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FIG. 1A

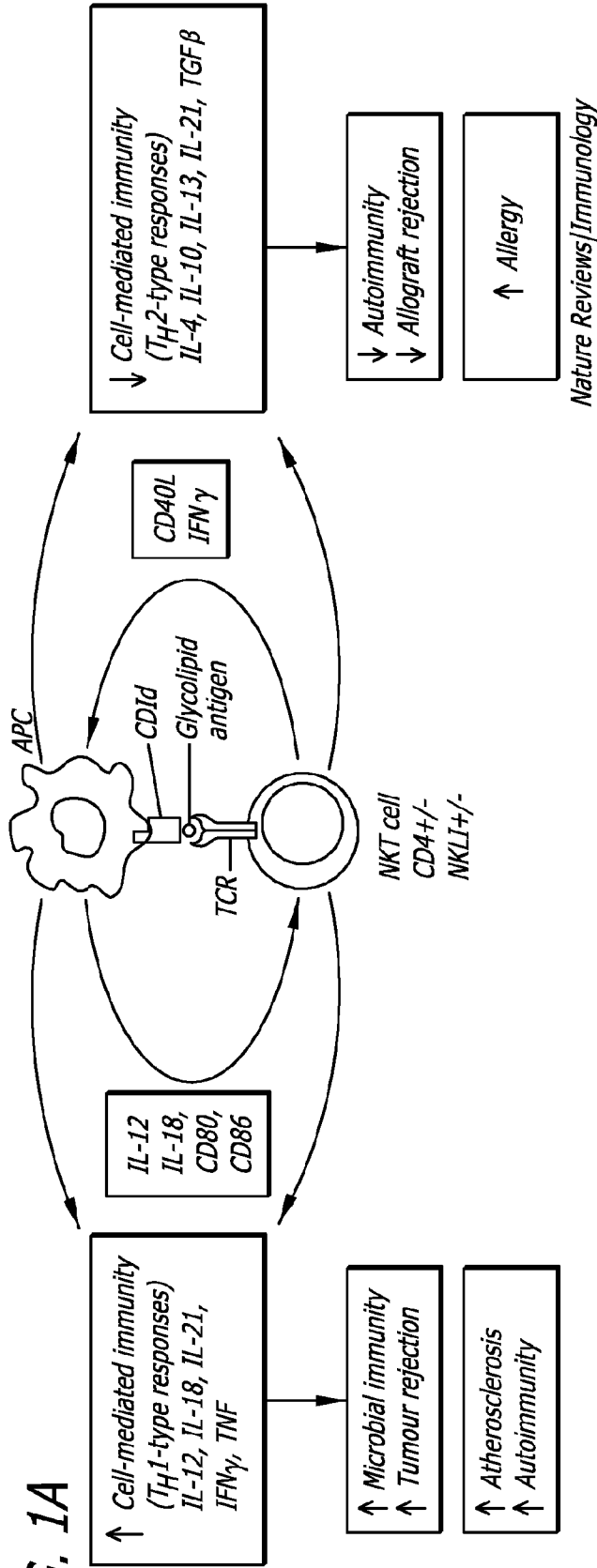
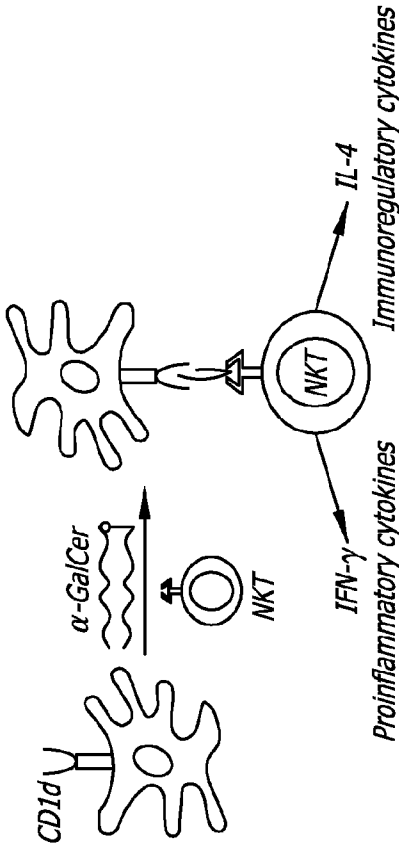
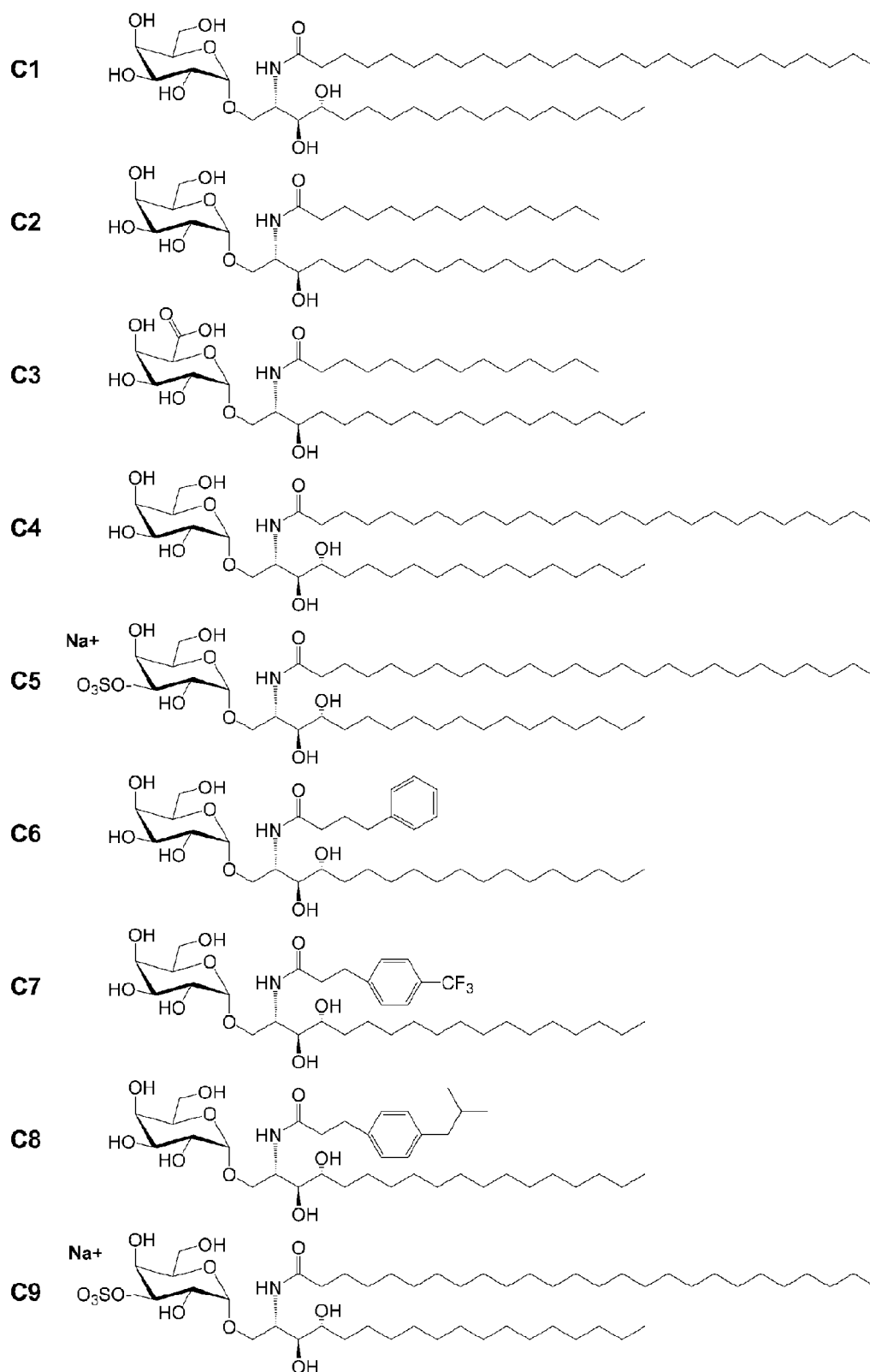


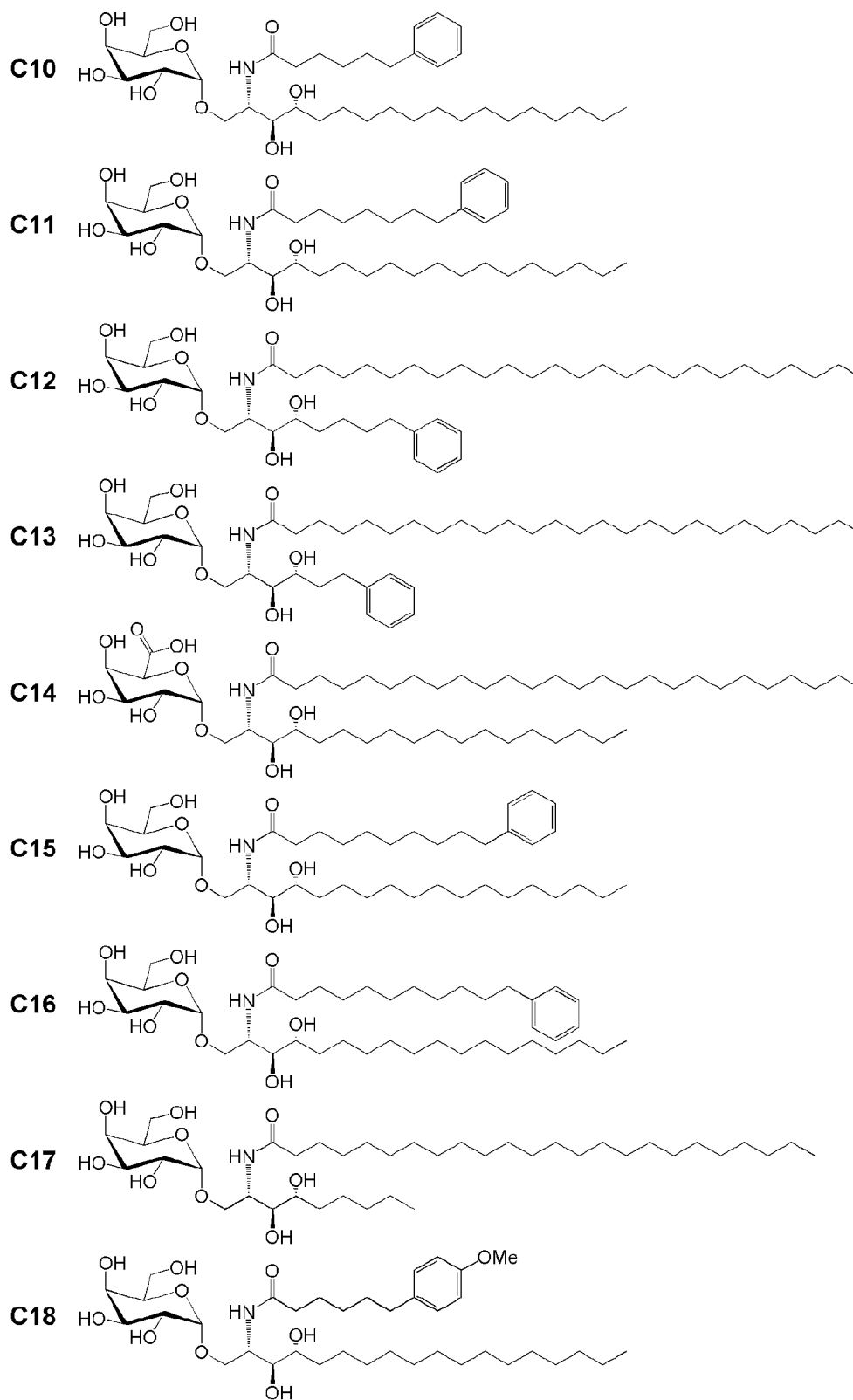
FIG. 1B



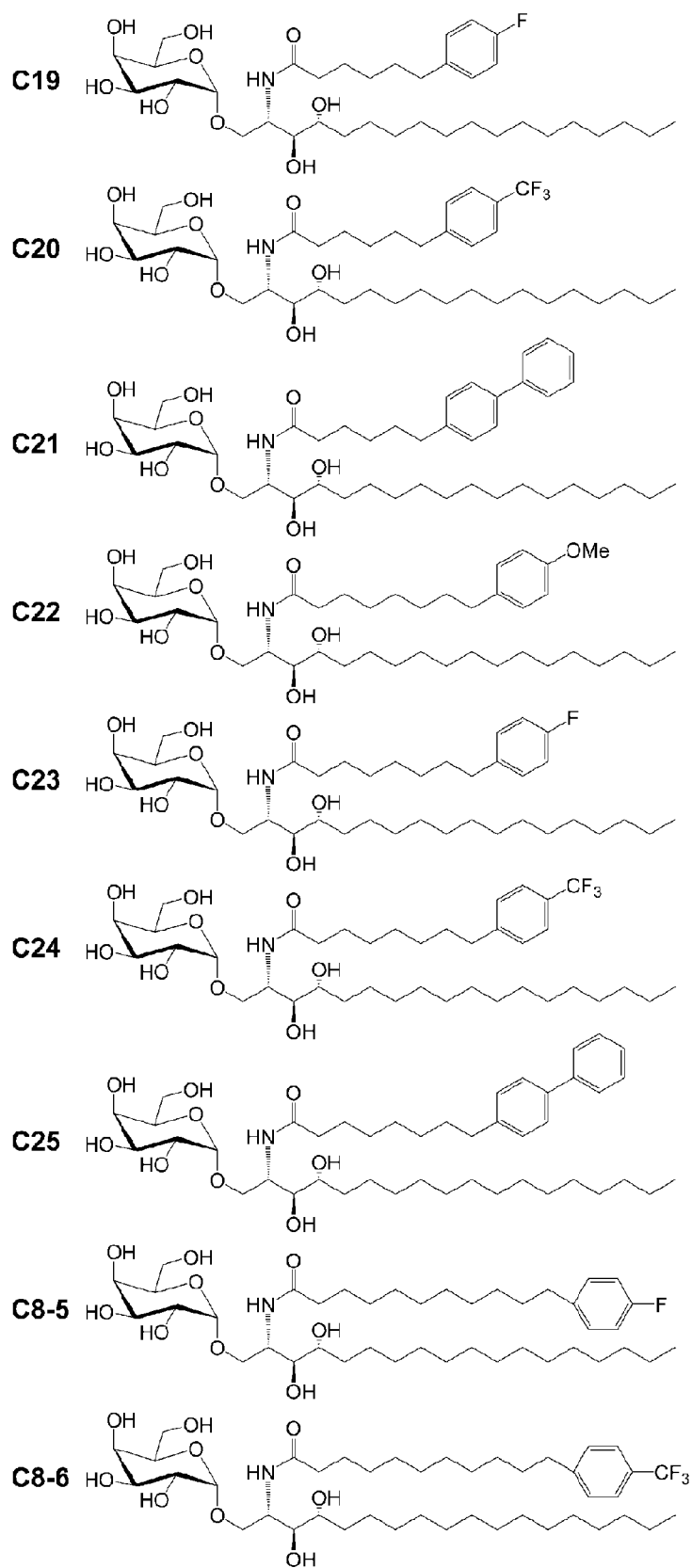
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**FIG. 2-1**

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**FIG. 2-2**

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**FIG. 2-3**

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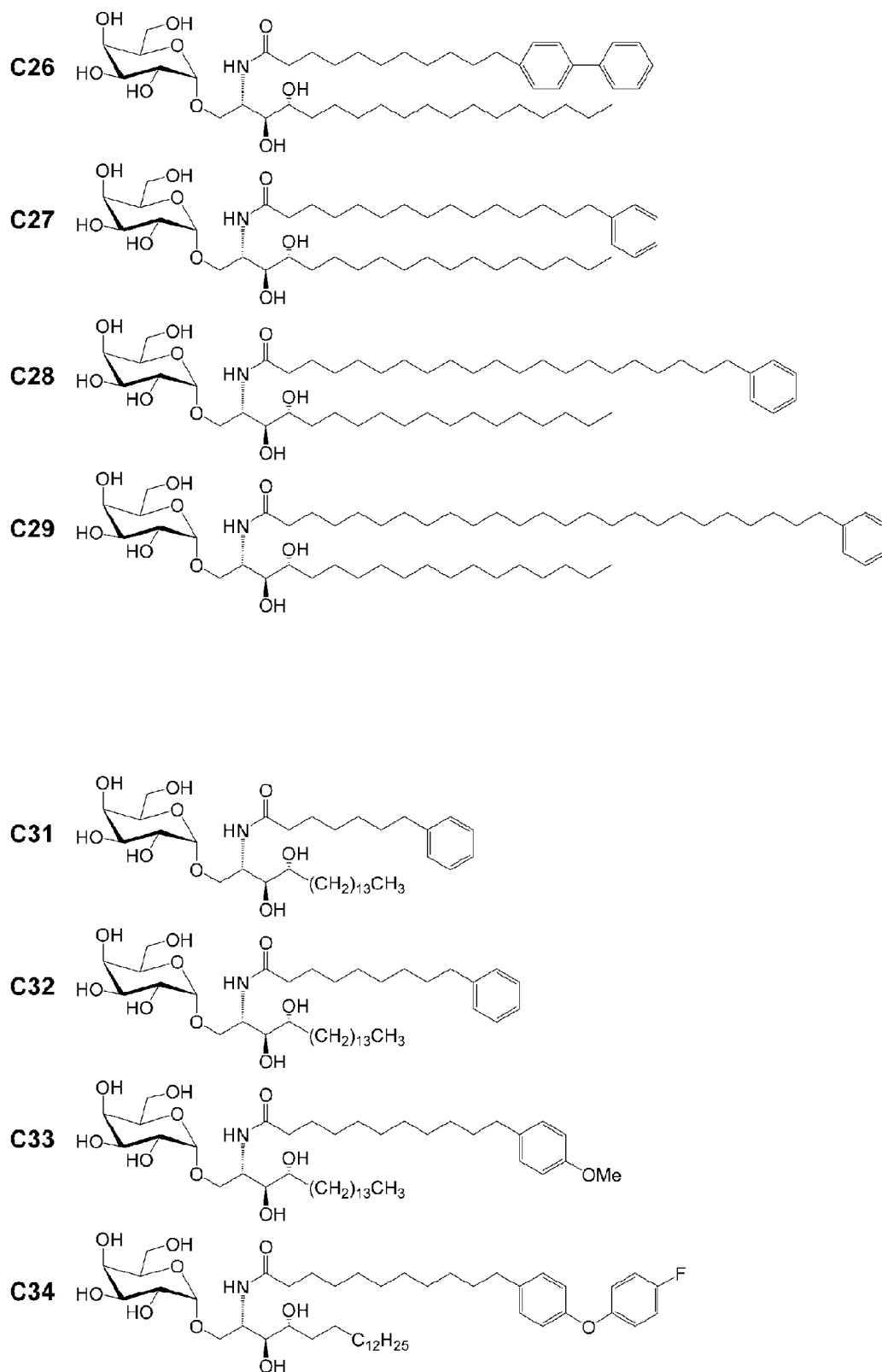
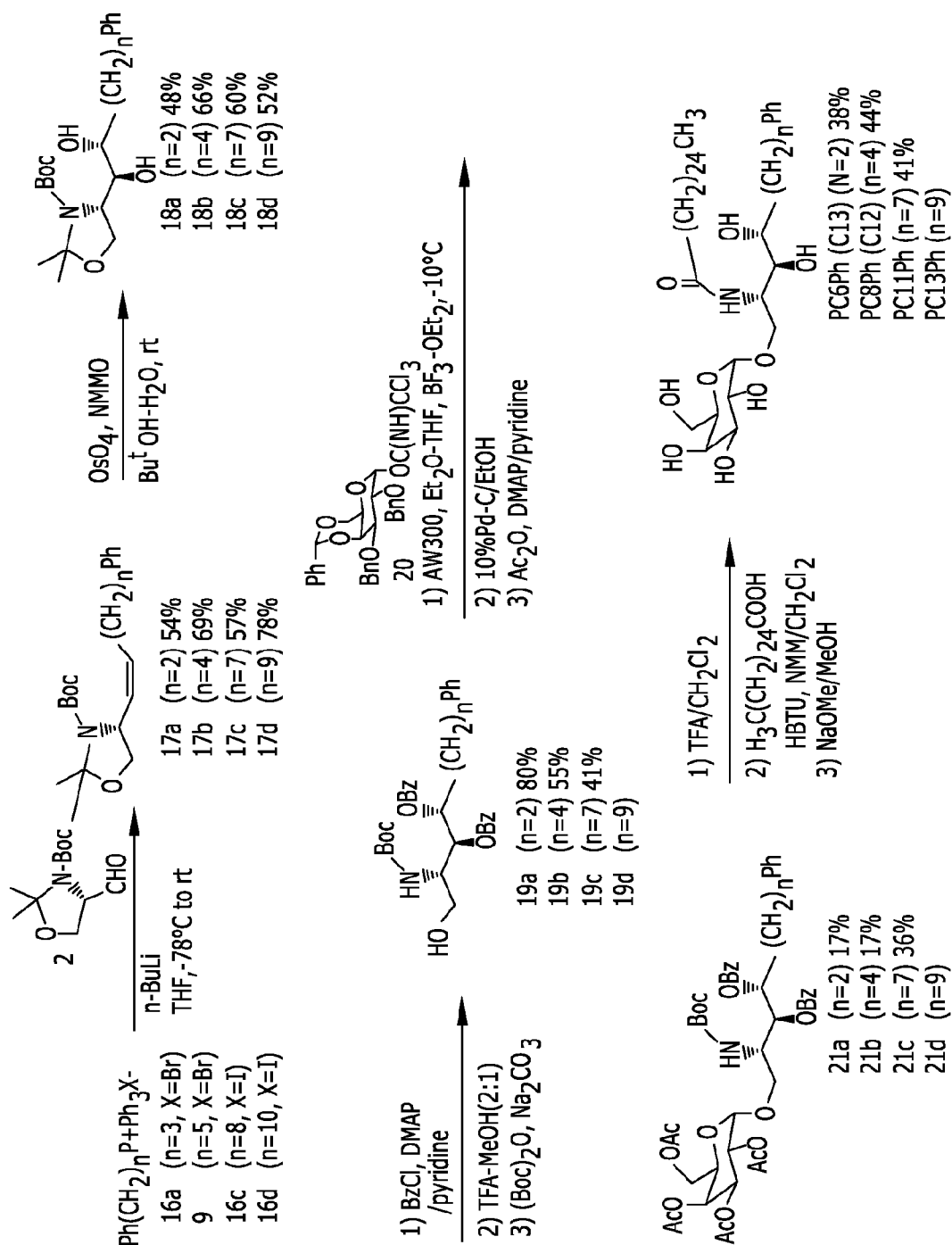
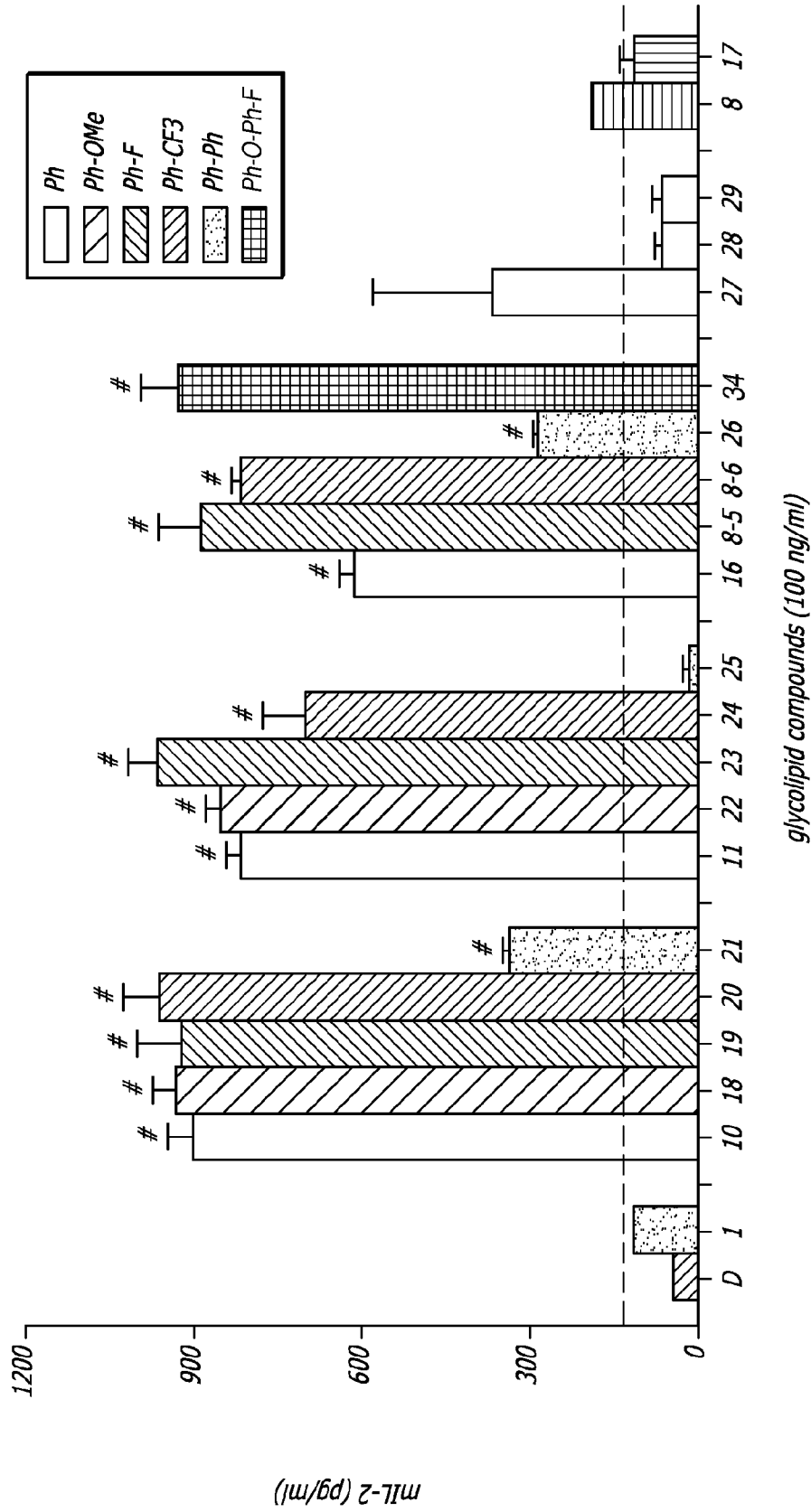
**FIG. 2-4**

