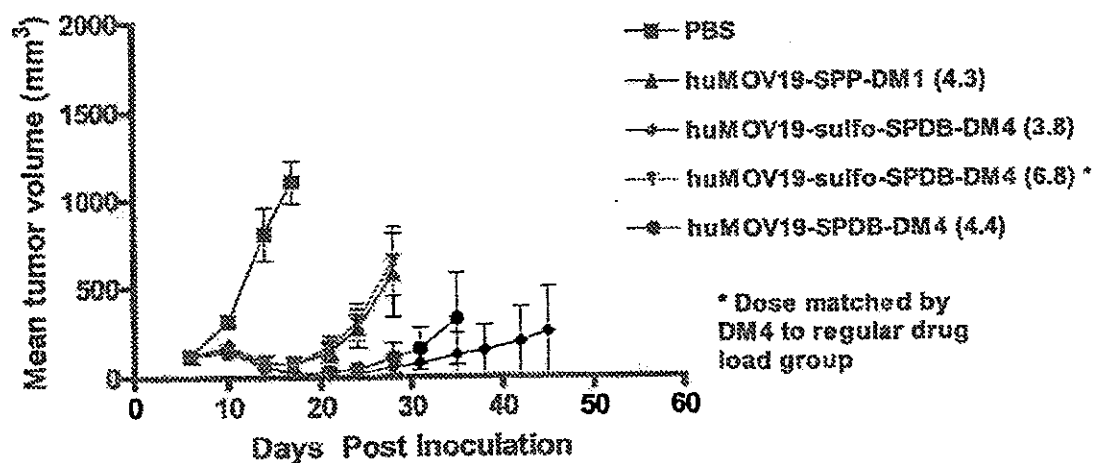
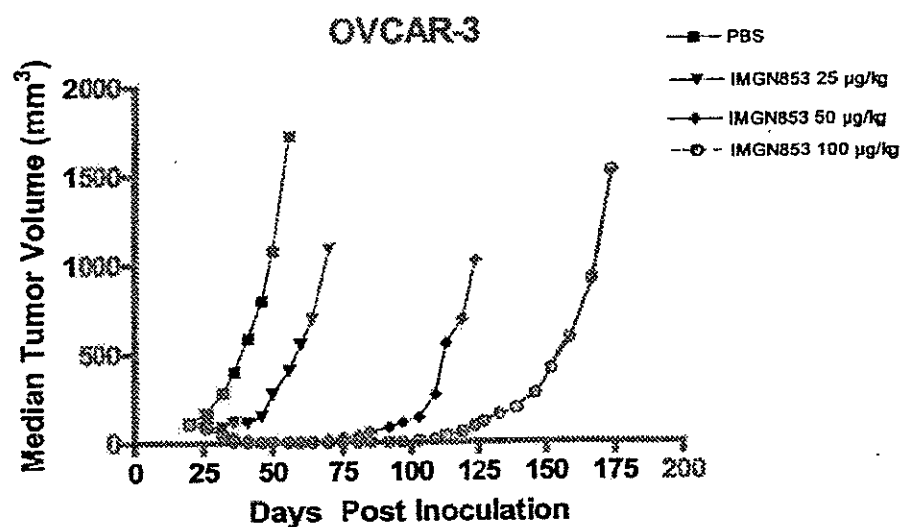
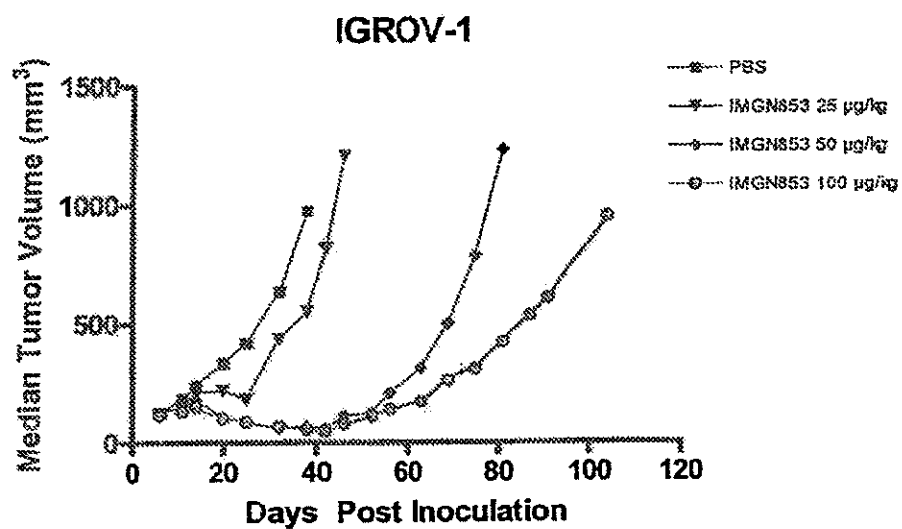