FIG. 3



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FIG. 4



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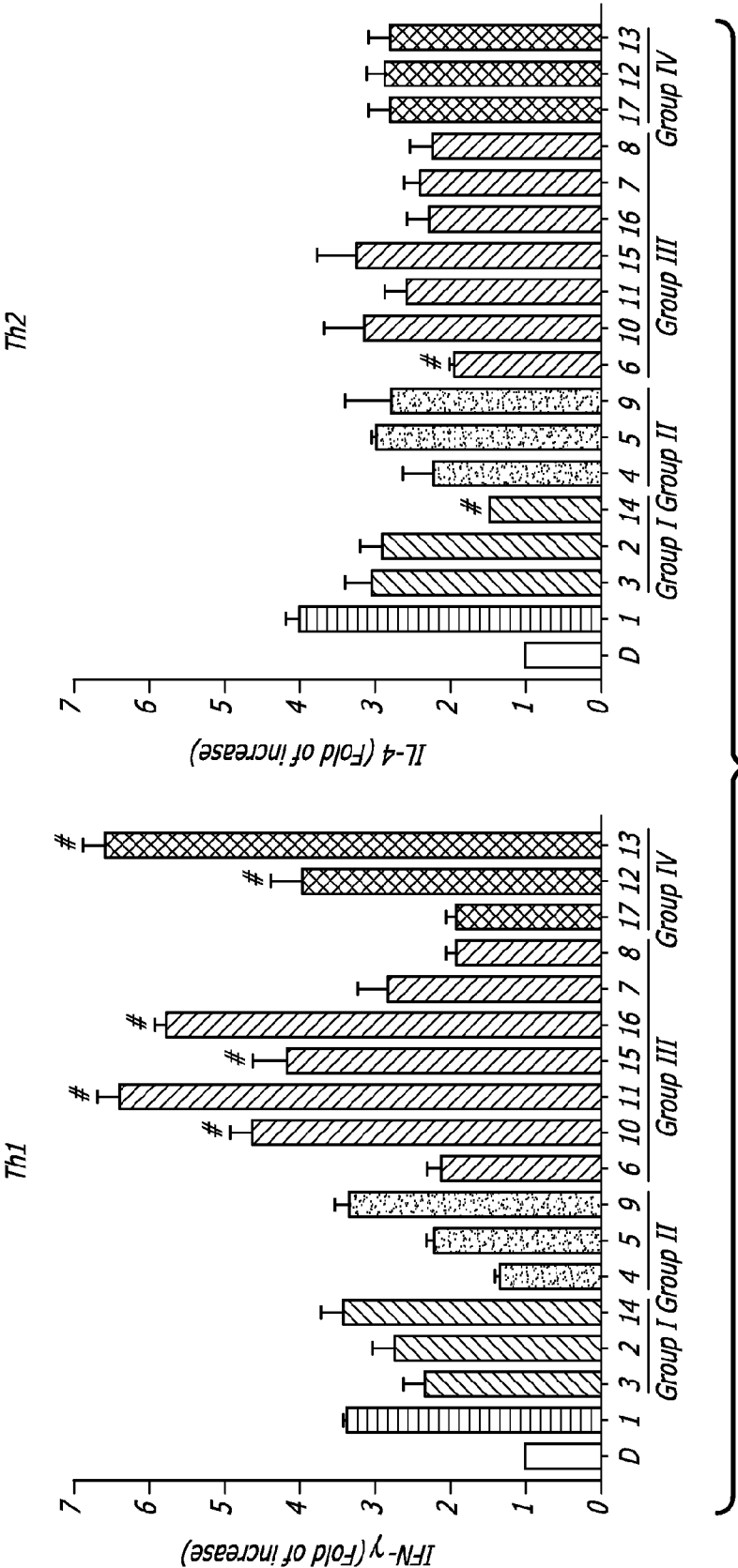


FIG. 5A

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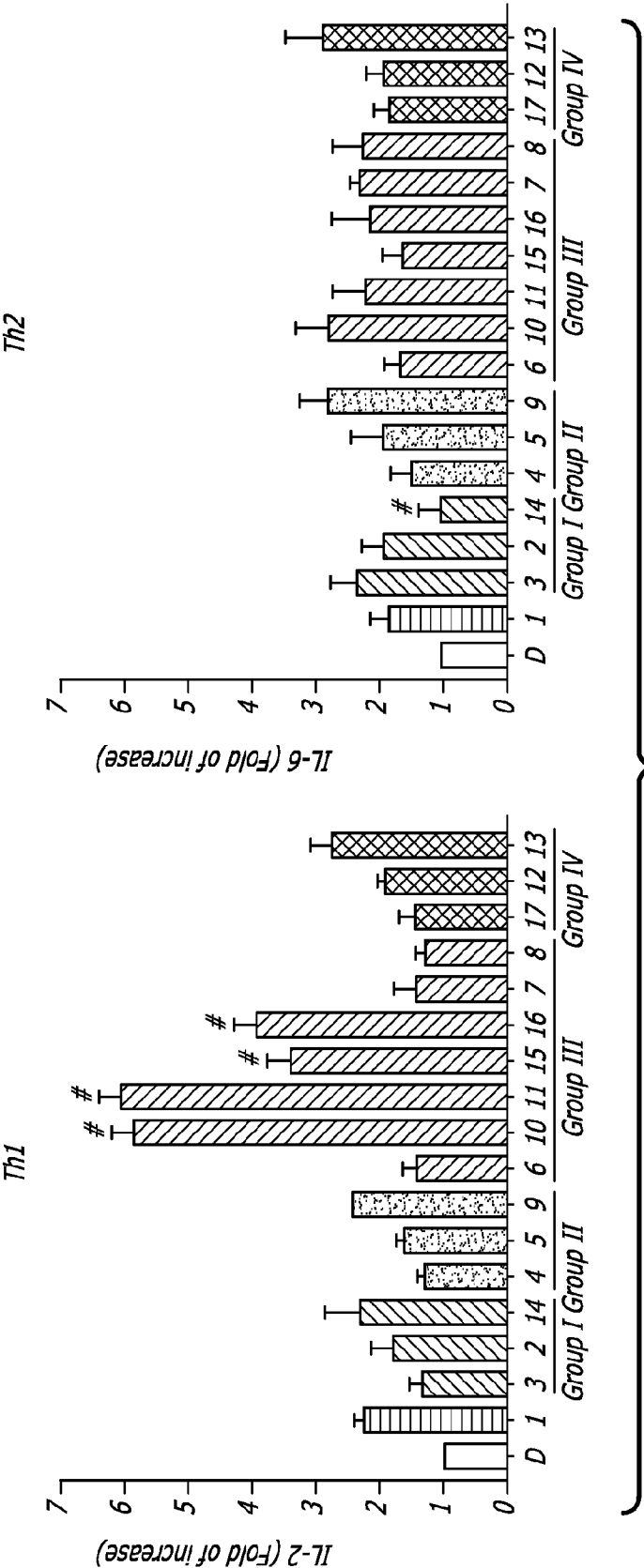


FIG. 5B

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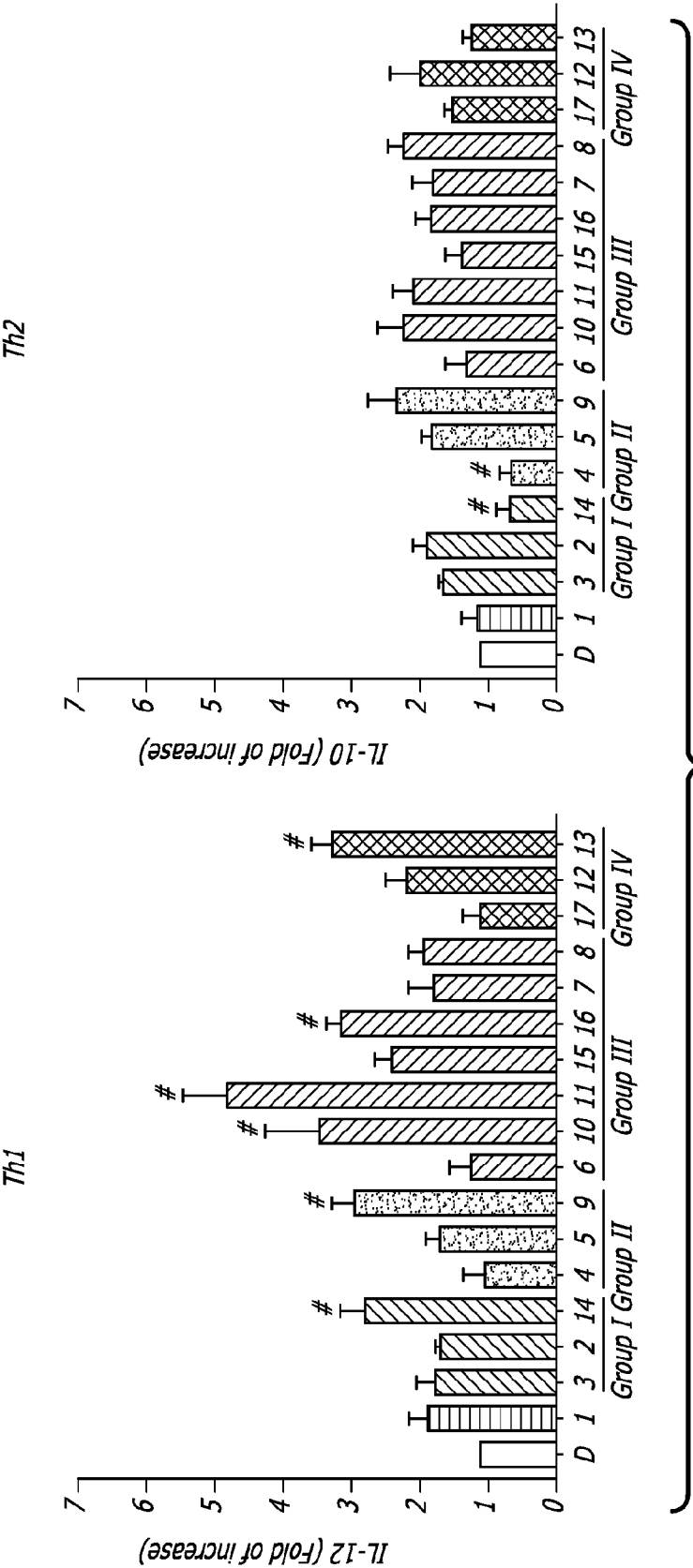


FIG. 5C

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FIG. 6A

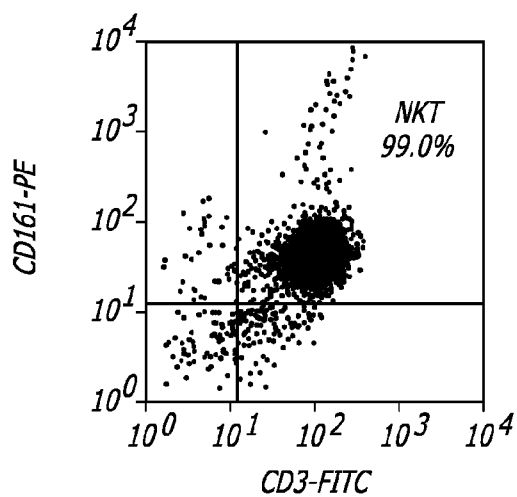
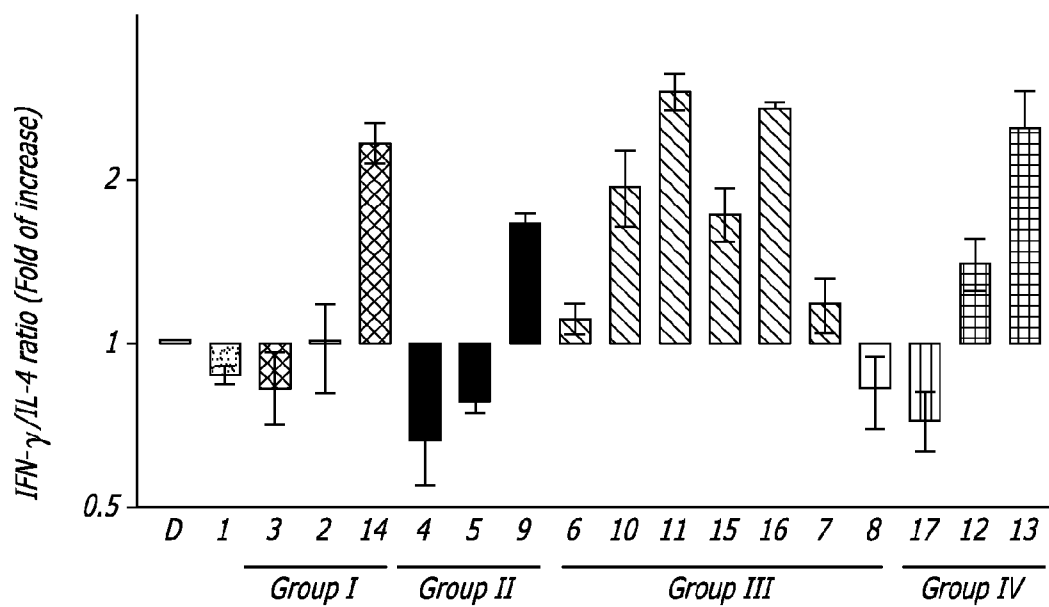


FIG. 6B



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FIG. 7

Human	basal	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17
TH1 bias	pg/ml	fold	fold	fold	fold	fold	fold	fold	fold	fold	fold	fold	fold	fold	fold	fold	fold	fold
IFN- γ	4613	3.4	2.7	2.4	1.3	2.2	2.1	2.8	1.9	3.3	4.6	6.4	3.9	6.6	3.4	4.2	5.2	1.9
IL-2	20.5	2.3	1.8	1.3	1.2	1.6	1.4	1.5	1.3	2.4	5.9	6.1	1.9	2.8	2.3	3.4	3.9	1.5
IL-12 p70	22	1.8	1.6	1.7	1	1.6	1.2	1.7	1.8	2.8	3.3	4.7	2.1	3.2	2.7	2.3	3	1
IL-12 p40	396	1.4	1.7	1.9	1.7	1.8	1.4	1.9	1.8	2	2.4	2.3	1.8	1.8	1.8	1.4	2.1	1.4
RANTES	6413	1.6	2	2.4	1.5	1.5	1.5	1.7	1.3	1.6	1.8	1.7	2	2.5	1.6	2.1	1.6	1.8
MIP- α	13365	2.9	3.5	3.5	1.5	3.2	3.2	3.4	2.8	3.4	3	3.3	3.5	3.6	3.3	3.4	3.4	2.7
MCP-1	10768	0.9	1.4	1.7	1.4	1.5	1	1.4	0.9	1.4	1.3	1	1.8	2	1.2	1.5	0.6	1.3
IL-8	4325	1.7	2.2	2.3	1.9	1.9	1.6	2.4	1.9	2.2	2.2	1.8	2.3	3	1.4	2.2	1.8	1.6
TNF- α	193.5	7.7	3	5.5	2.5	3.7	3.3	3.3	5.5	8.4	8.7	8.1	3.4	7.6	1.7	5.6	7.4	2.2
IL-3	57	1.9	1.7	1.7	1.1	2.3	1.8	1.6	1.9	3.3	4.1	4.2	2.6	1.7	1.3	1.8	2.5	1.4
GM-CSF	511	3.5	3	2.9	1.6	4.1	2.8	3.5	3.8	6.6	5.6	6.7	5.8	4.3	2	3.4	5.4	4.7
IL-15	150	2.6	2.4	2	1.8	2.2	2.2	2.1	2.2	2.3	2.6	2.8	2.3	2.3	1.7	2.3	2.7	2.1
TH2 bias																		
IL-4	825	3.9	2.8	2.9	2.1	2.9	1.9	2.4	2.2	2.7	3	2.6	2.8	2.7	1.5	3.2	1.9	2.7
IL-6	630	1.8	1.9	2.3	1.5	1.9	1.6	2.3	2.1	2.7	2.7	2.2	1.9	2.8	1	1.6	2.1	1.8
IL-10	1530	1.2	1.9	1.7	0.6	1.8	1.3	1.7	2.2	2.5	2.4	2.3	2	1.2	0.7	1.4	1.8	1.5
IL-13	803	1.8	1.9	2	1.6	2.4	1.6	2.1	1.4	1.6	2.6	1.7	1.8	2.3	1.1	1.6	1.6	1.6

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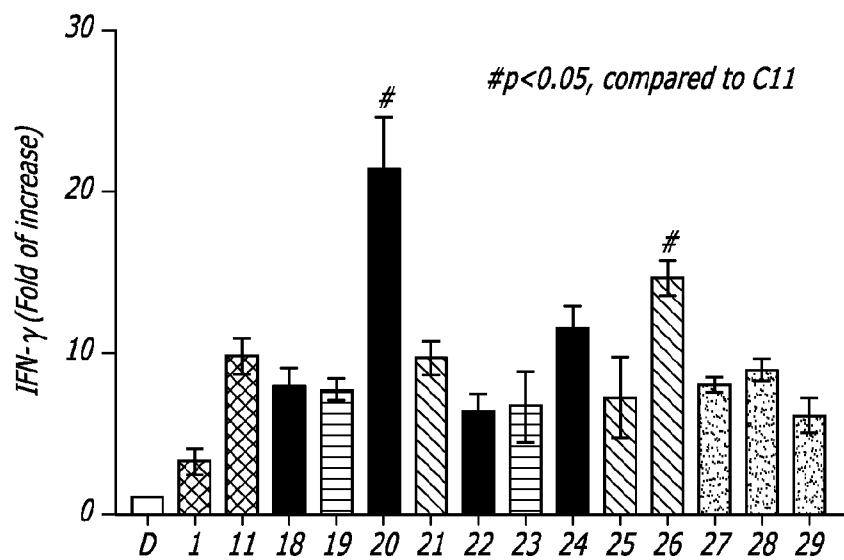


FIG. 8A

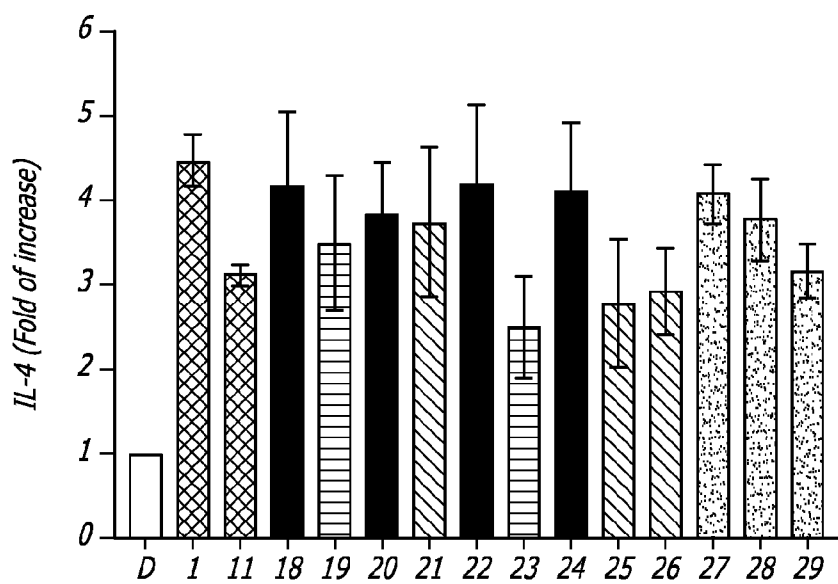


FIG. 8B

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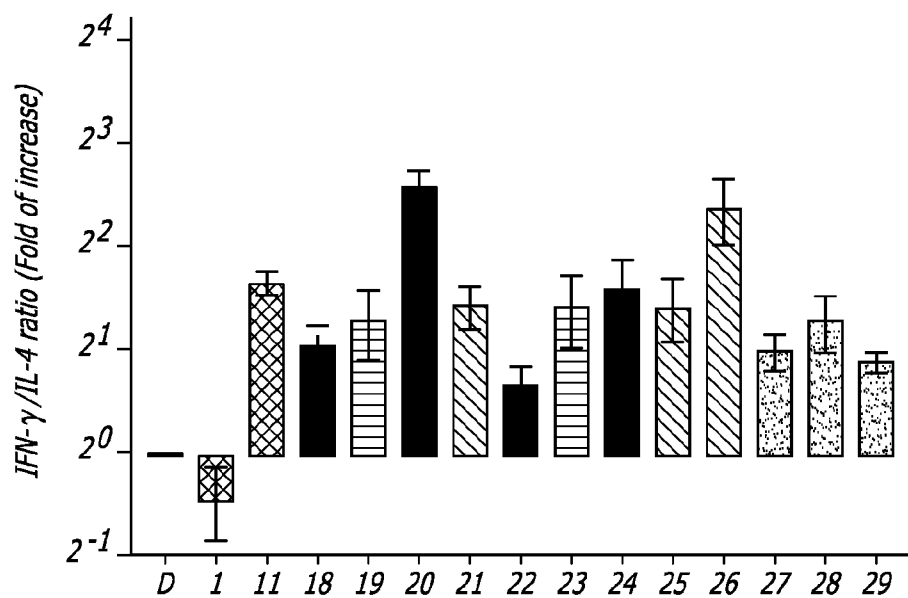


FIG. 8C

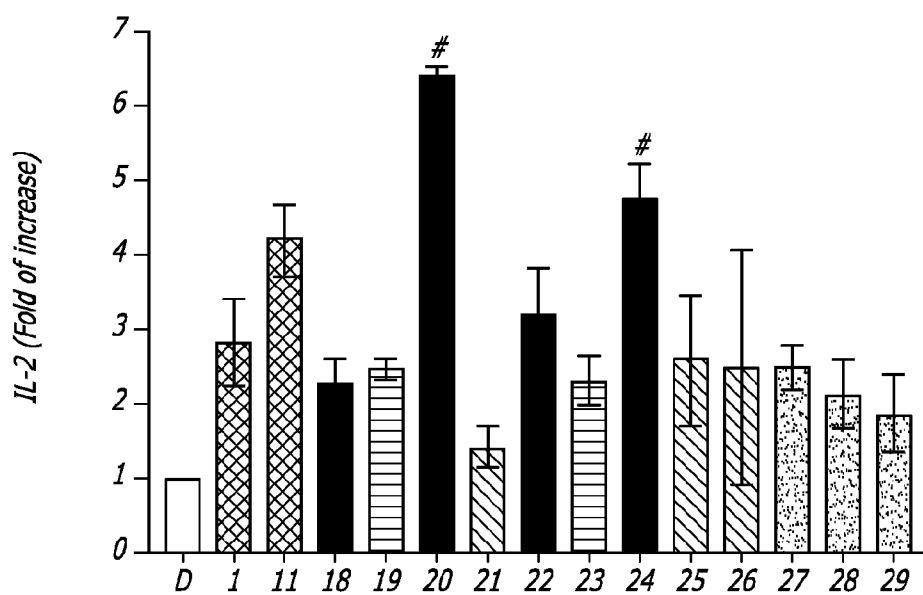


FIG. 8D

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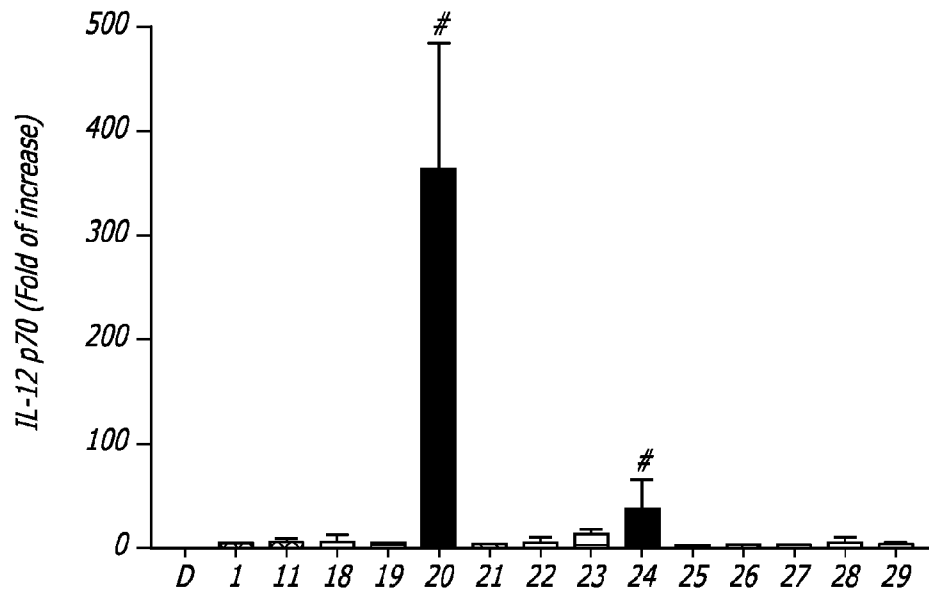


FIG. 8E

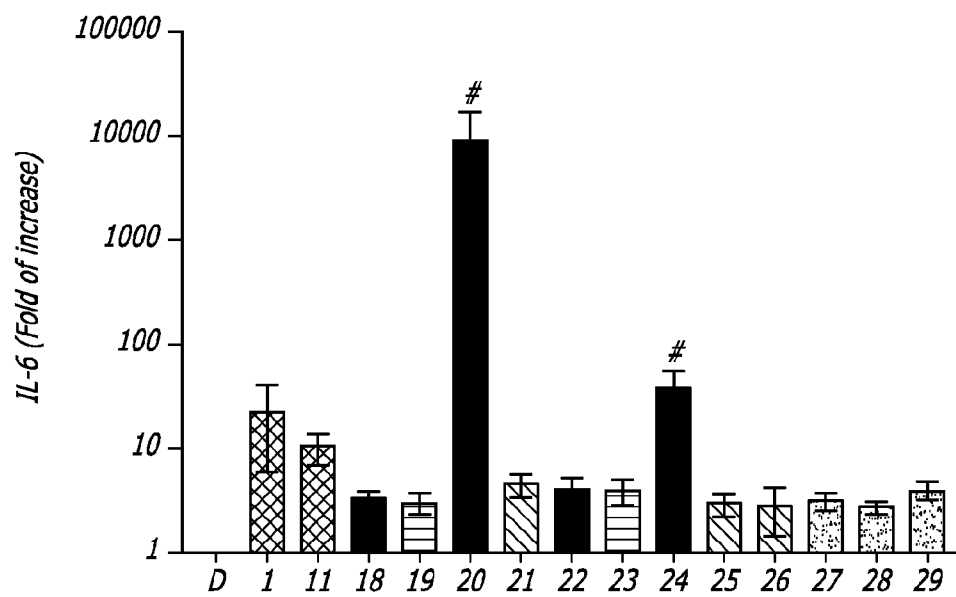


FIG. 8F

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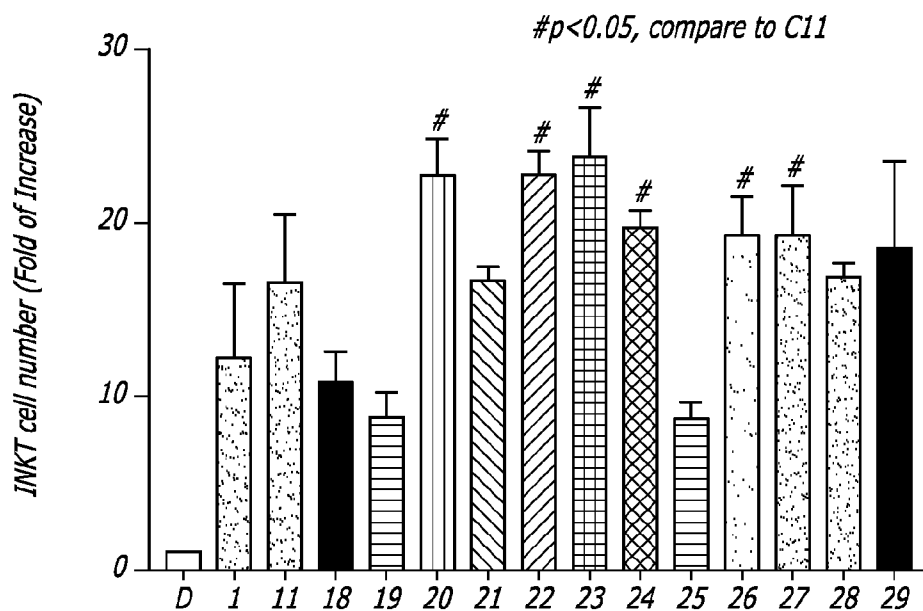


FIG. 9

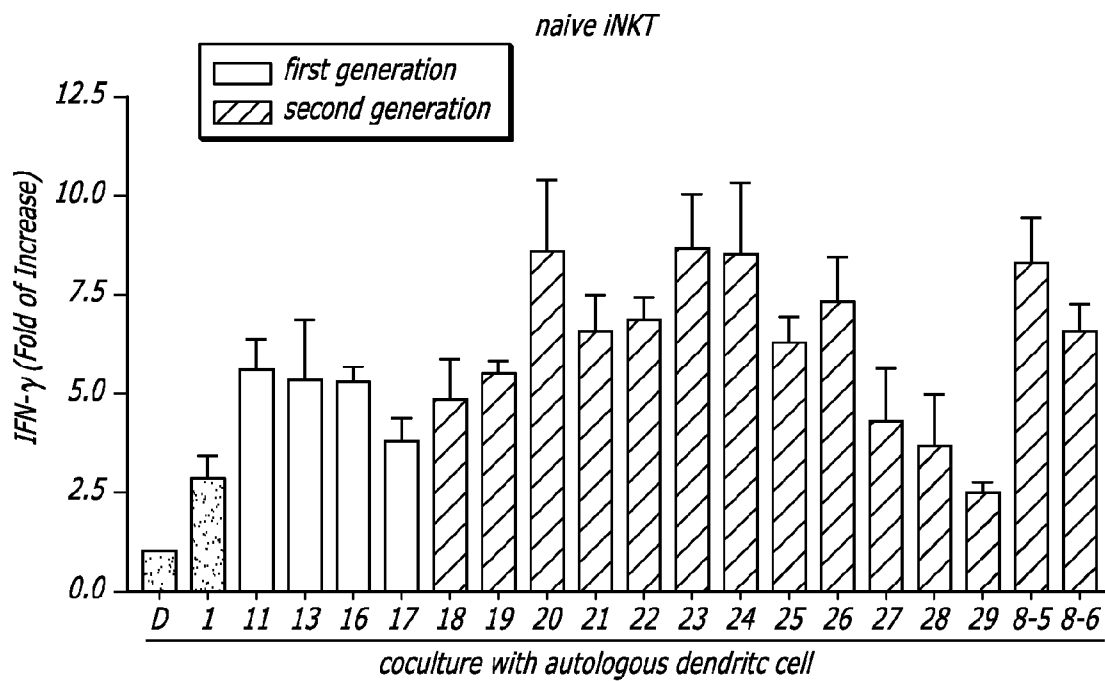
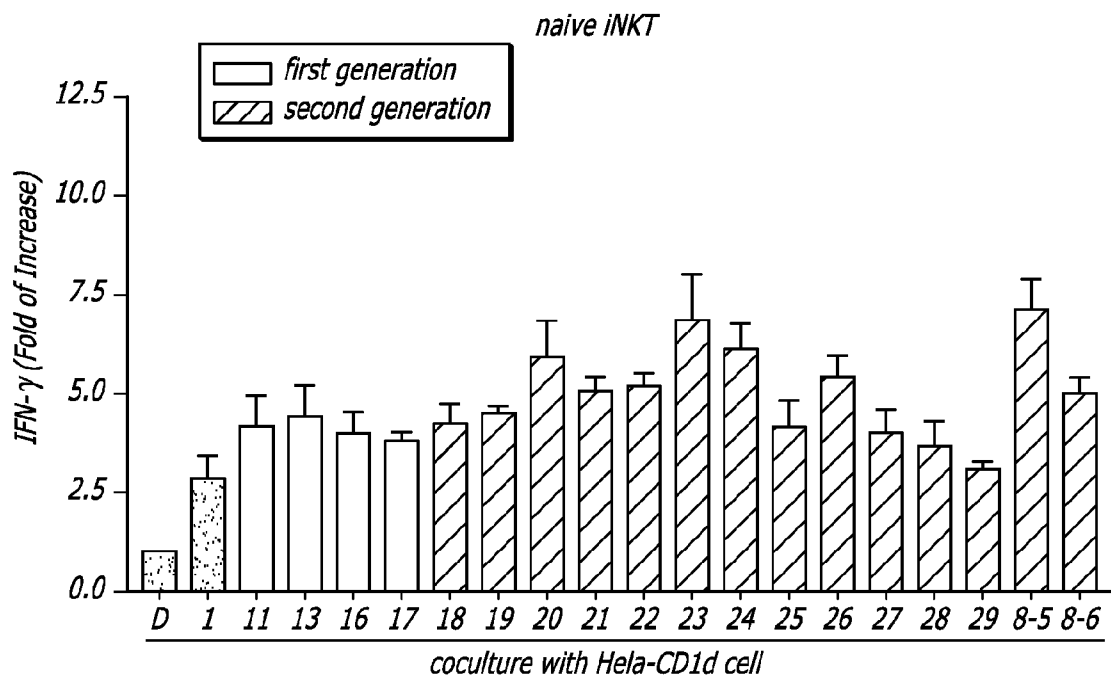
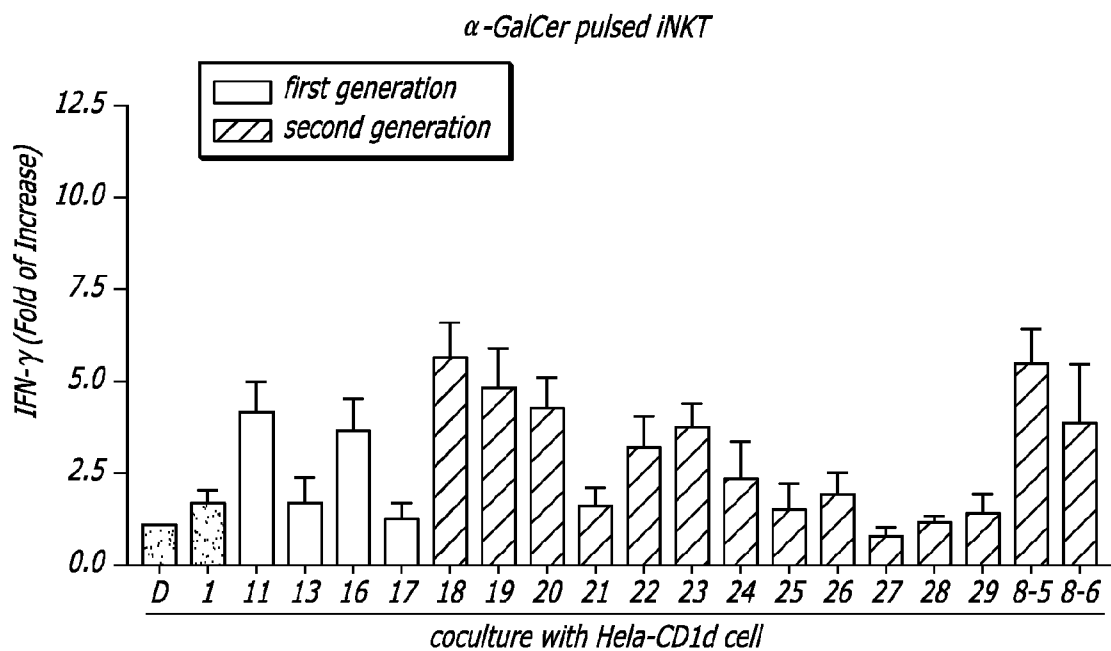
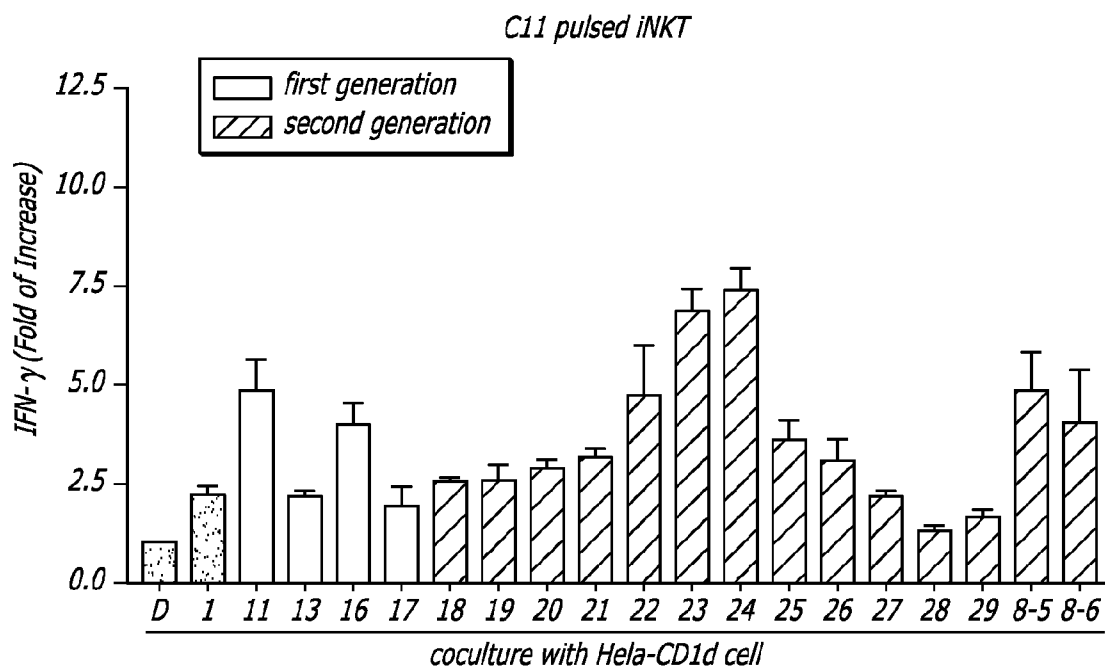
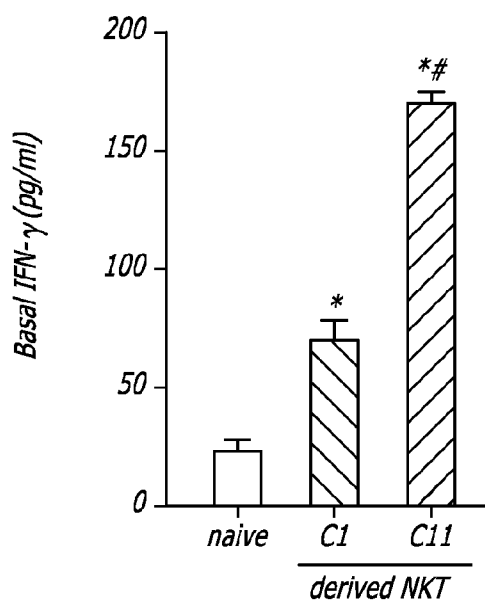


FIG. 10A

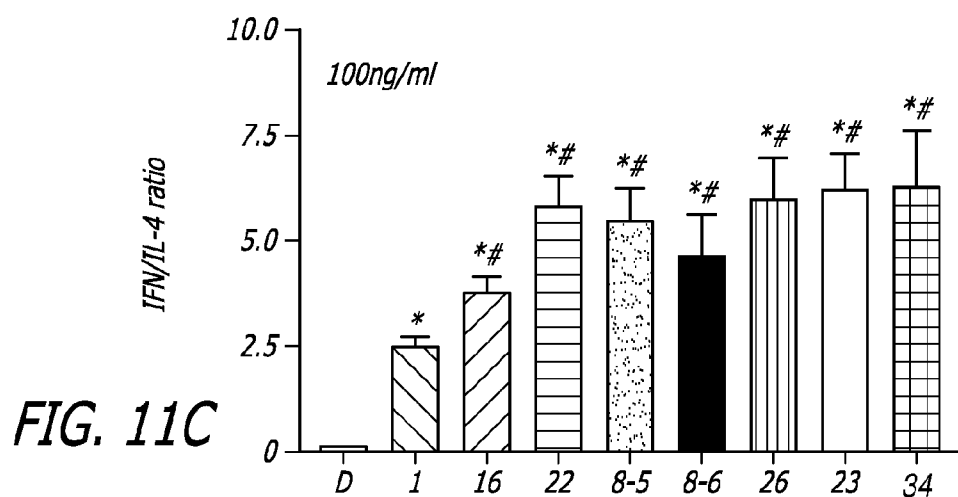
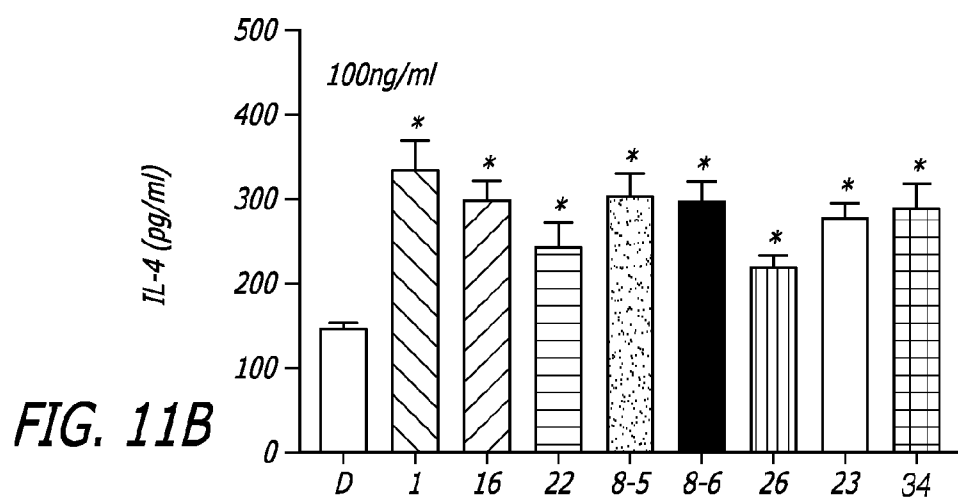
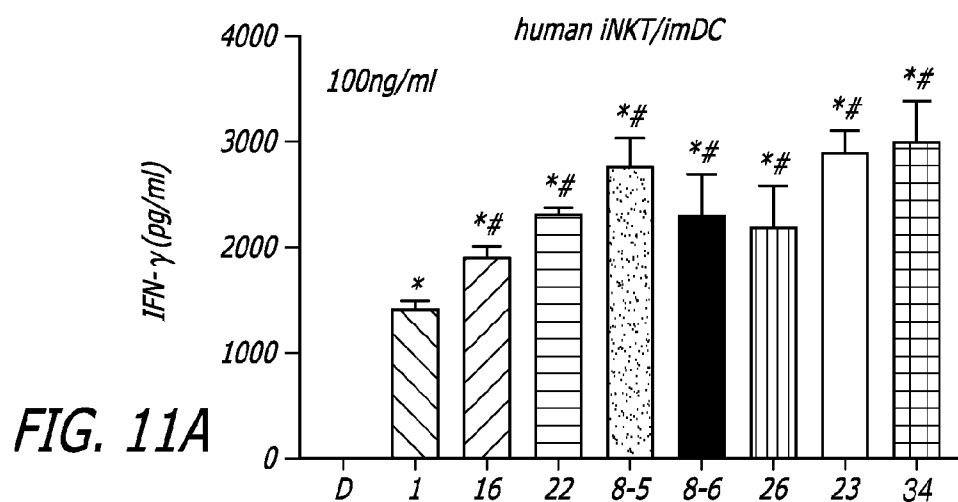
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**FIG. 10B****FIG. 10C**

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**FIG. 10D****FIG. 10E**

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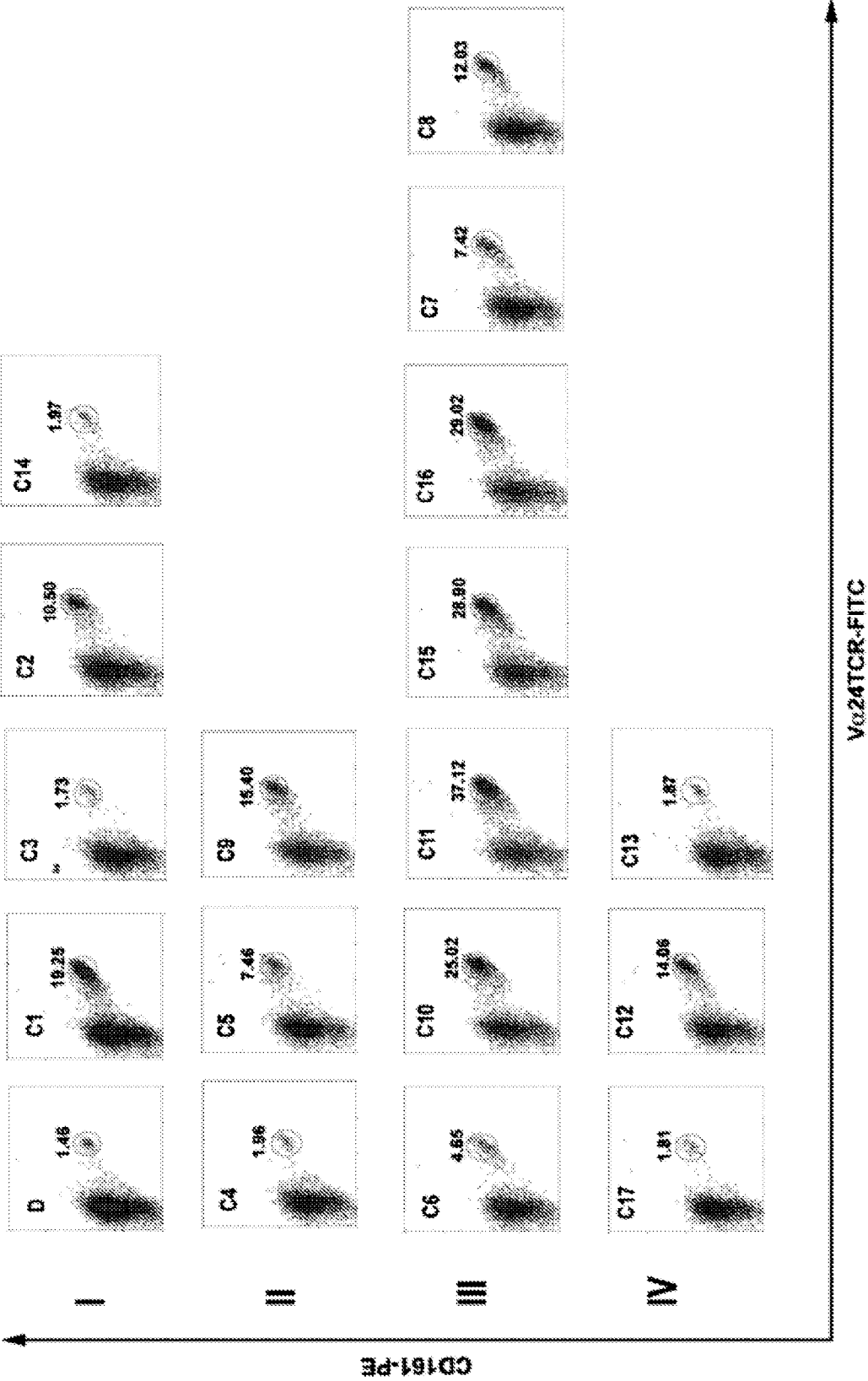
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25 cytokine/chemokine

human iNKT/DC	D	C1	C23	7DW8-5	C34	C17
TH1 bias	pg/mL	pg/mL	pg/mL	pg/mL	pg/mL	pg/mL
IFN-gamma	57	1886	4349	4358	4103	1073
IL-1 alpha	47	46	61	47	48	40
IL-1 beta	46	35	76	33	28	26
IL-2	33	119	430	506	517	71
IL-12 p40	473	460	902	759	665	403
IL-12 p70	158	353	691	582	510	134
IL-15	26	25	29	30	28	25
IL-8	5000	7241	14664	2609715	50209792	5463133
MCP-1	297	5284	9394	72354	60707	8268
MIP-1 beta	2413	1583	2935	2843	2211	2118
RANTES	16447	23491	36440	285864050	1325045972	31159
TH2 bias						
IL-4	110	320	264	279	286	184
IL-6	600	1887	4091	647732	77590	13803
IL-10	1717	2046	3739	2236	2032	1580
IL-13	139	204	4499	2688	1852	142
TH17						
IL-17	64	894	376	66	49	12
other						
TNF-alpha	151	218	2963	1787	1687	89
Eotaxin	53	51	74	67	52	48
GM-CSF	50	42	591	661	487	55
IL-3	4	6	30	25	33	5
IL-5	17	11	31	26	22	14
IL-7	35	32	36	35	33	30
IP-10	14930	1434559	163782	146750	1634841	21224
IL-1RA	14103	62820	50335	61420	49656	16564
IL-18	7	29	73	19	16	3
IL-21	NA	NA	NA	NA	NA	NA

FIG. 12

FIG. 13



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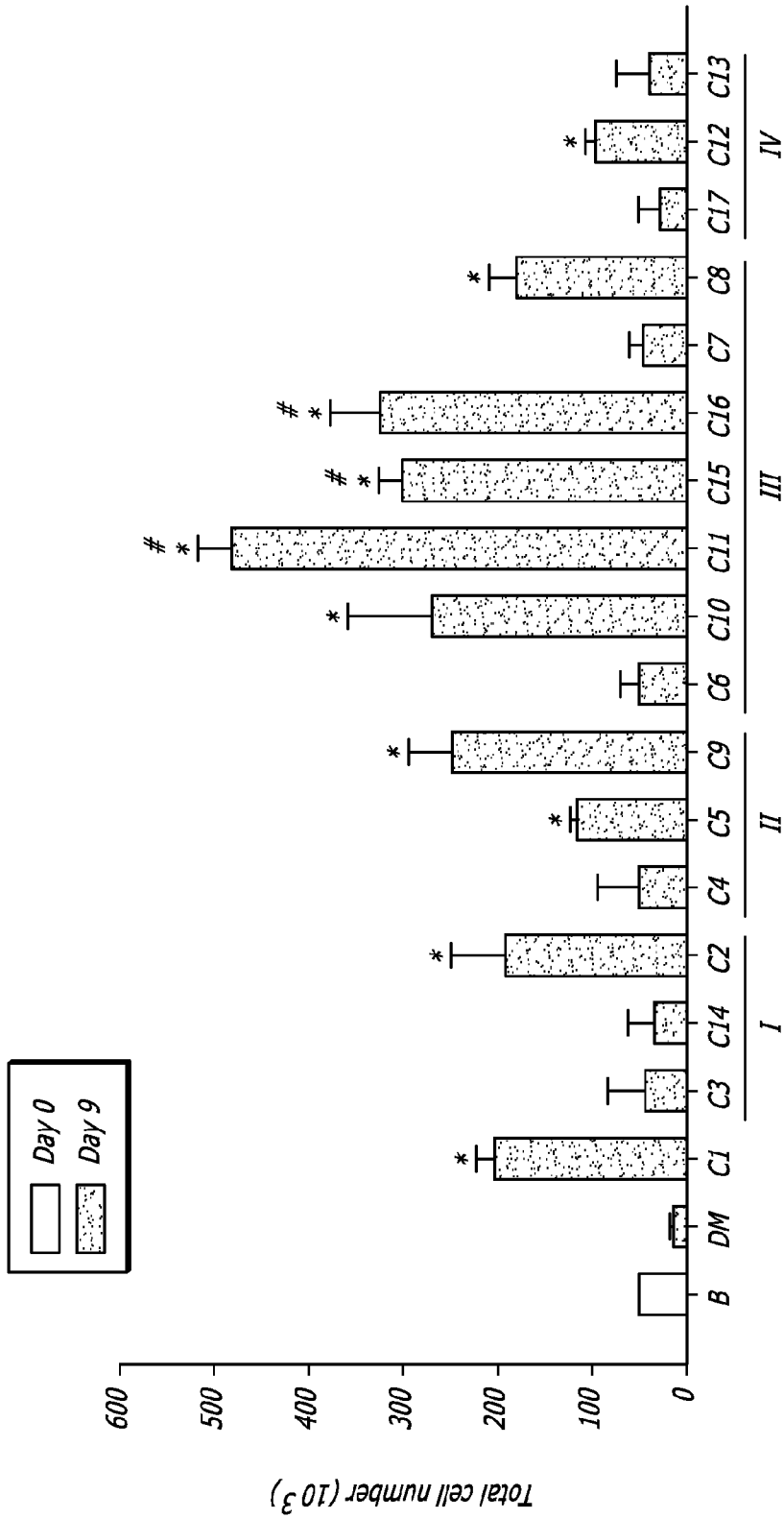