Figure 14



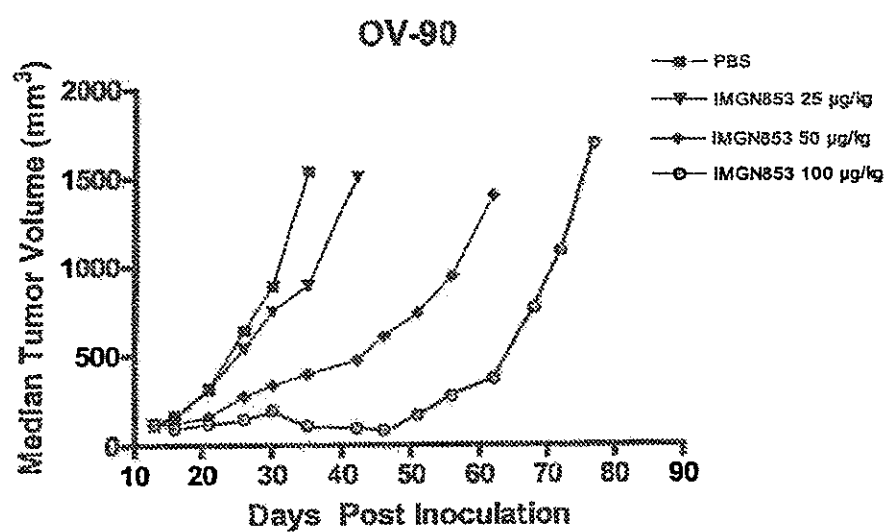
MODEL	Dosage per injection	T/C (%)	(T-C) in days	log cell kill	Regressions		Tumor free survivors day 208	Comments
					Partial	Complete		
OVCAR-3	25 µg/kg	18	21.0	0.7	2/6	1/6	0/6	active
	50 µg/kg	0	74.5	2.4	6/6	4/6	0/6	highly active
	100 µg/kg	0	120.0	3.9	6/6	6/6	0/6	highly active

Figure 15



MODEL	Dosage per injection	T/C (%)	(T-C) in days	log cell kill	Regressions		Tumor free survivors day 120	Comments
					Partial	Complete		
IGROV-1	25 µg/kg	55	6.0	0.2	0/6	0/6	0/6	inactive
	50 µg/kg	7	41.0	1.1	5/6	0/6	0/6	highly active
	100 µg/kg	5	67.0	1.8	6/6	0/6	0/6	highly active

Figure 16



MODEL	Dosage per injection	T/C (%)	(T-C) in days	log cell kill	Regressions Partial	Regressions Complete	Tumor free survivors day 92	Comments
OV-90	25 µg/kg	77	5.0	0.2	0/6	0/6	0/6	inactive
	50 µg/kg	36	26.0	1.2	0/6	0/6	0/6	active
	100 µg/kg	18	40.0	1.9	2/6	0/6	0/6	active