FIG. 14

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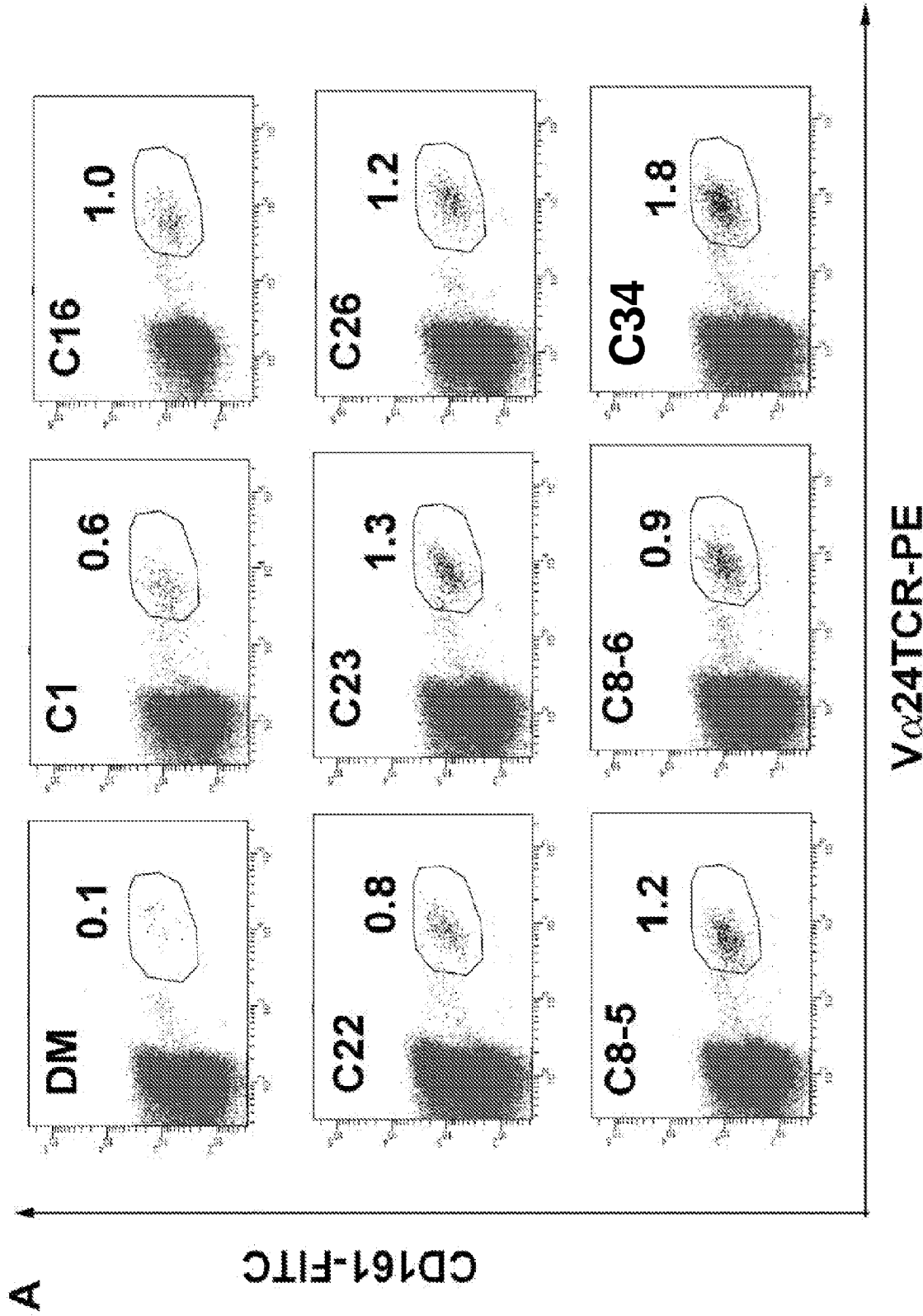
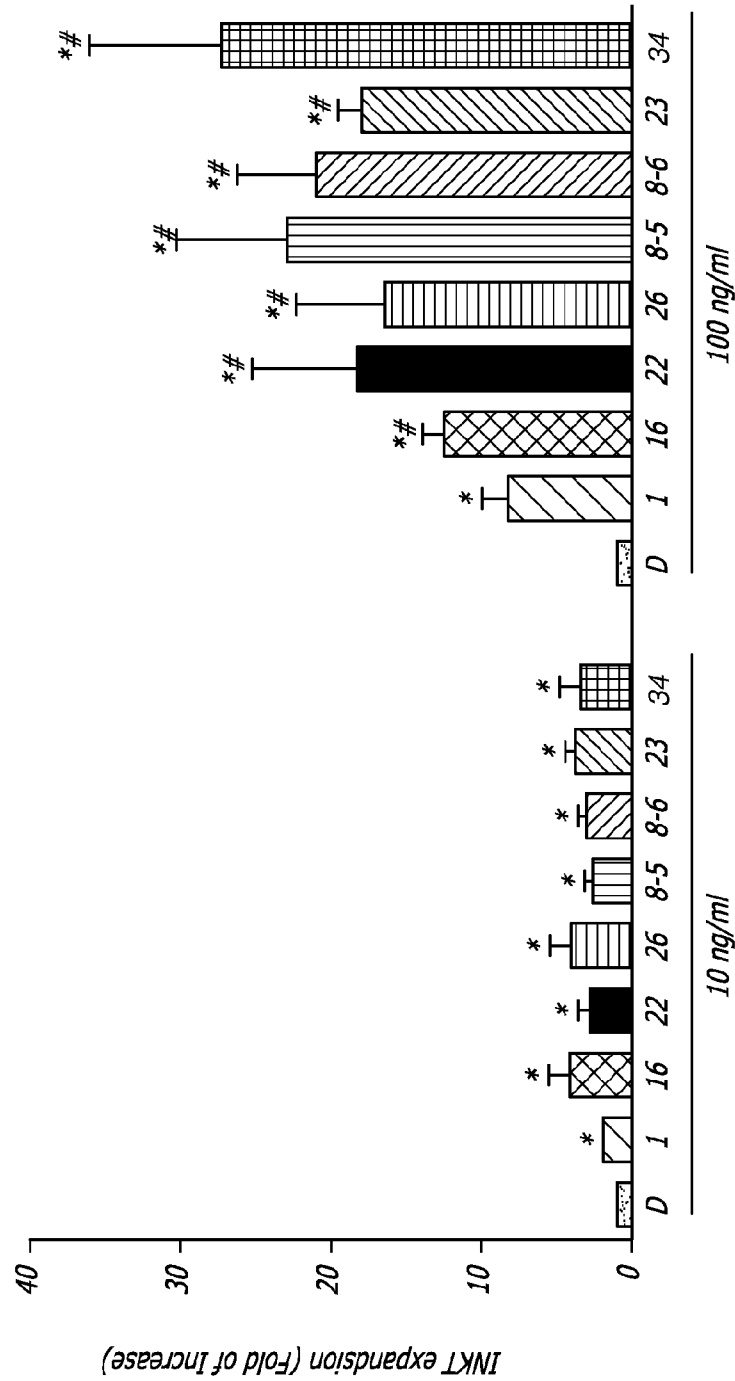


FIG. 15A

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FIG. 15B



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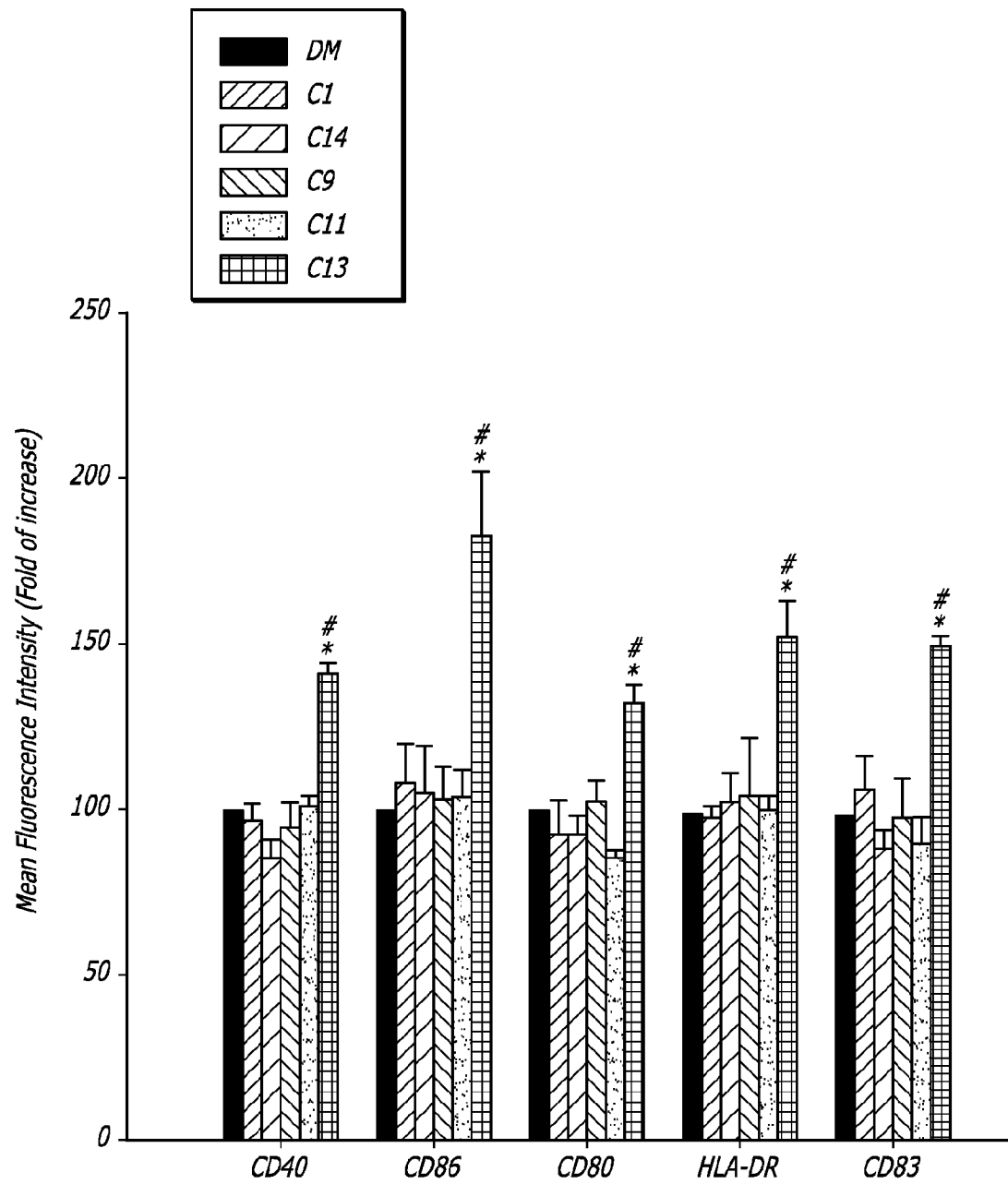
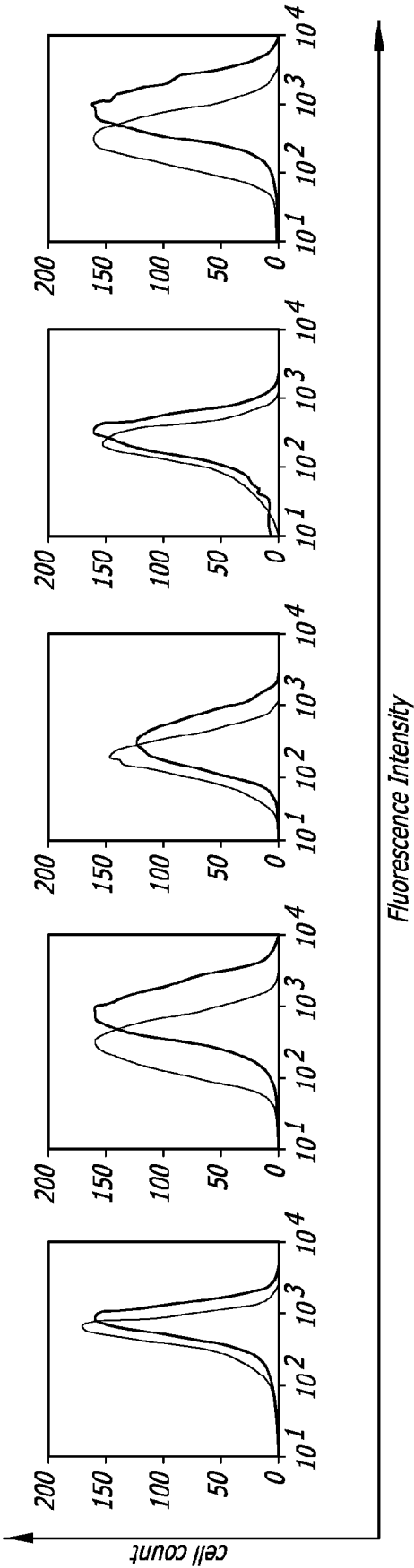
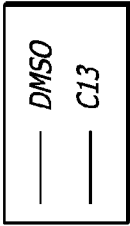
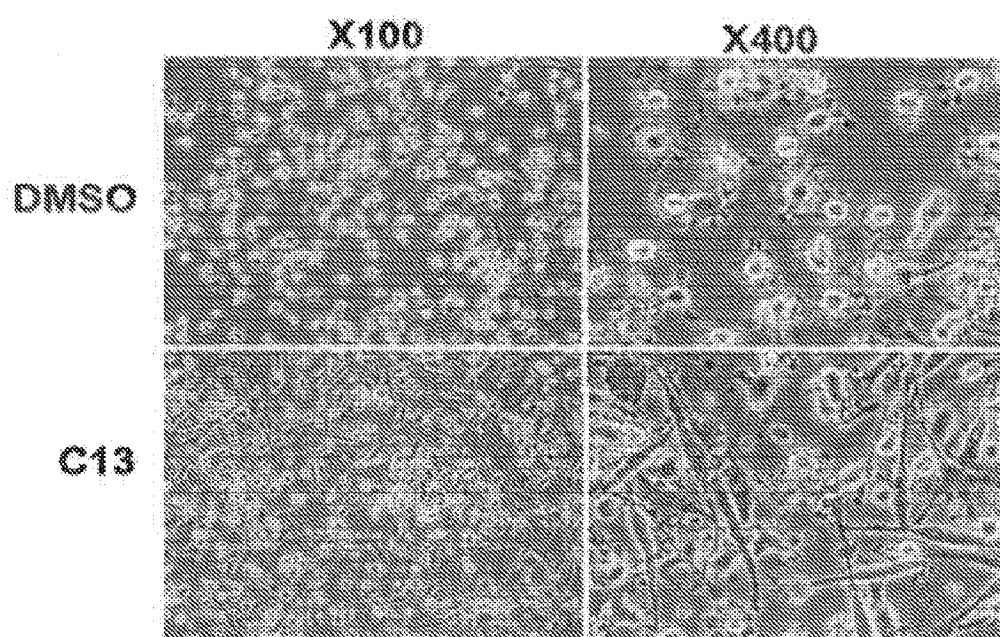


FIG. 16

FIG. 17A

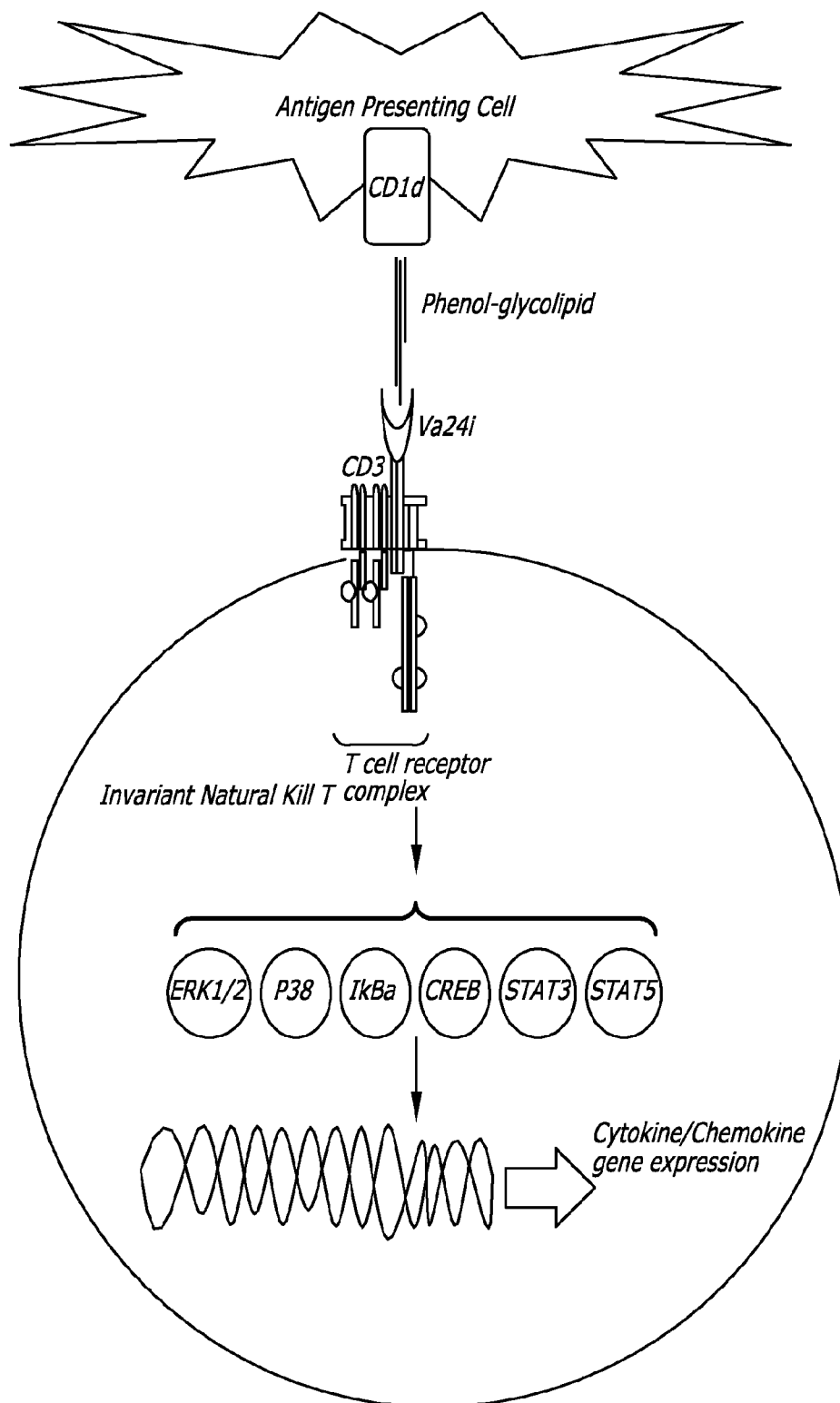


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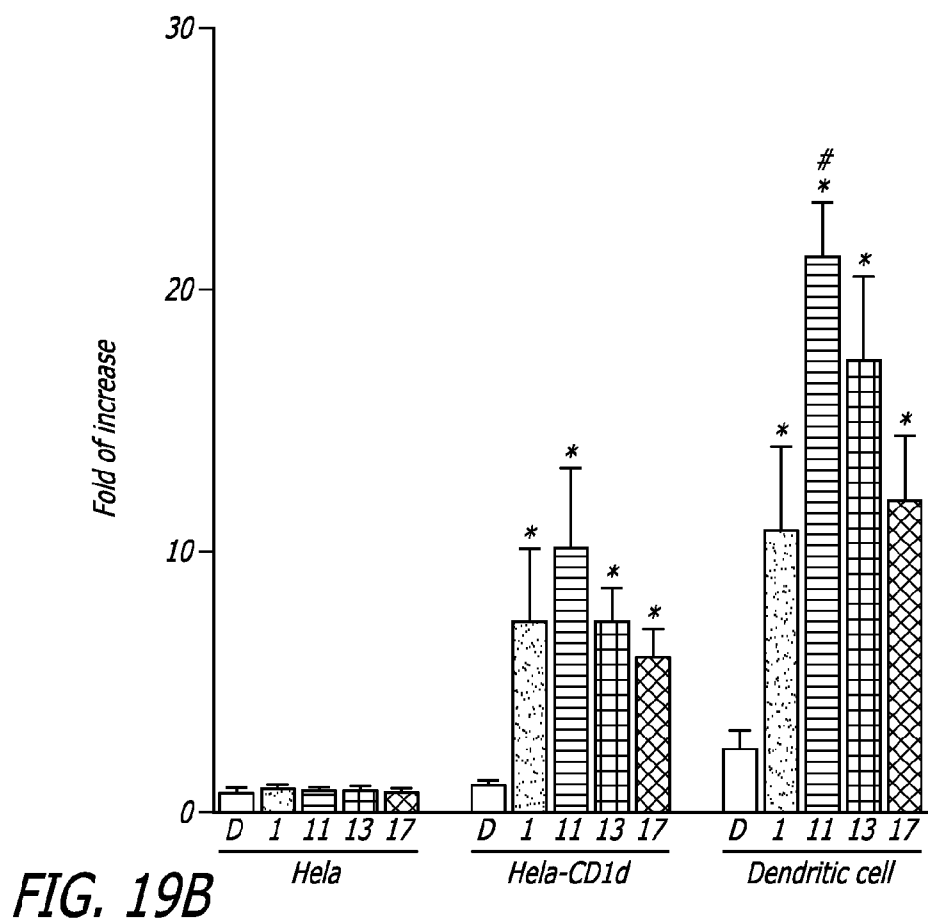
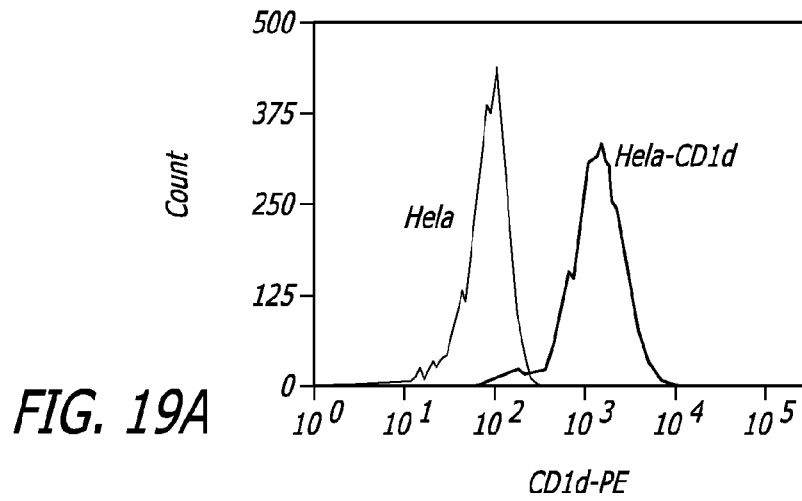
*FIG. 17B*

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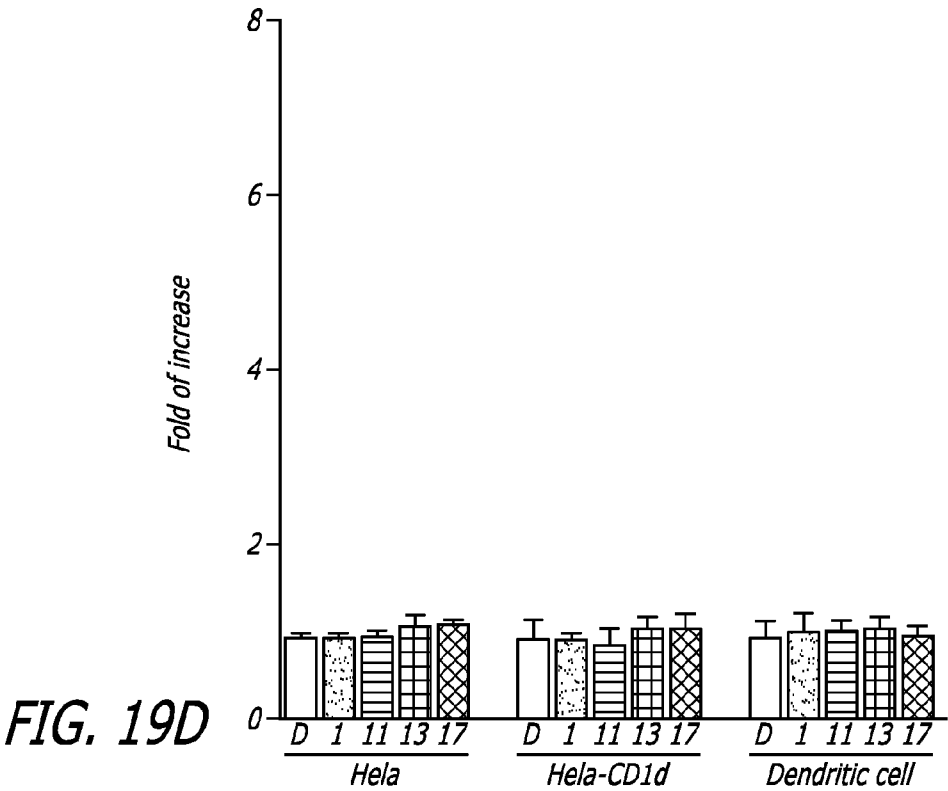
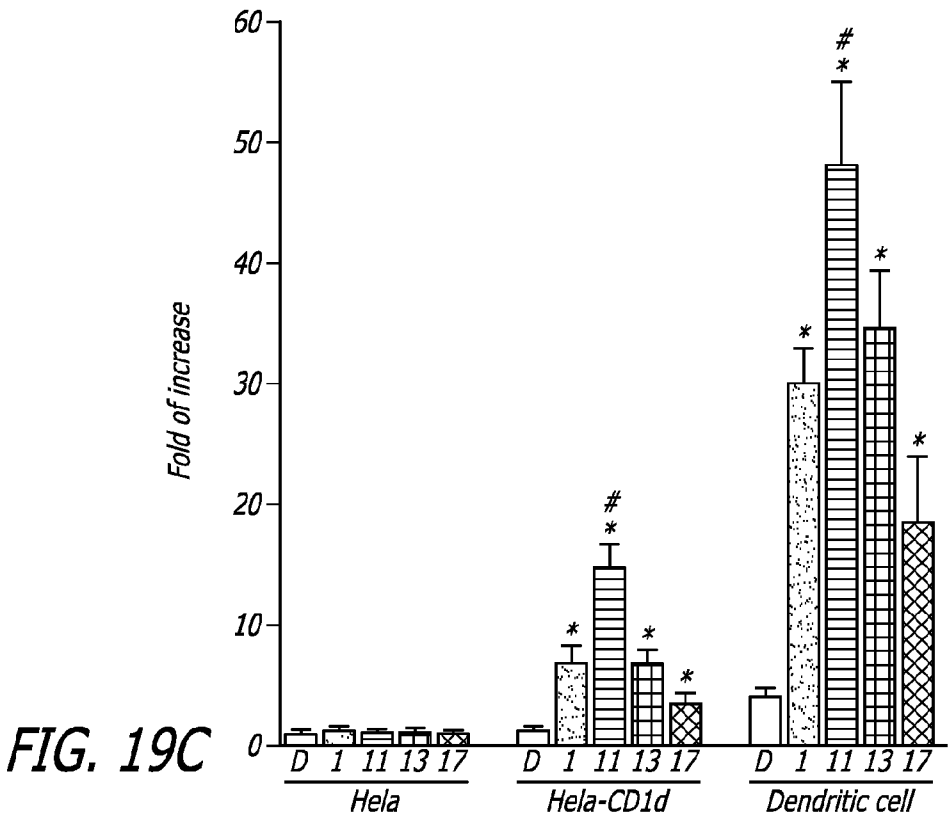
FIG. 18



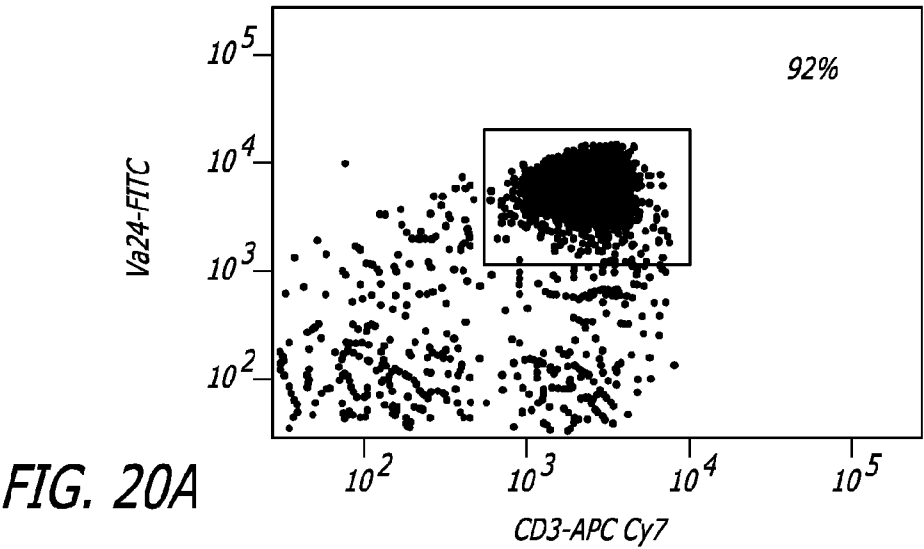
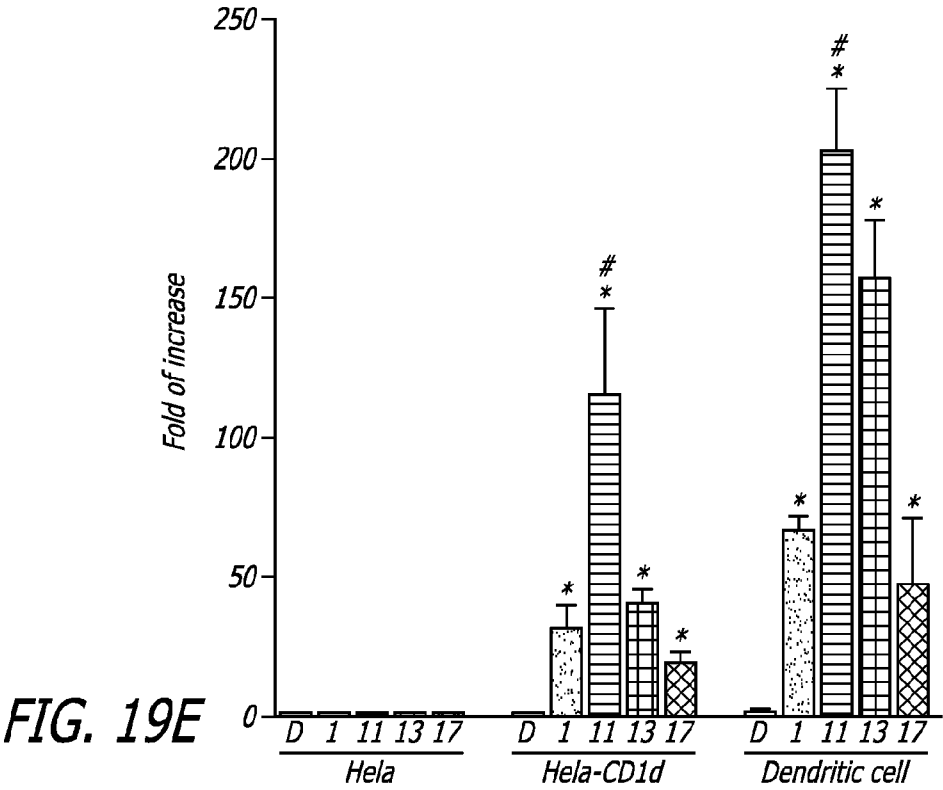
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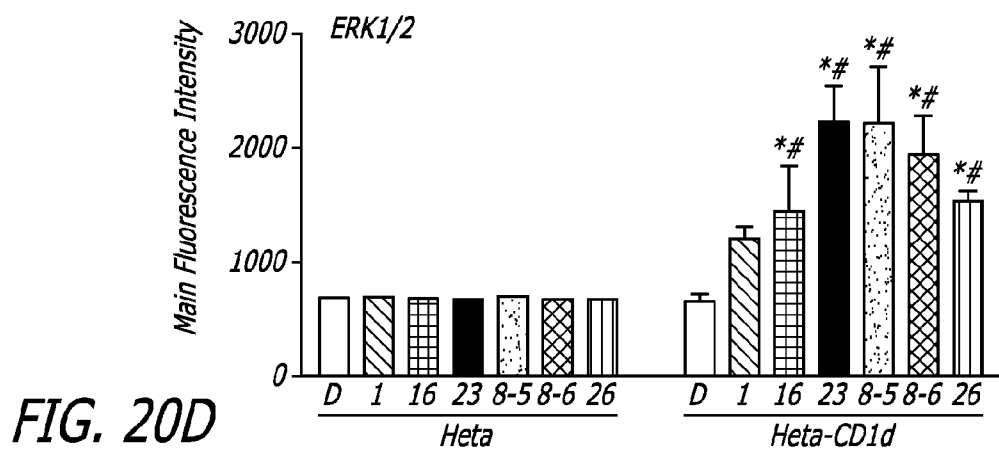
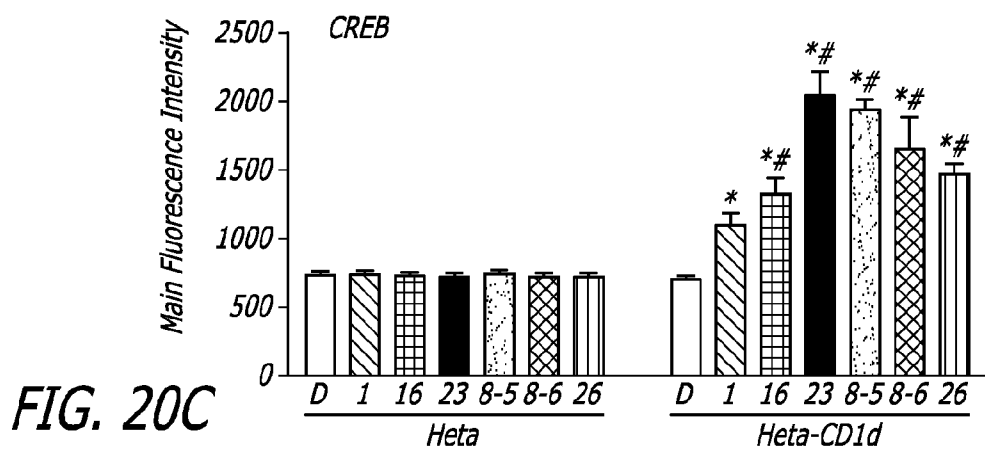
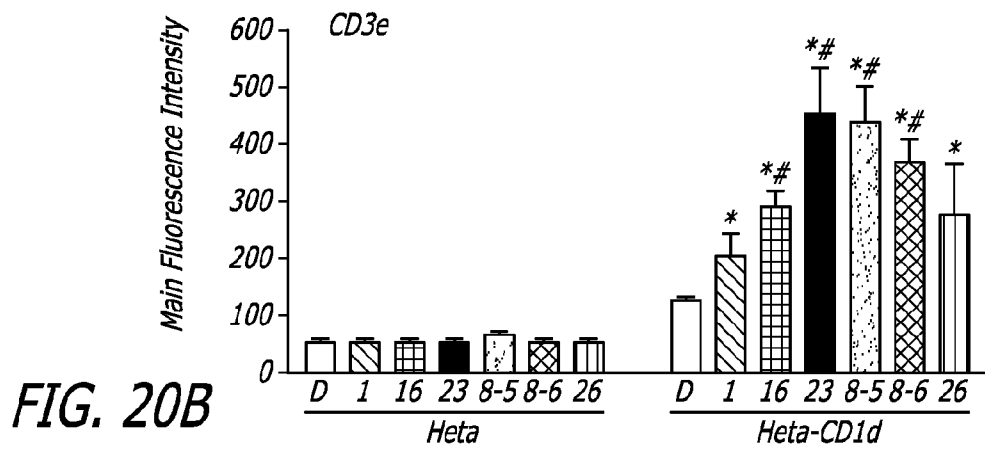
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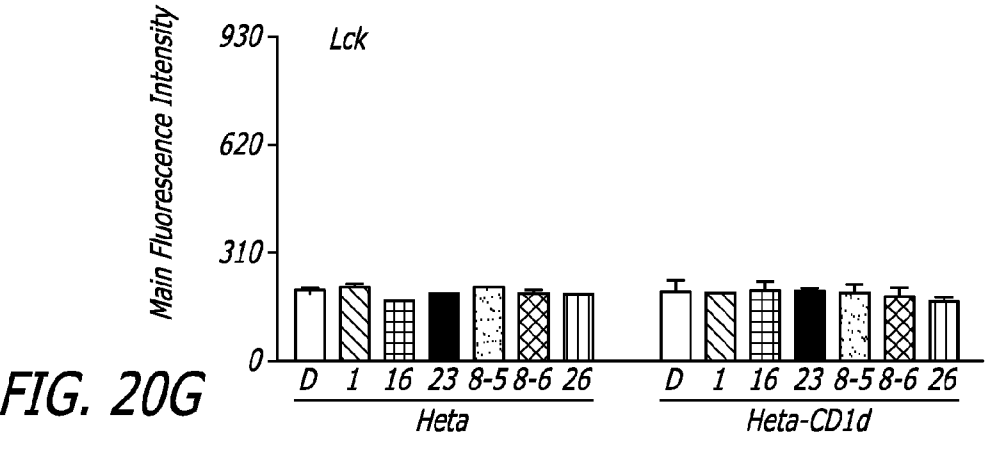
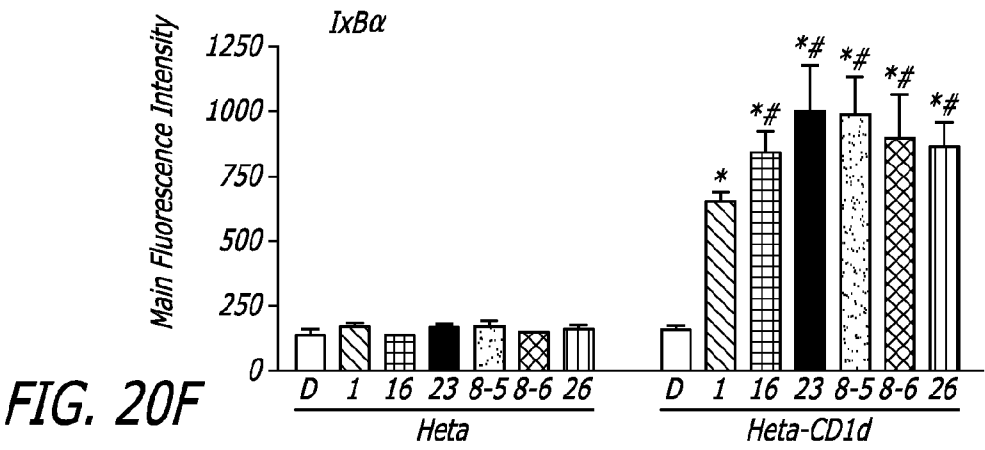
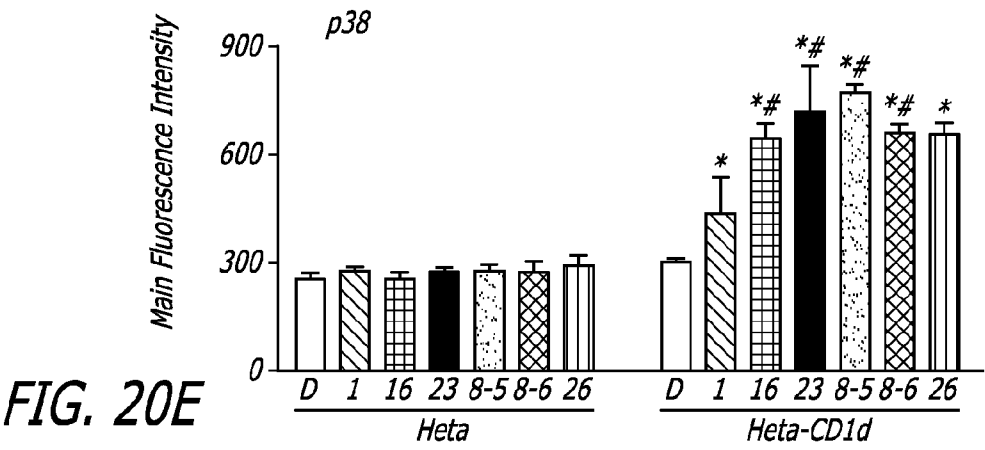
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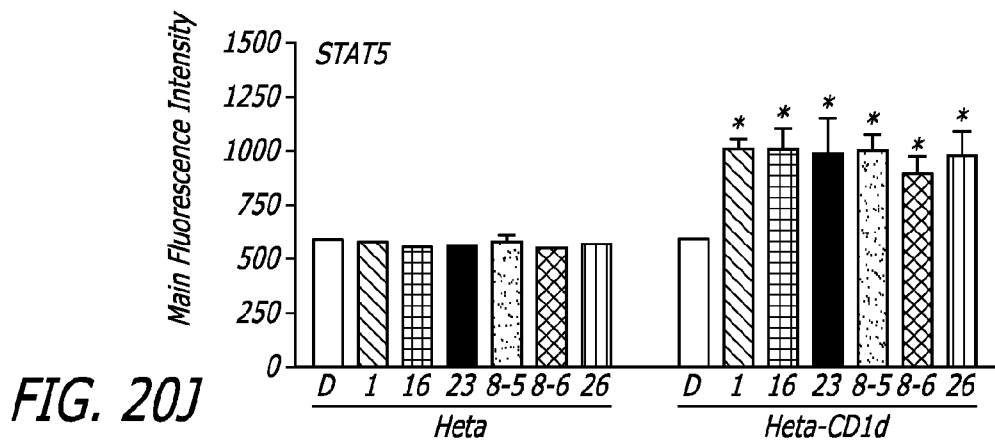
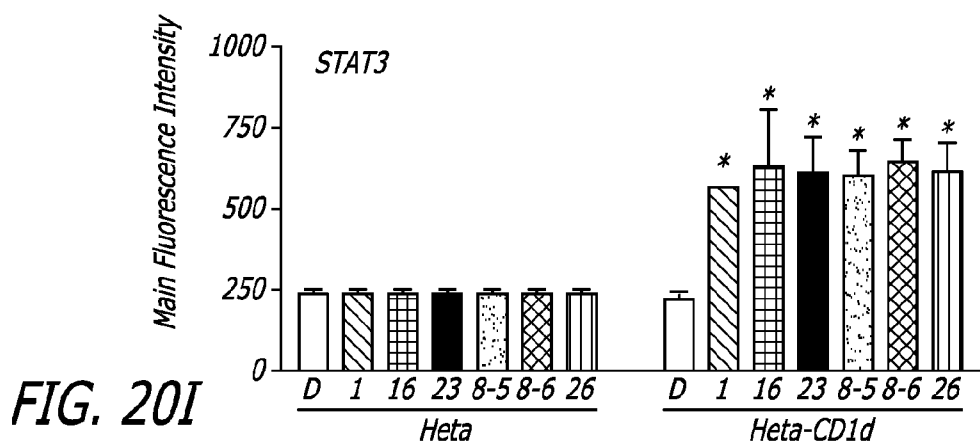
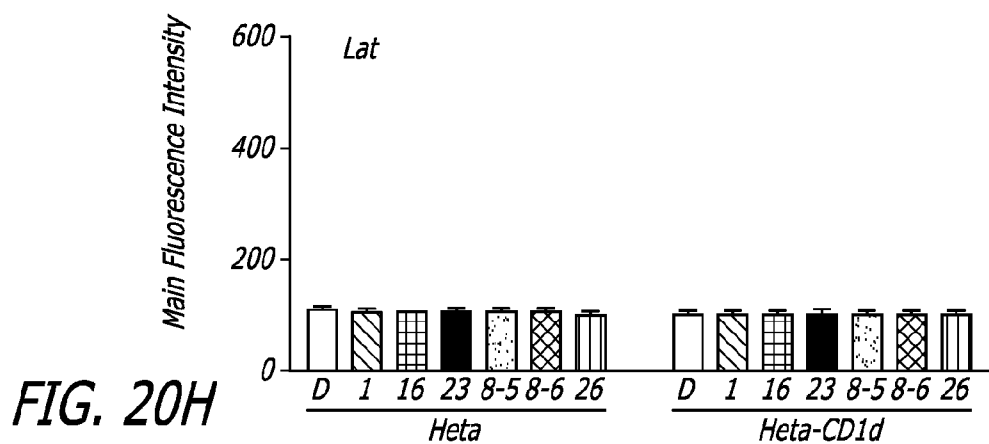
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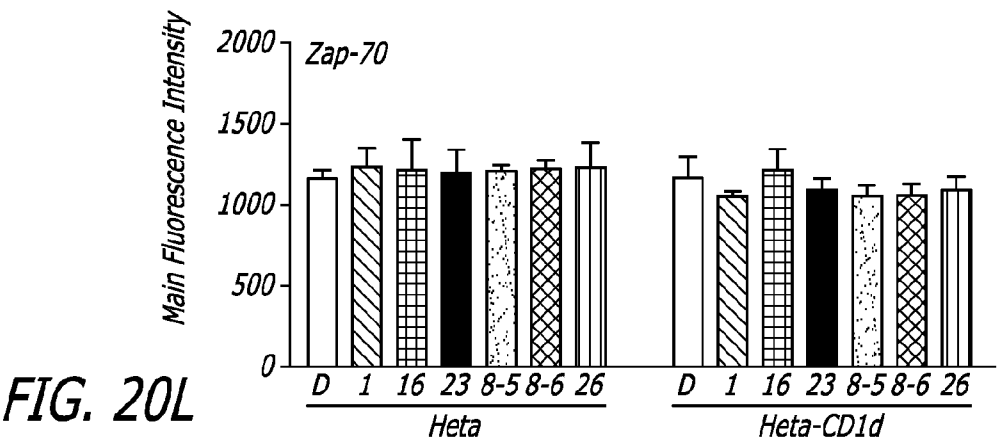
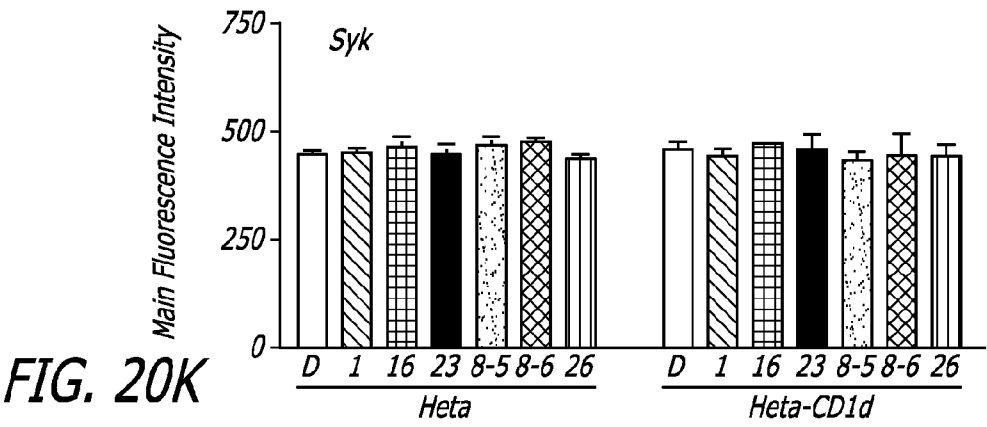
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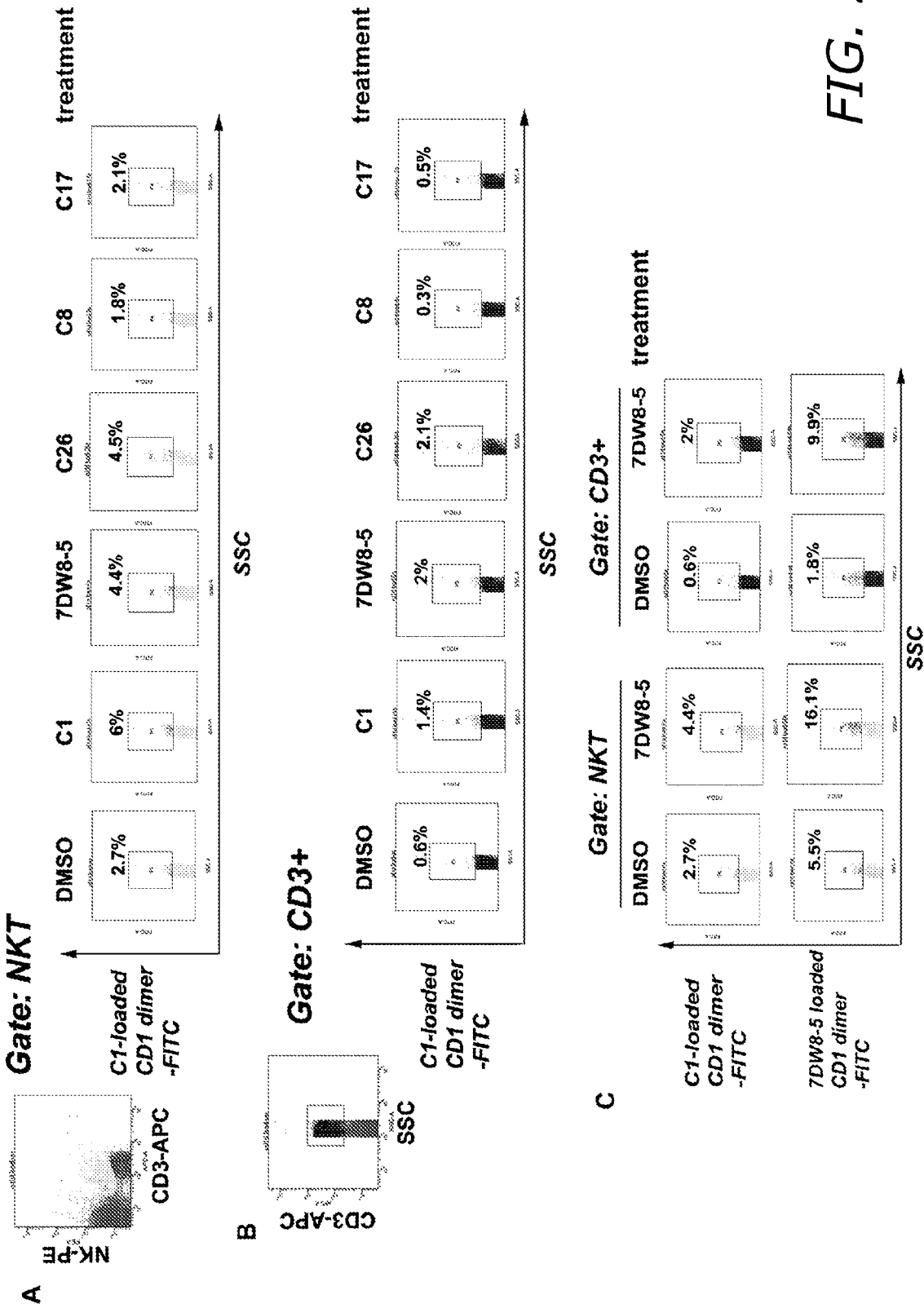


FIG. 21

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FIG. 22A

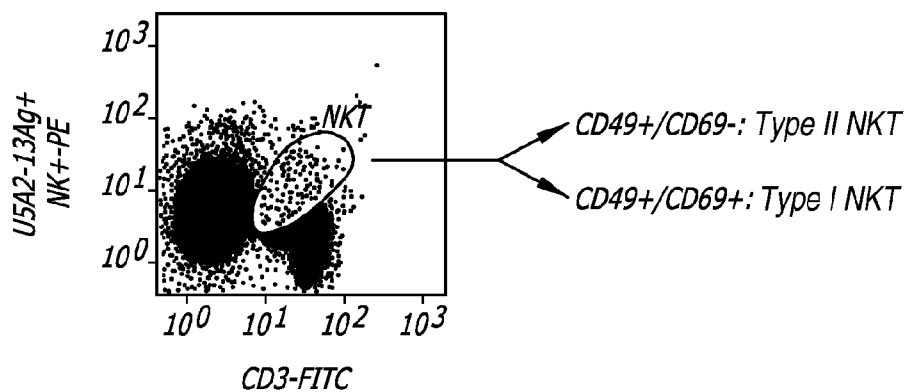
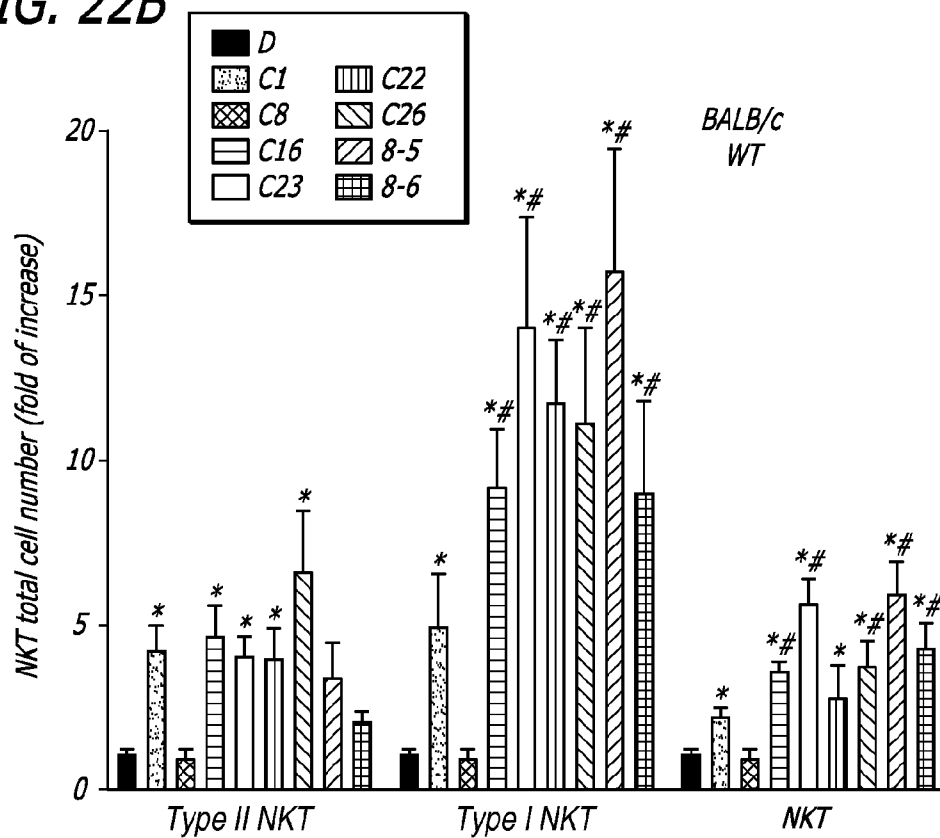