Figure 17

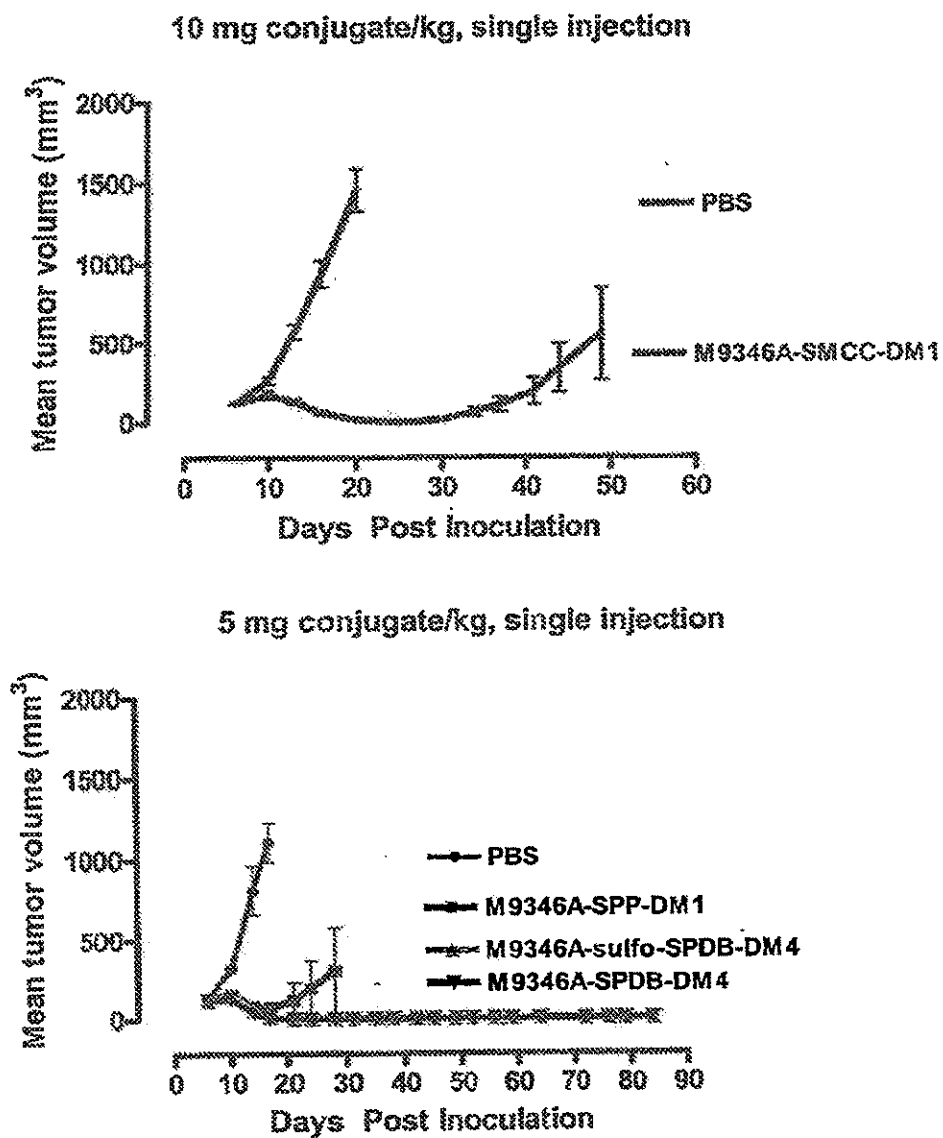


Figure 18

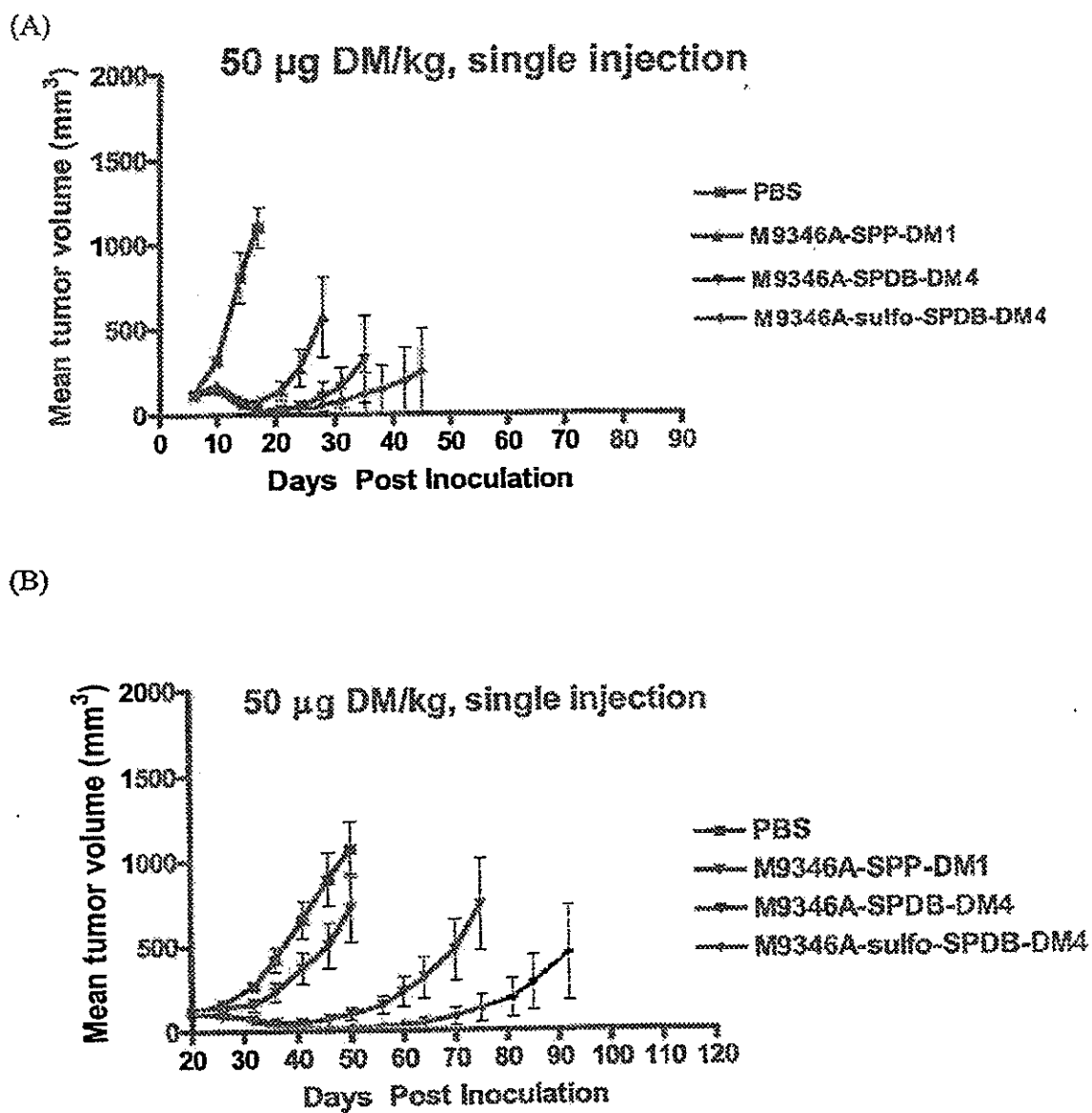
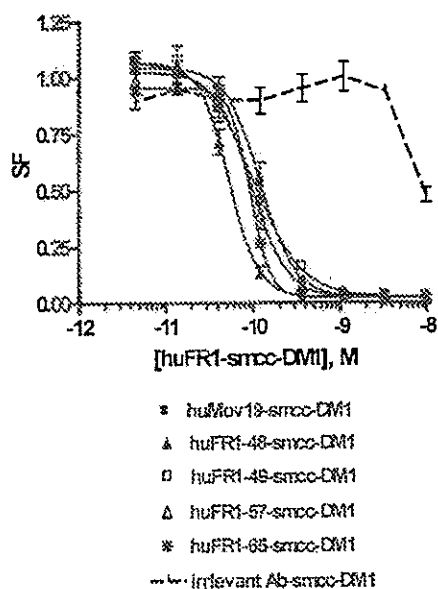


Figure 19

In vitro
KB cell line



In vivo
KB xenograft model