FIG. 22B



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FIG. 22C

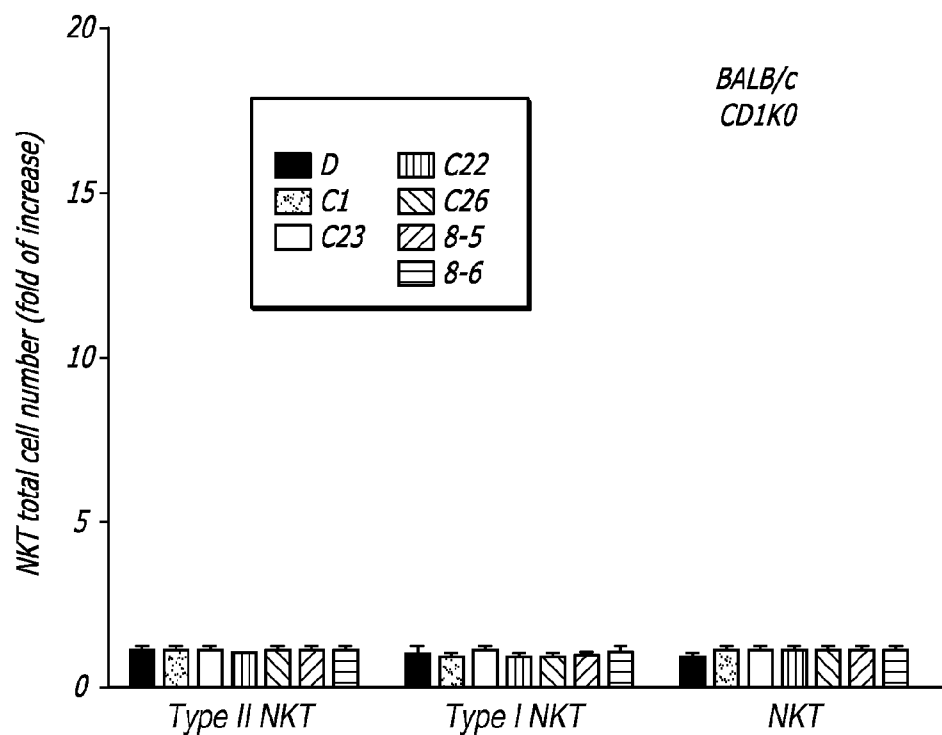
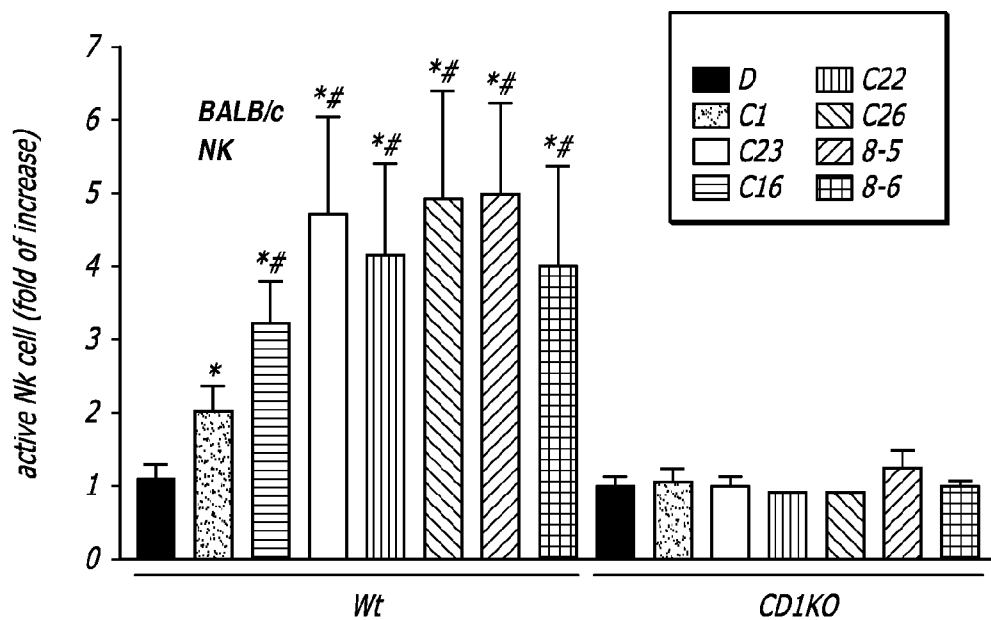


FIG. 22D



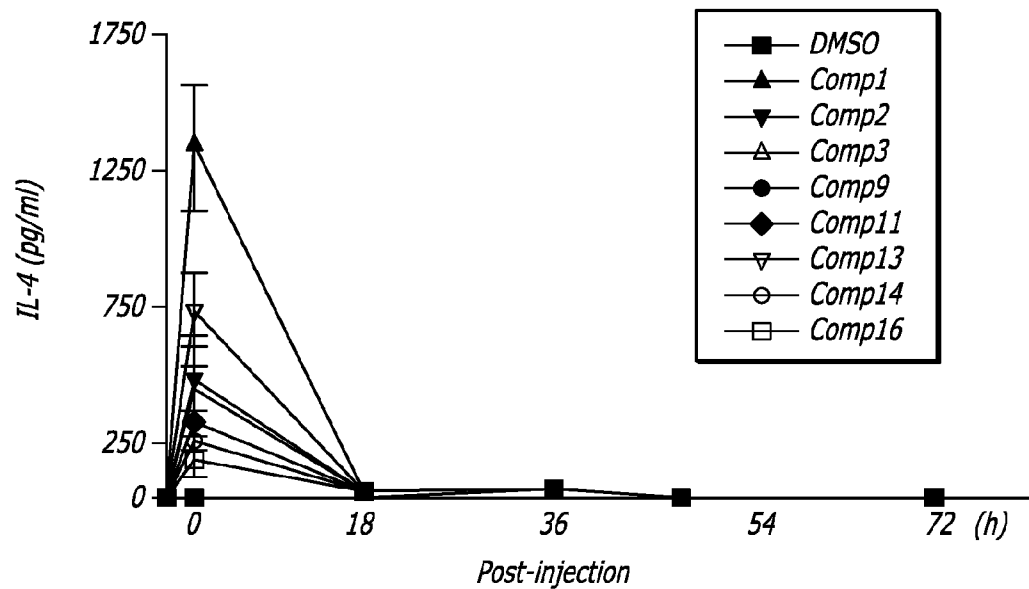


FIG. 23C

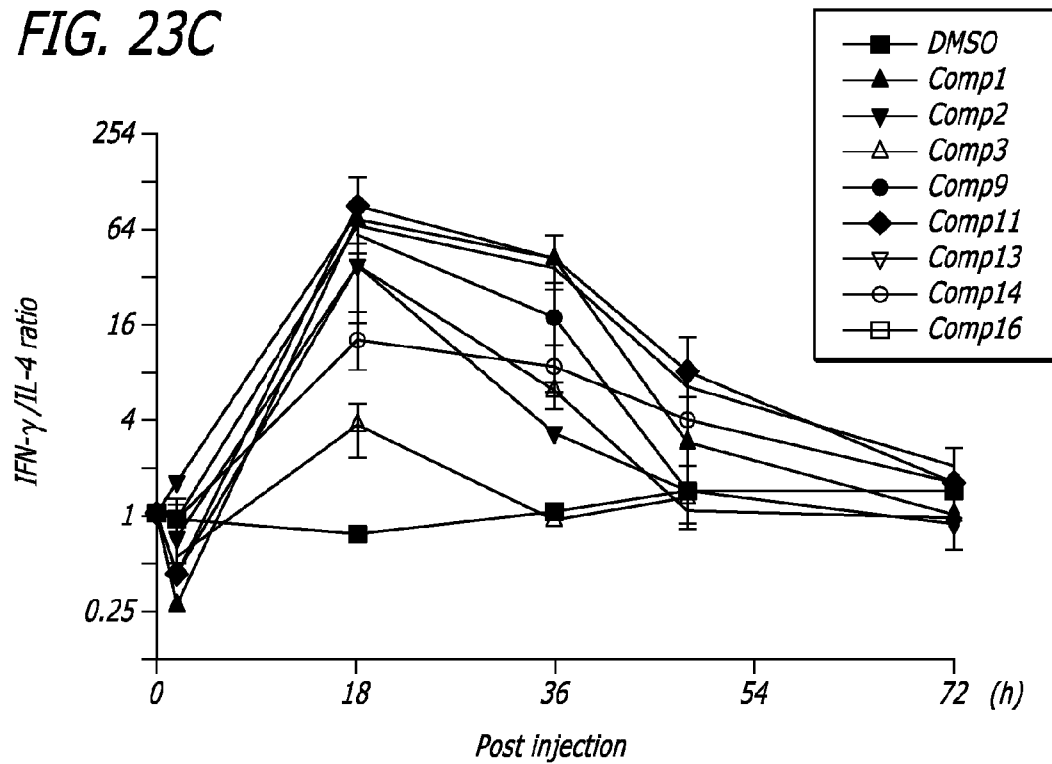
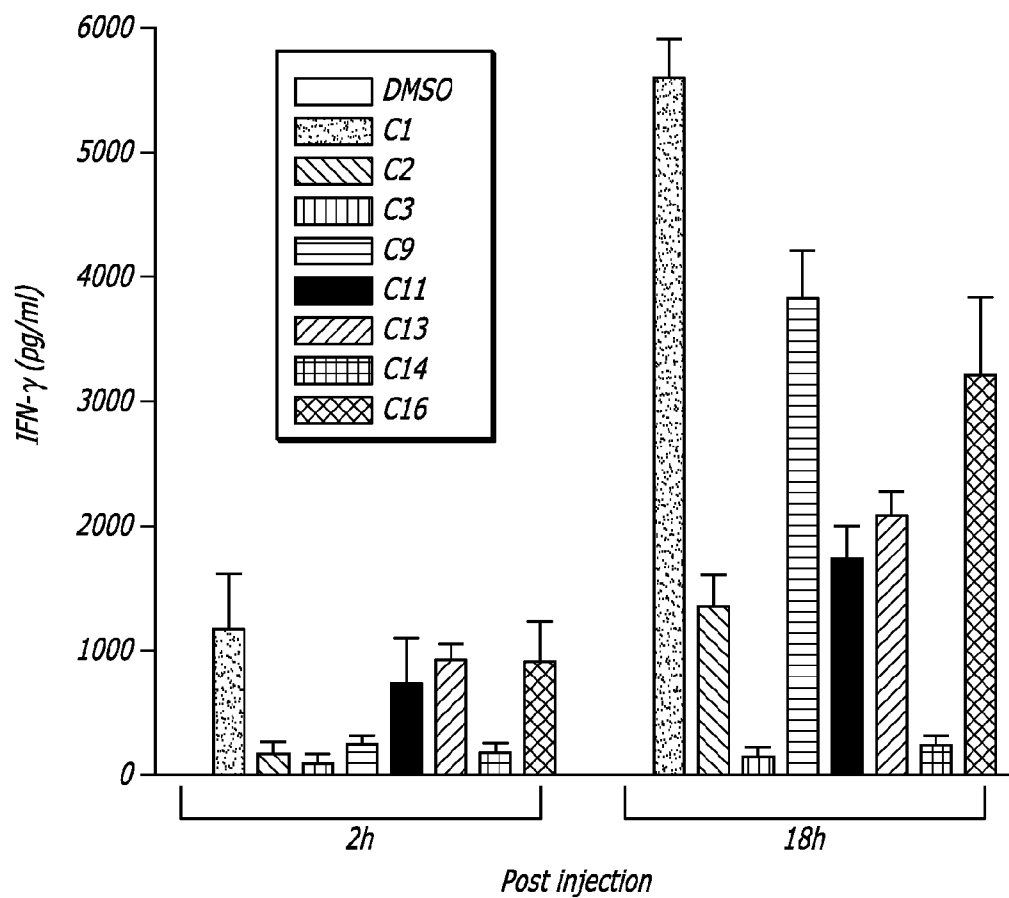
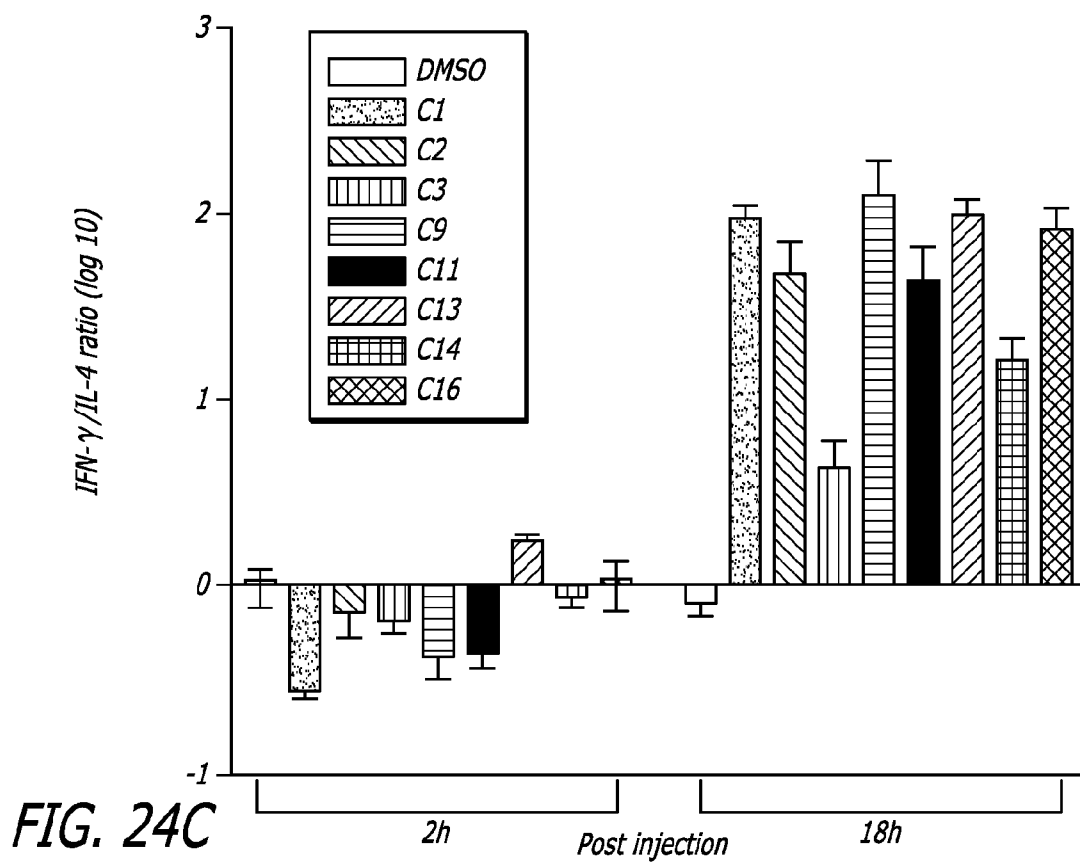
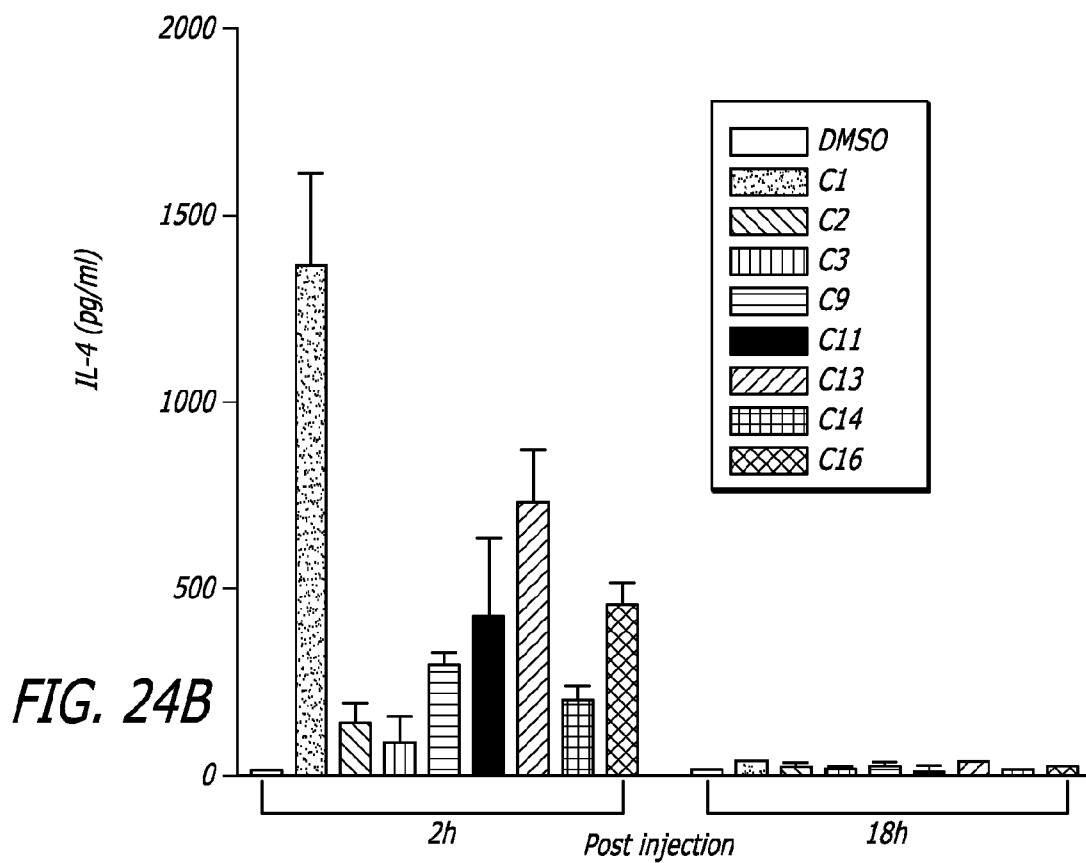


FIG. 24A



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FIG. 25

Mouse	basal	C1	C2	C3	C9	C11	C13	C14	C16
TH1 bias	pg/mL	fold	fold	fold	fold	fold	fold	fold	fold
IFN- γ *	20.4	300	43.8	3.1	160.8	48.3	122.5	27.5	166.1
IL-1 β	85.3	7.8	2.4	2	3.2	4.7	3.4	4.8	3.4
IL-2	14.8	58.9	14	17.2	22	70.3	75.3	21.5	50.5
IL12 p70*	109	3.2	3.5	1.2	1.4	2.6	6.6	1.4	1.6
IL-12 p40*	69.4	2.8	0.9	1.9	2.1	3.8	3.5	4.4	2.4
RANTES	278	2.6	0.9	0.9	1.6	2.3	2.1	2.8	2.2
MIP- β	291	3.6	1.5	1.4	2.5	3.8	5.3	1.8	5.1
MCP-1	122	18.7	2.6	5.6	14.8	19.4	32.9	8	23.6
KC	180	30.5	3.9	7.6	16.4	11	19.2	16.1	6.9
TNF α *	8	51	2	6	36.3	22.4	38.8	8.7	45.6
IL-3	8.35	3	1.5	2.8	1.8	2.4	2.3	10.4	1.9
GM-CSF	82.8	13.1	1.6	4.9	7.3	2.9	7.9	37.6	2.7
TH2 bias									
IL-4	7.46	240	26.2	26.8	42.9	53.1	115	21.2	49.6
IL-6	33.1	5.5	1.5	1.7	2.2	2.8	6.3	4.9	5.8
IL-10*	81.2	3.6	5.4	1.1	2.4	1.3	2.2	1.5	1.3
IL-13	75.8	15.1	0.9	2.3	2.4	10.9	12.6	1.7	7.7

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FIG. 26A

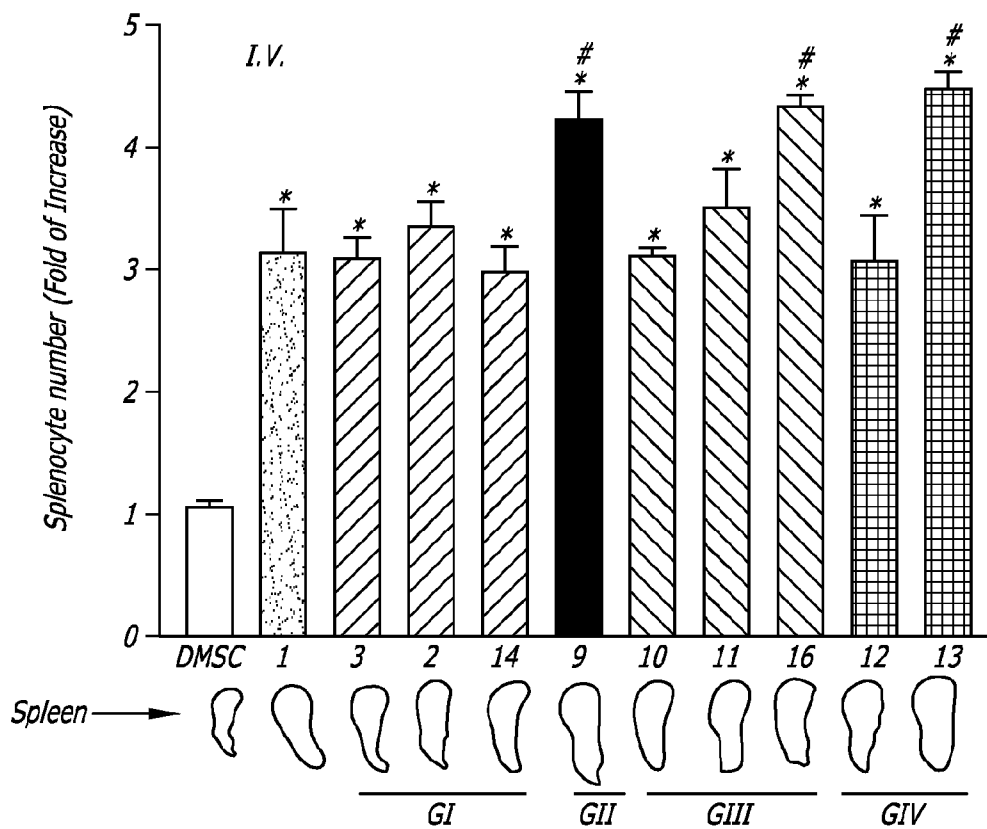
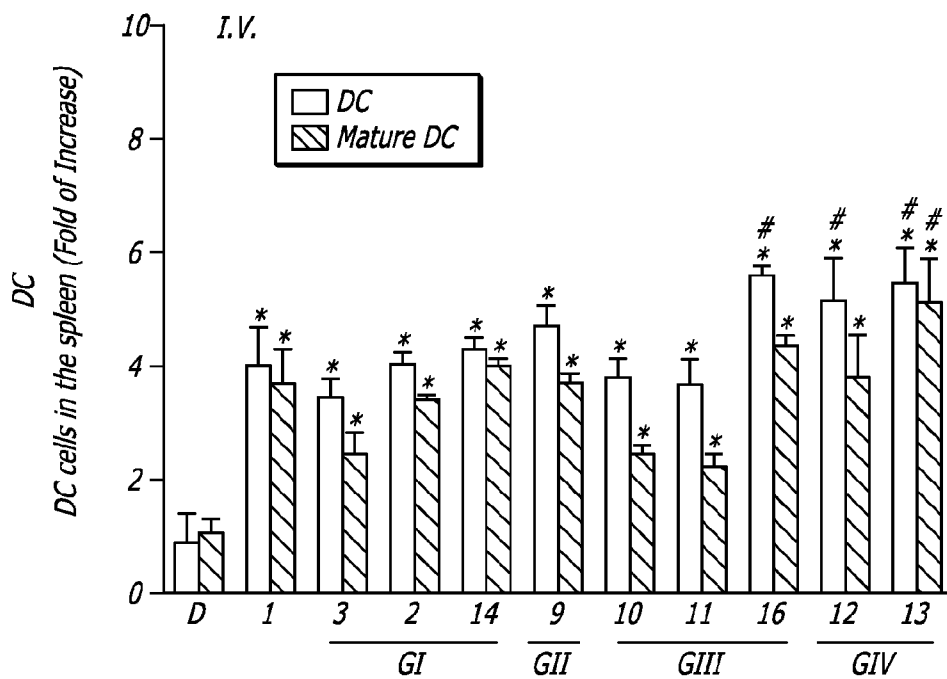


FIG. 26B



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FIG. 26C

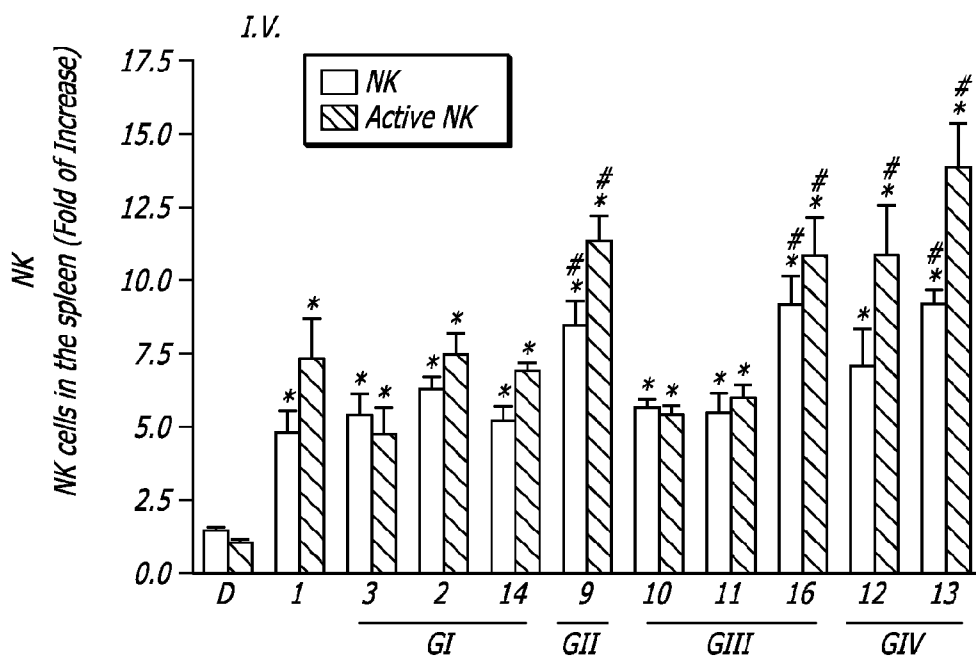
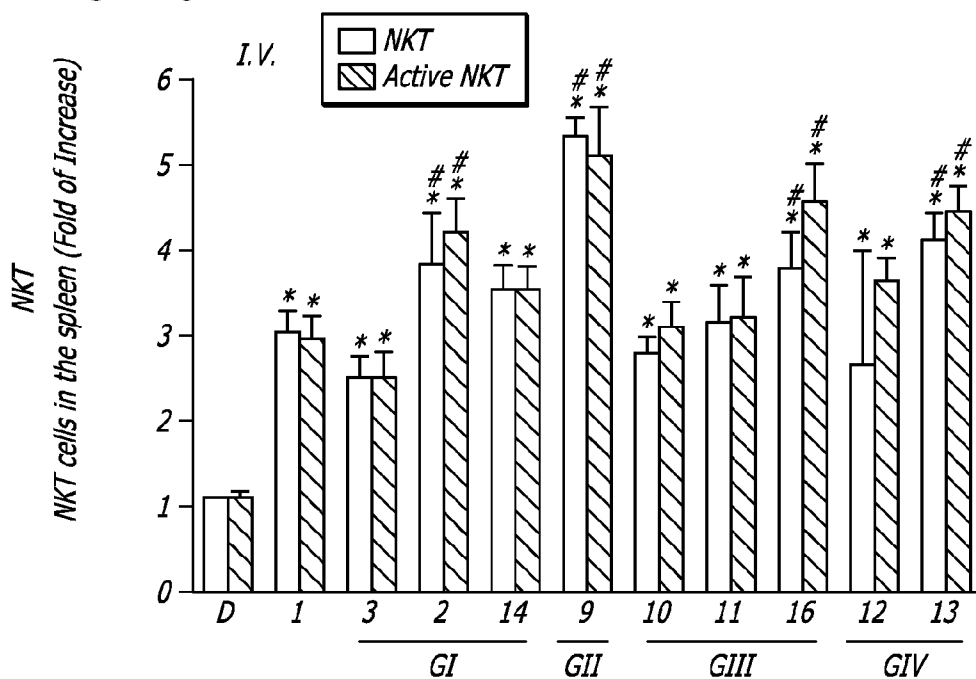


FIG. 26D



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FIG. 26E

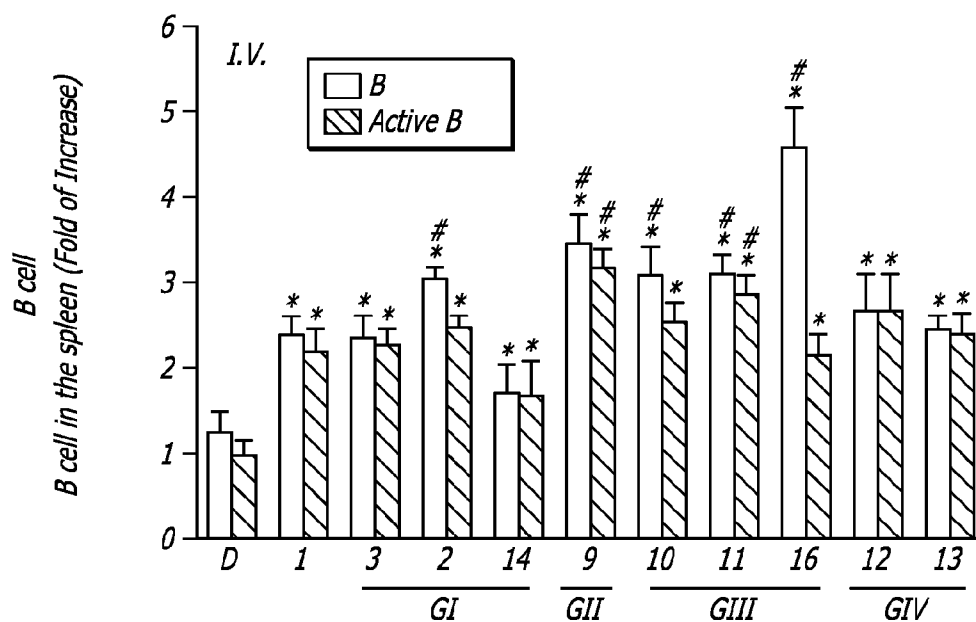
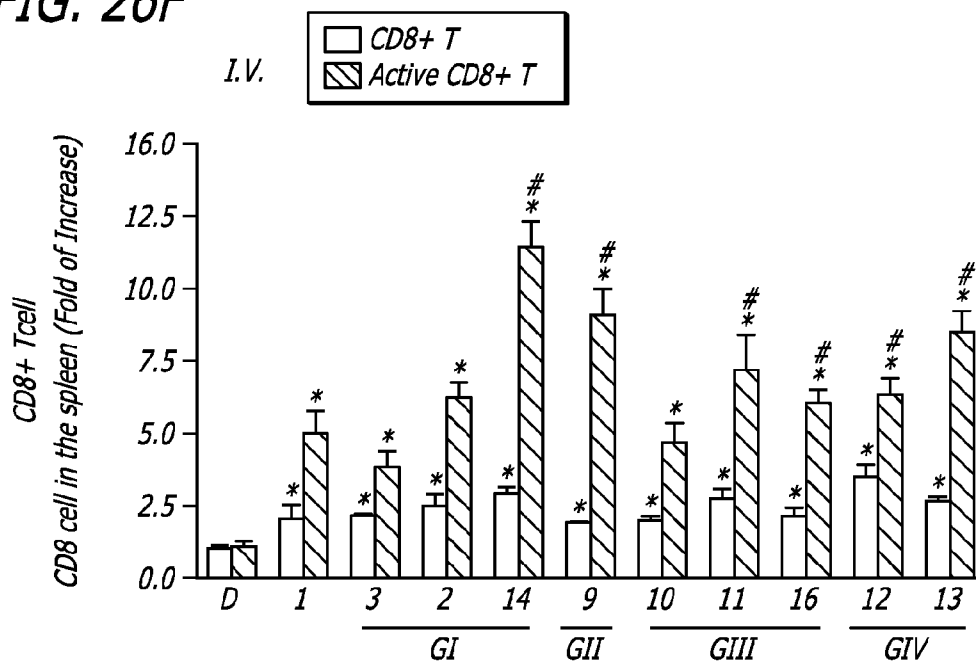
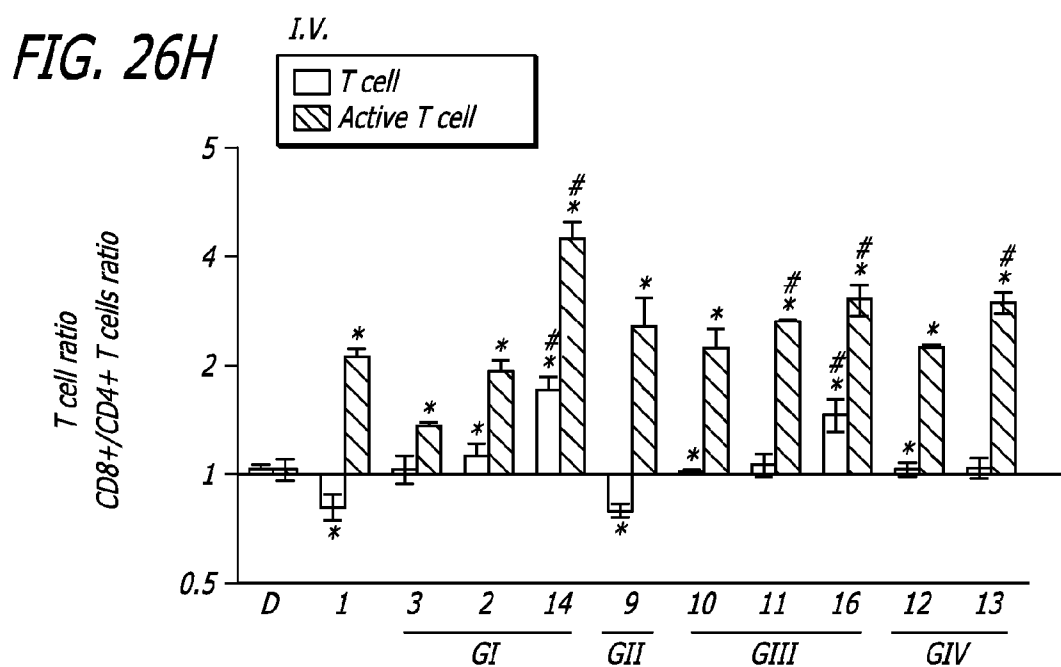
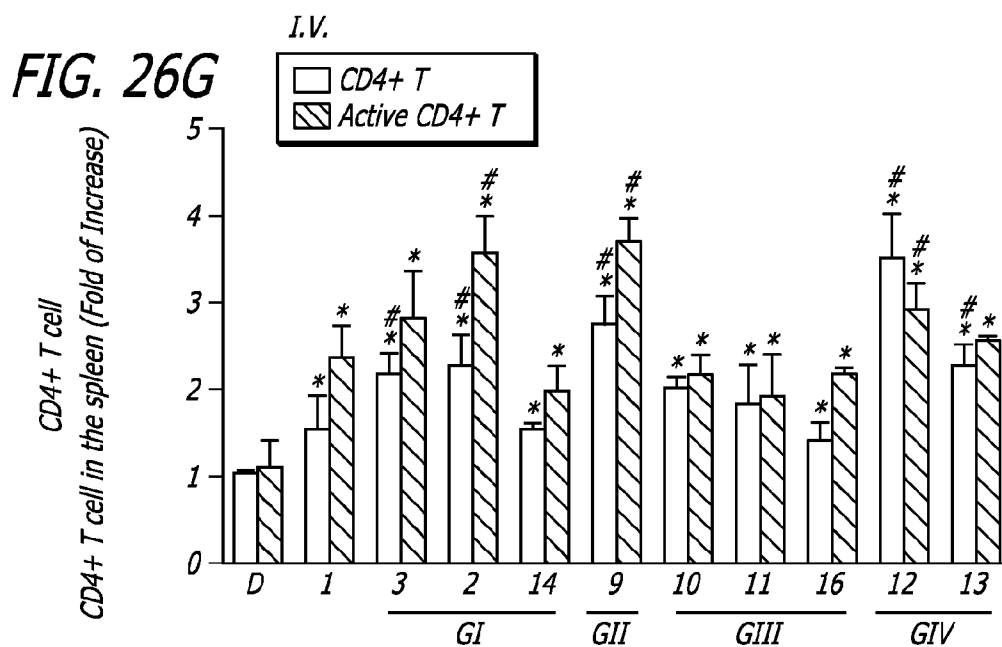


FIG. 26F



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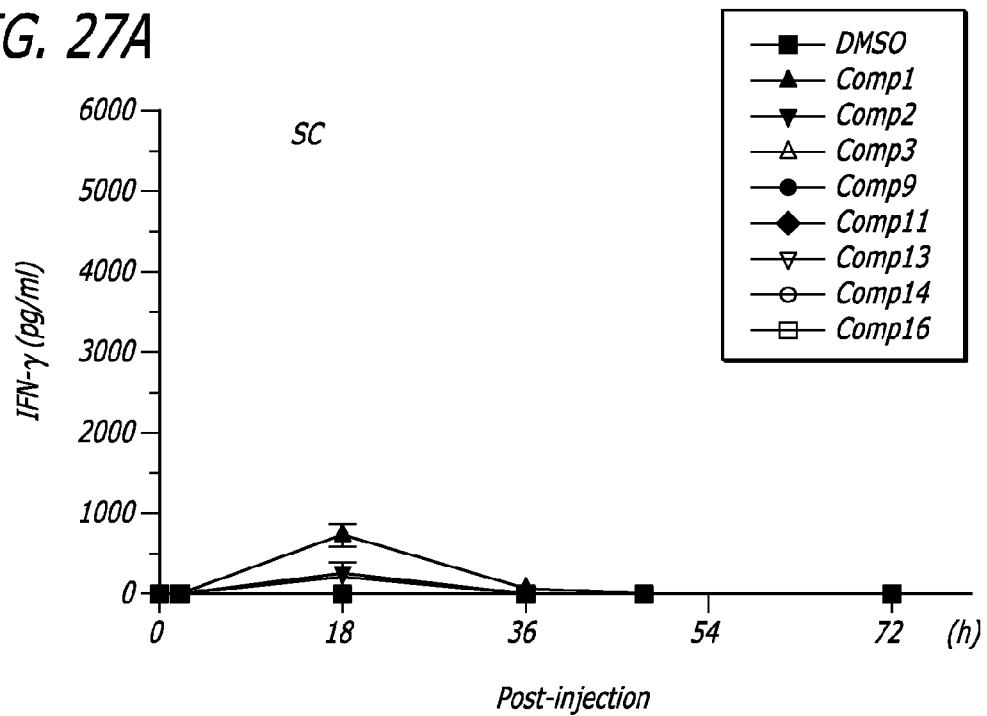
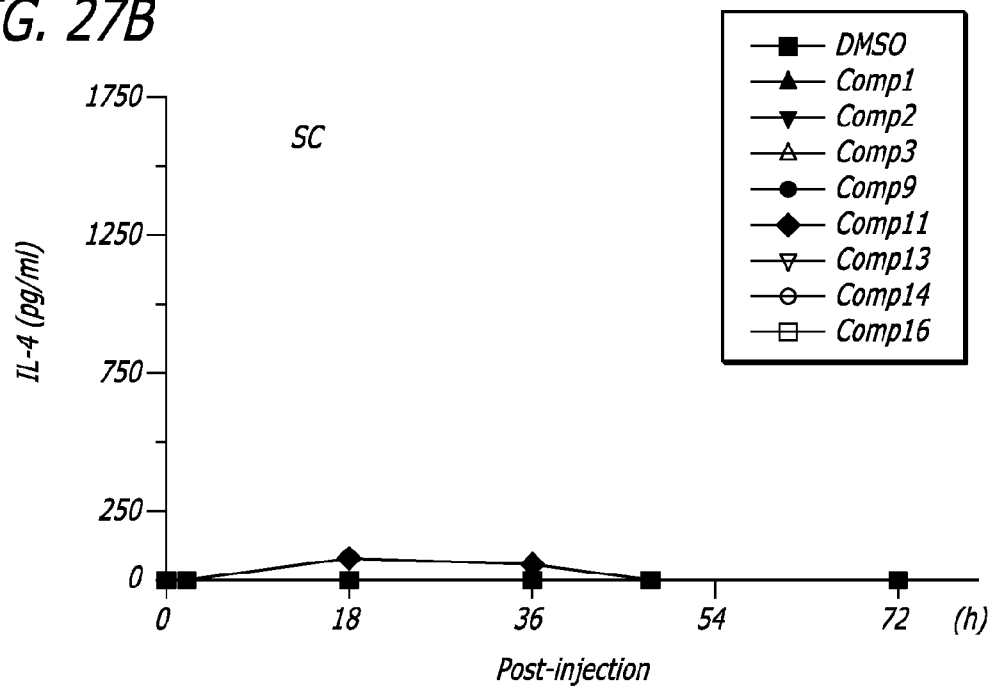


FIG. 27B



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FIG. 27C

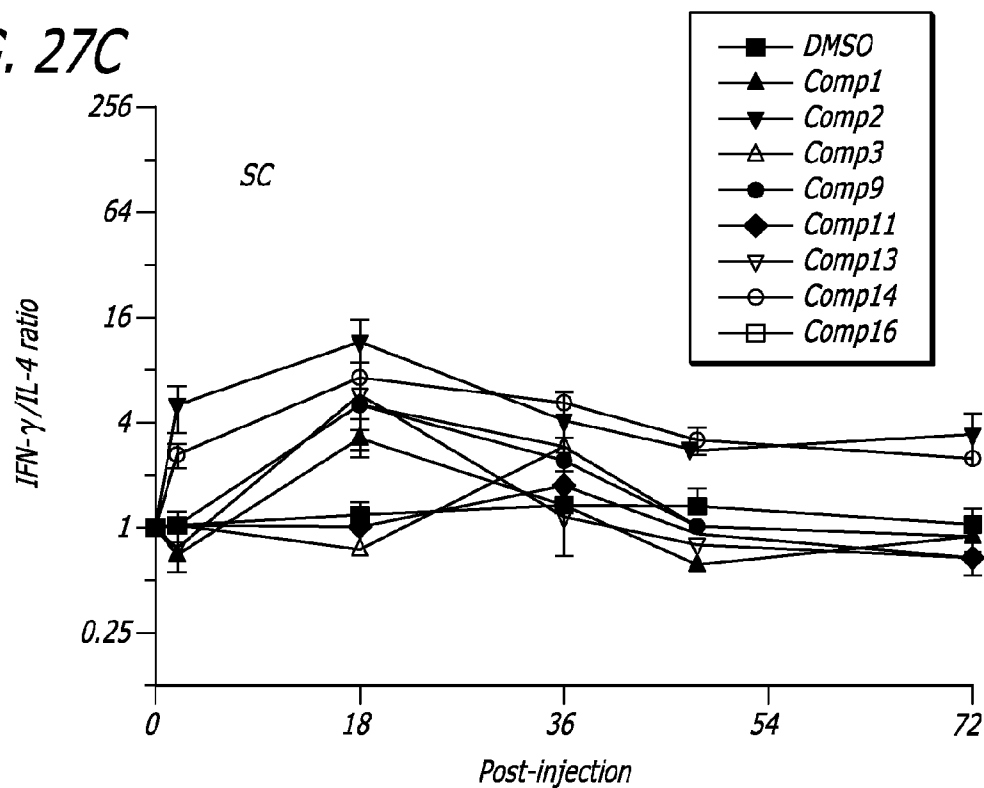
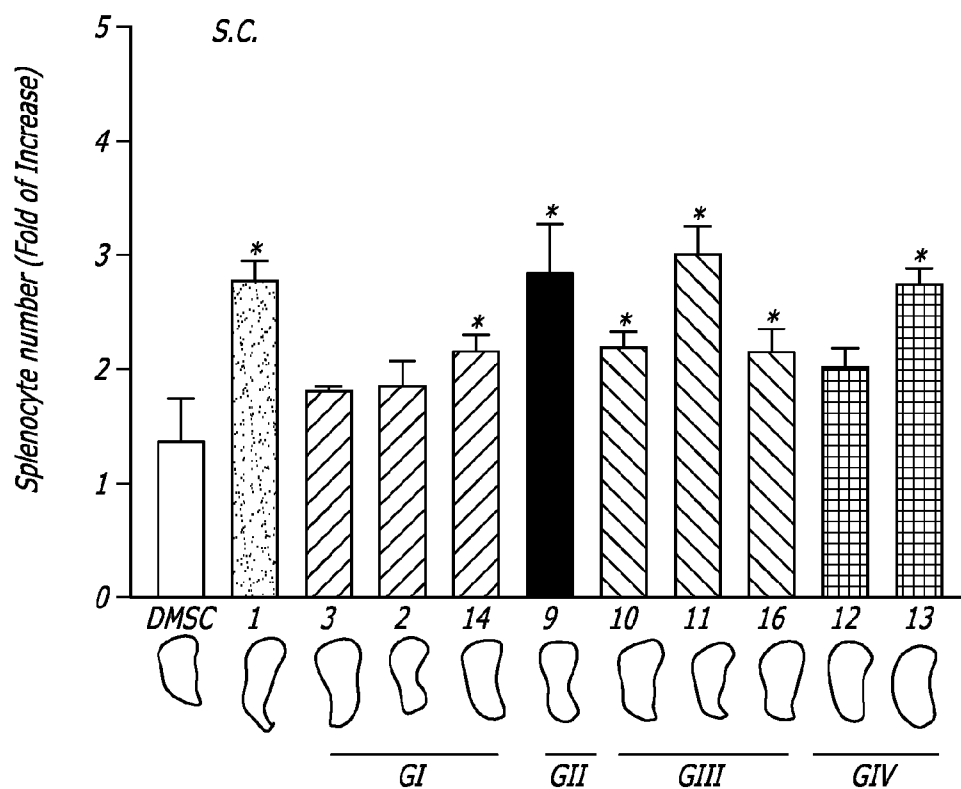


FIG. 28A



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FIG. 28B

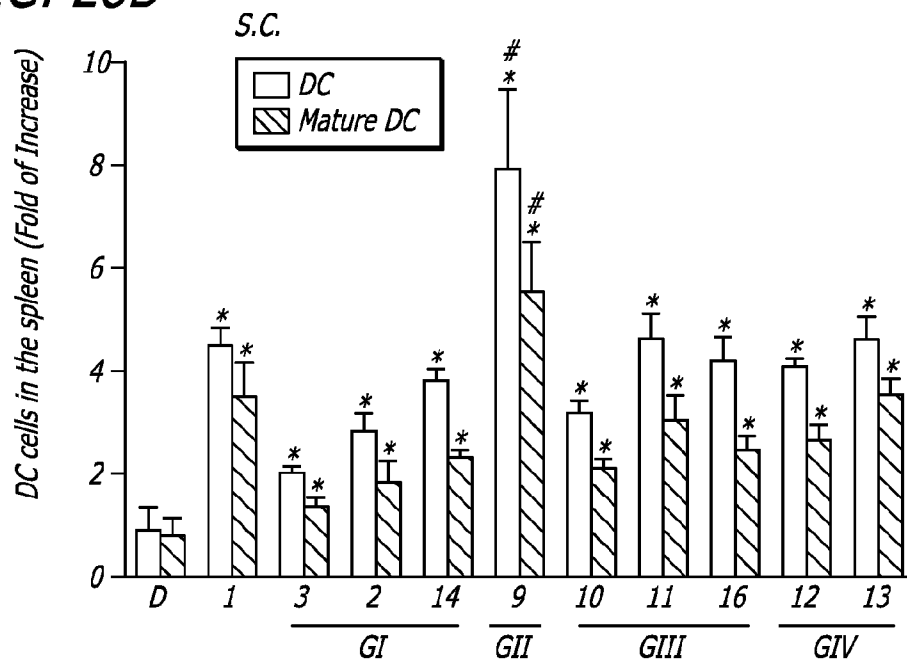
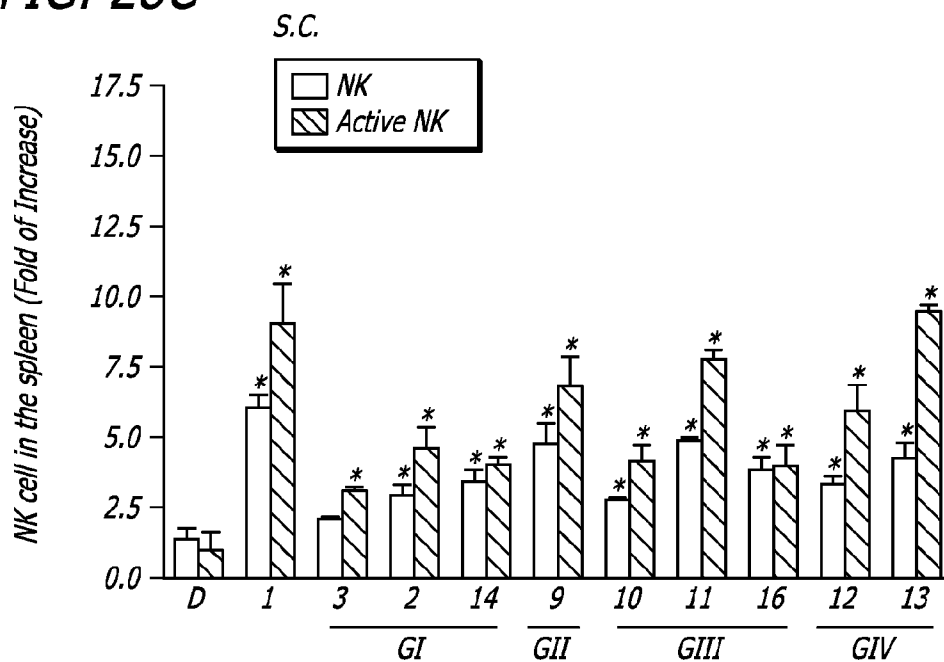


FIG. 28C



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FIG. 28D

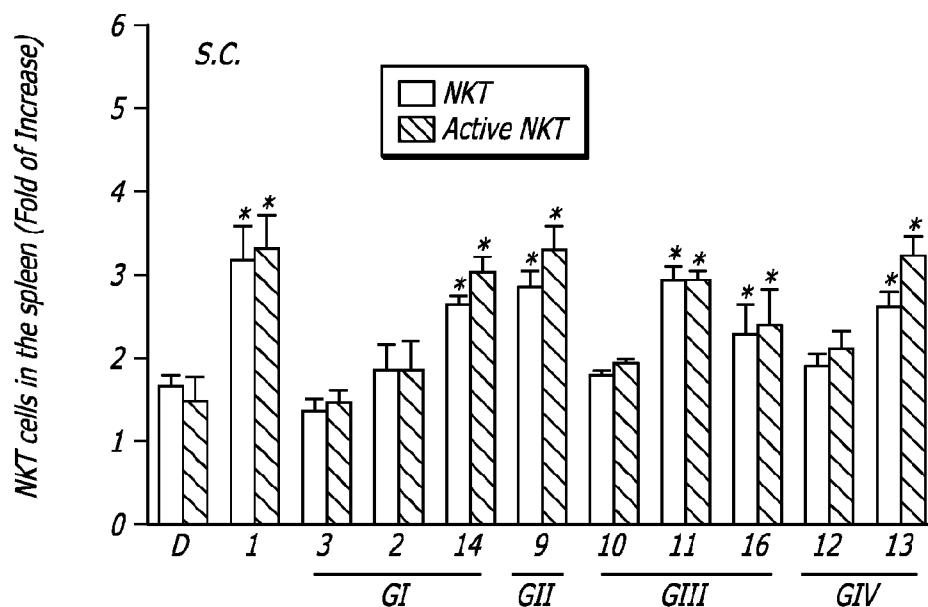
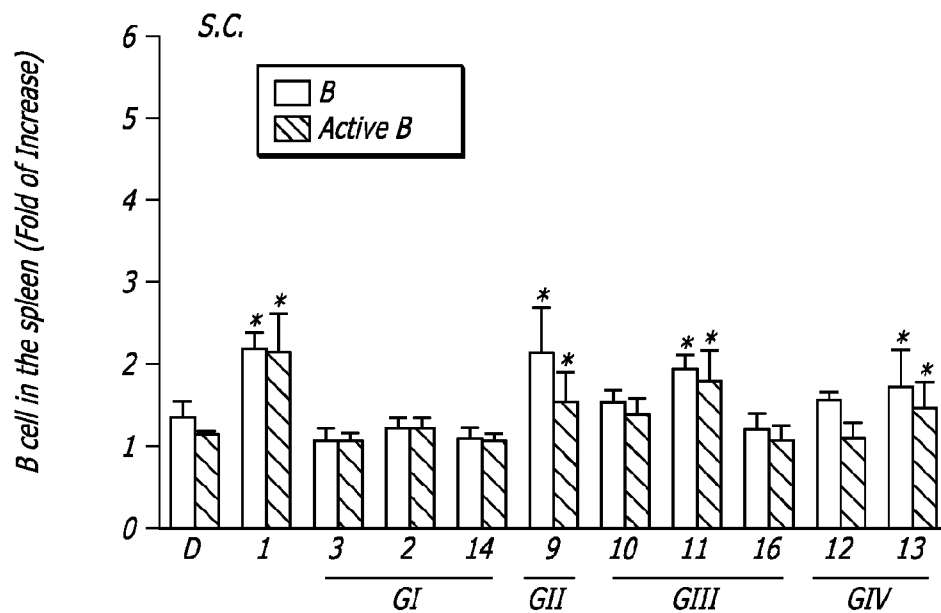


FIG. 28E



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FIG. 28F

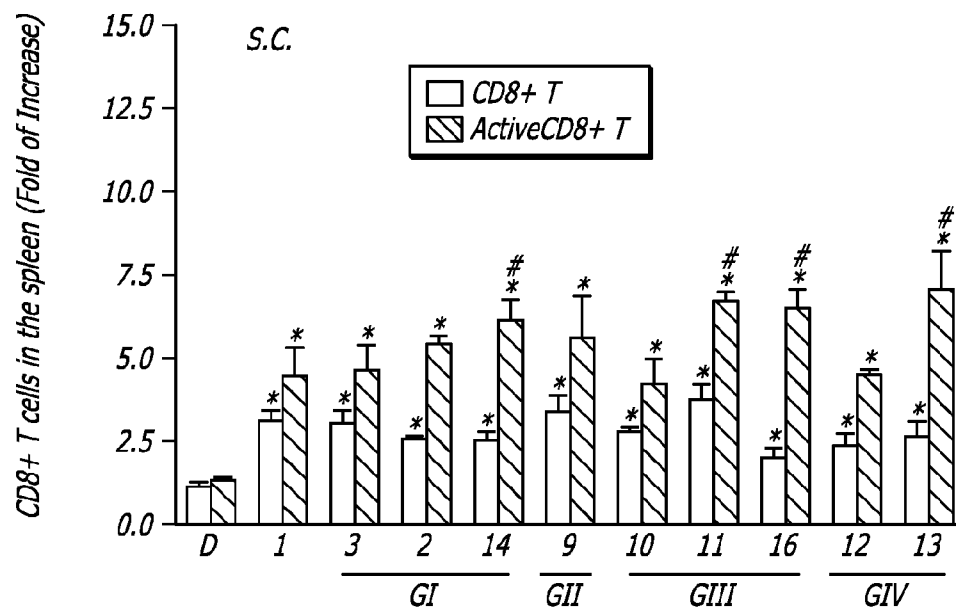
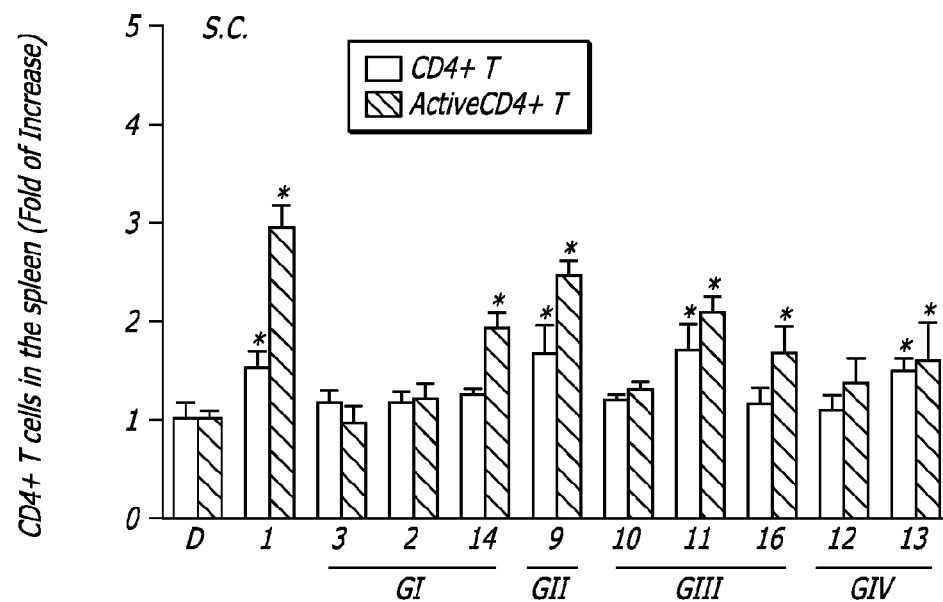
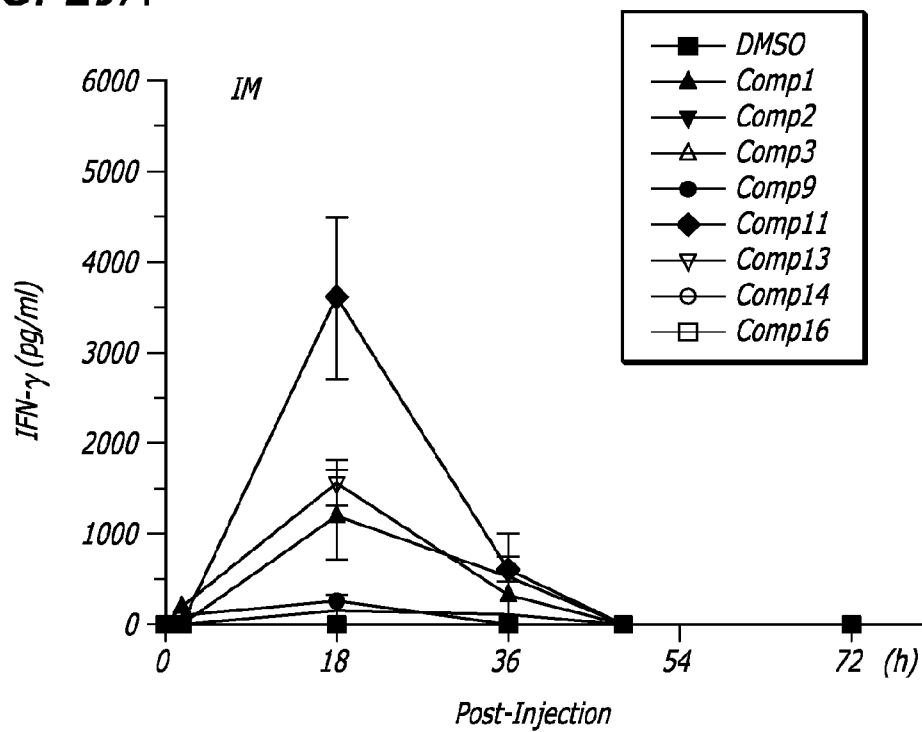
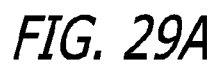
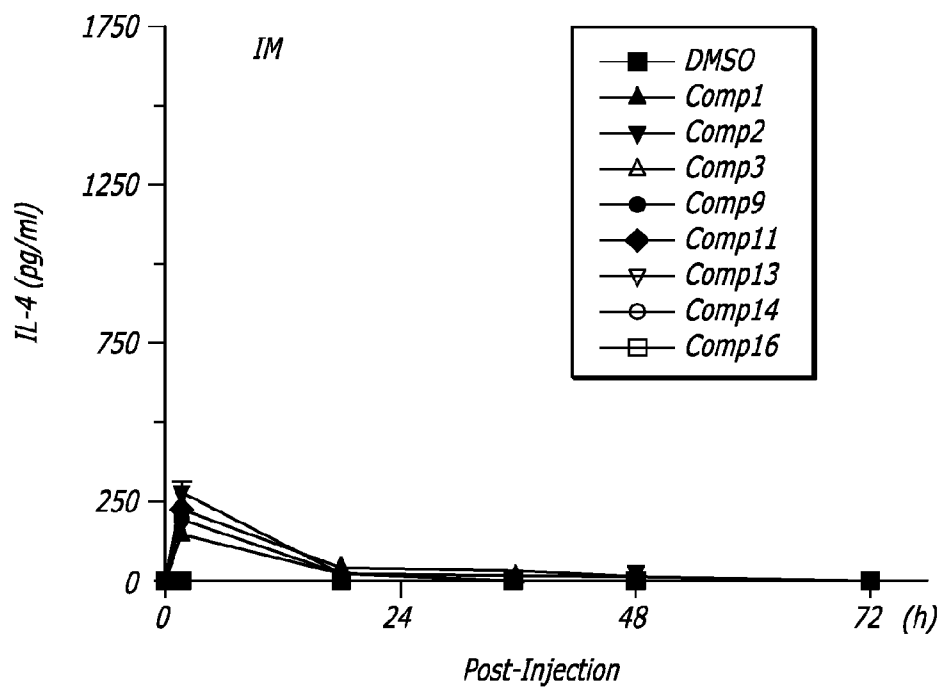
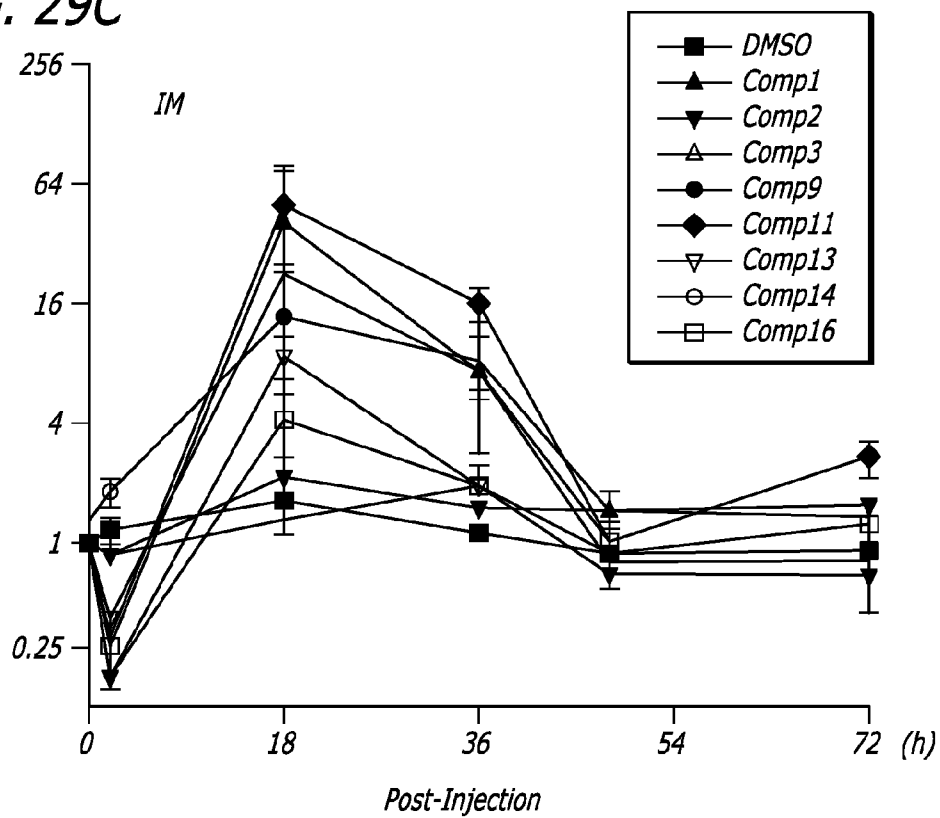


FIG. 28G





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FIG. 29B**FIG. 29C**

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FIG. 30A

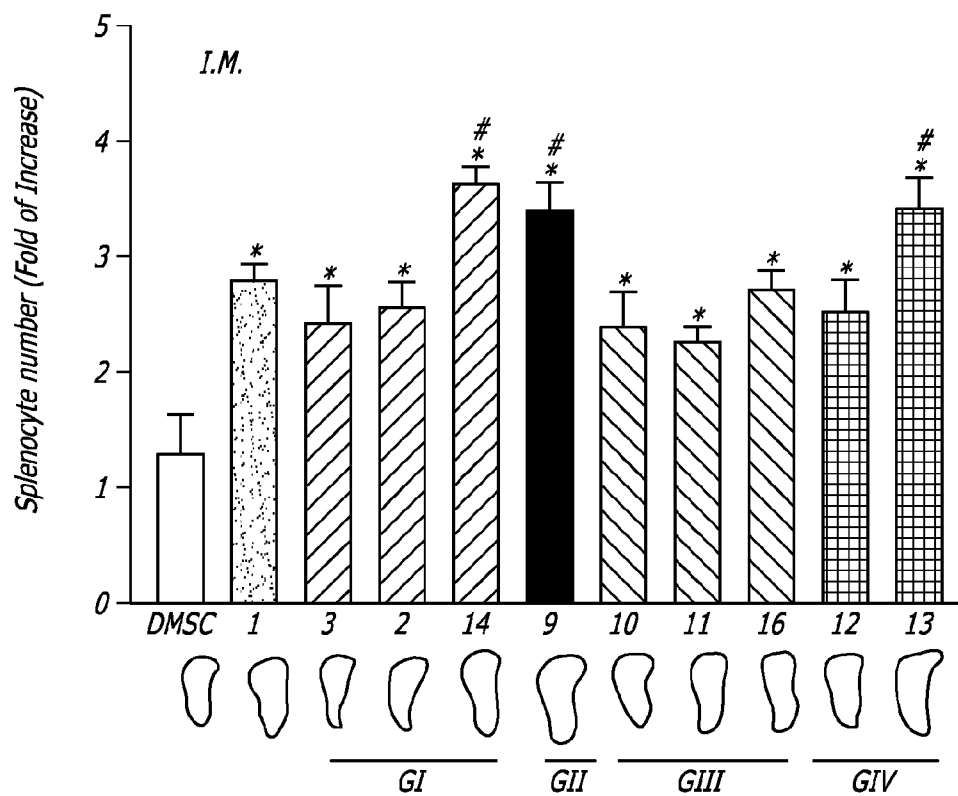
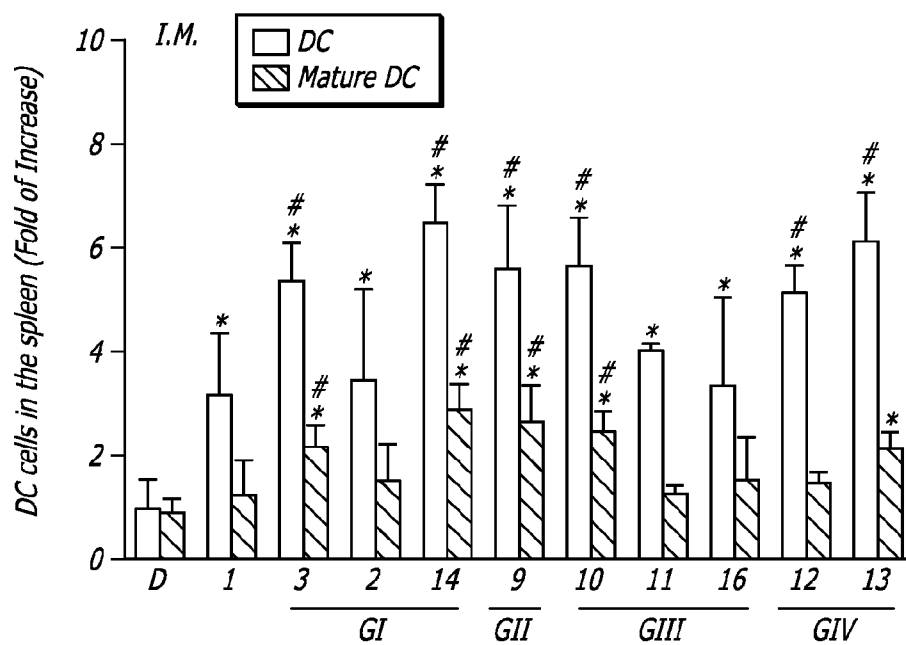


FIG. 30B



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FIG. 30C

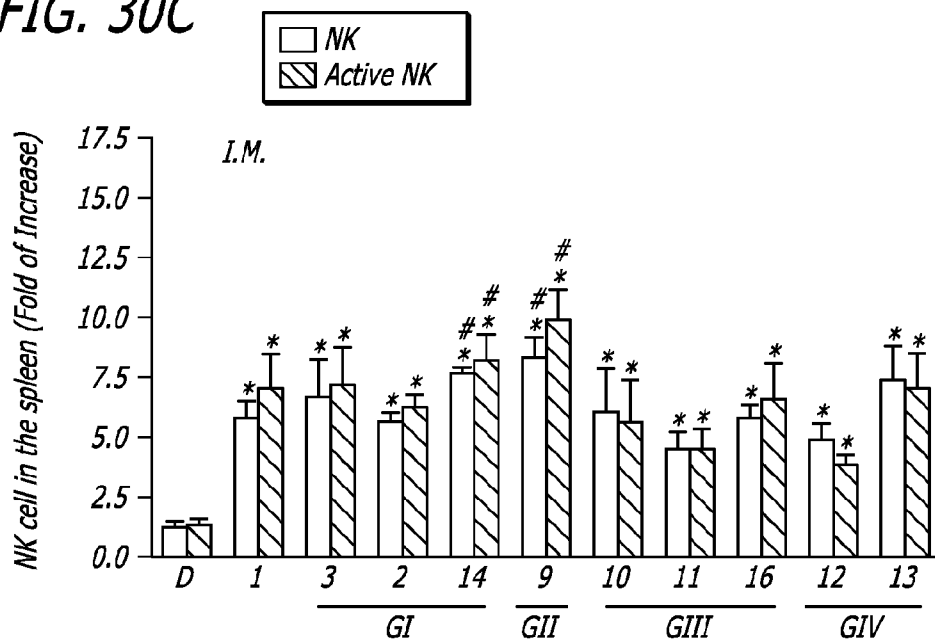
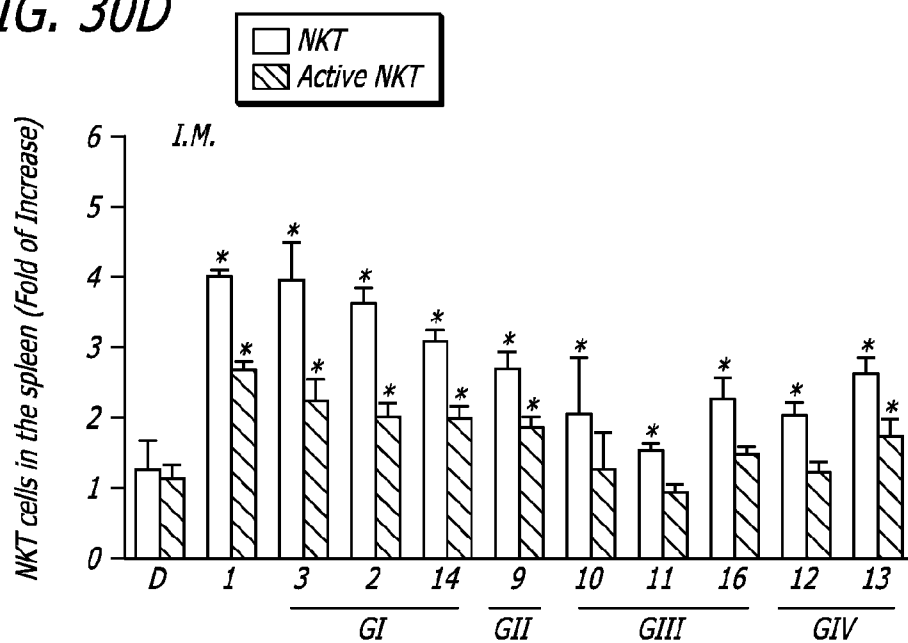


FIG. 30D



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FIG. 30E

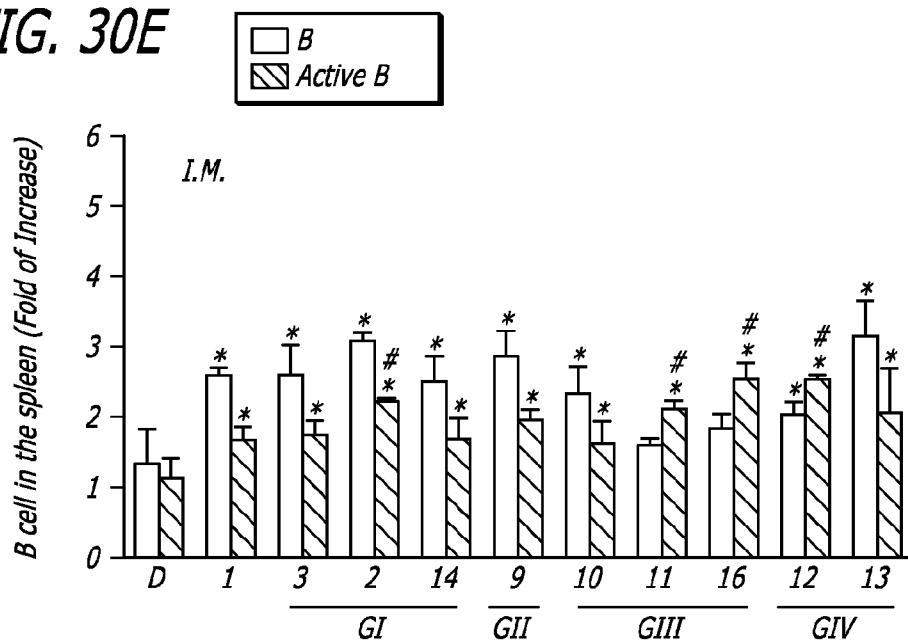
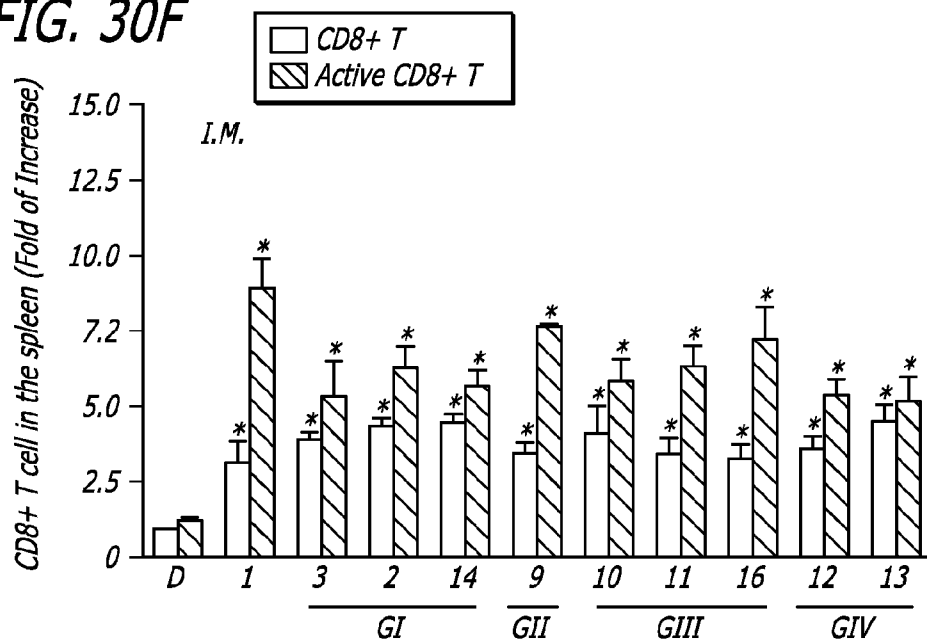


FIG. 30F



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FIG. 30G

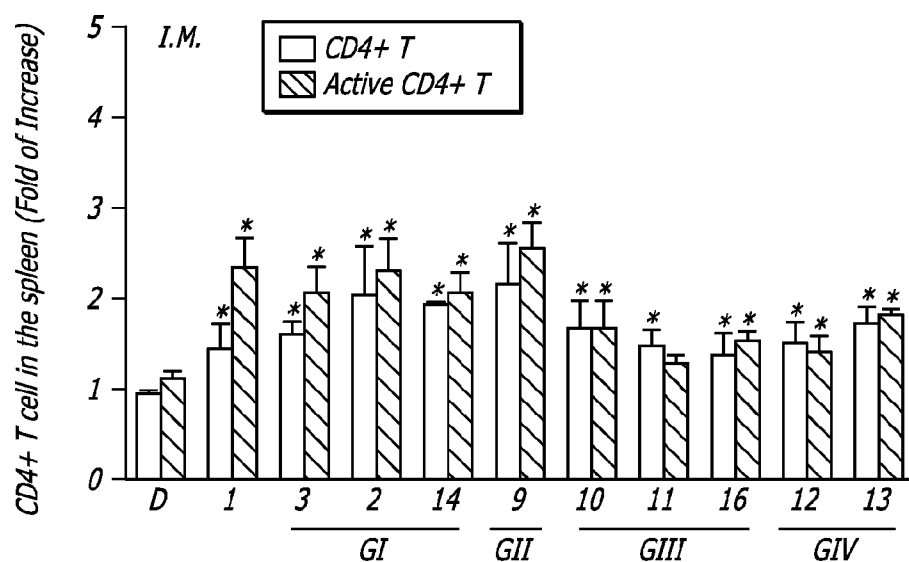
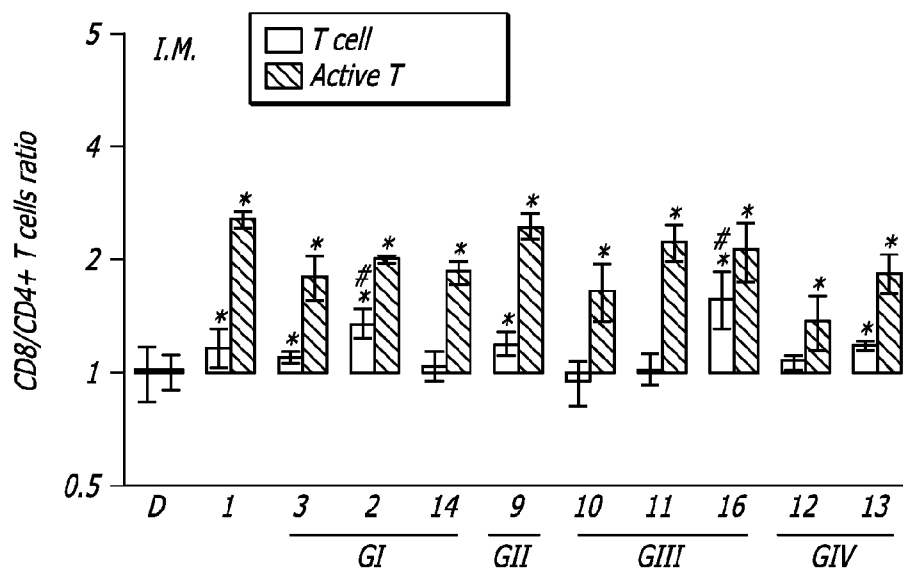


FIG. 30H



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FIG. 31A

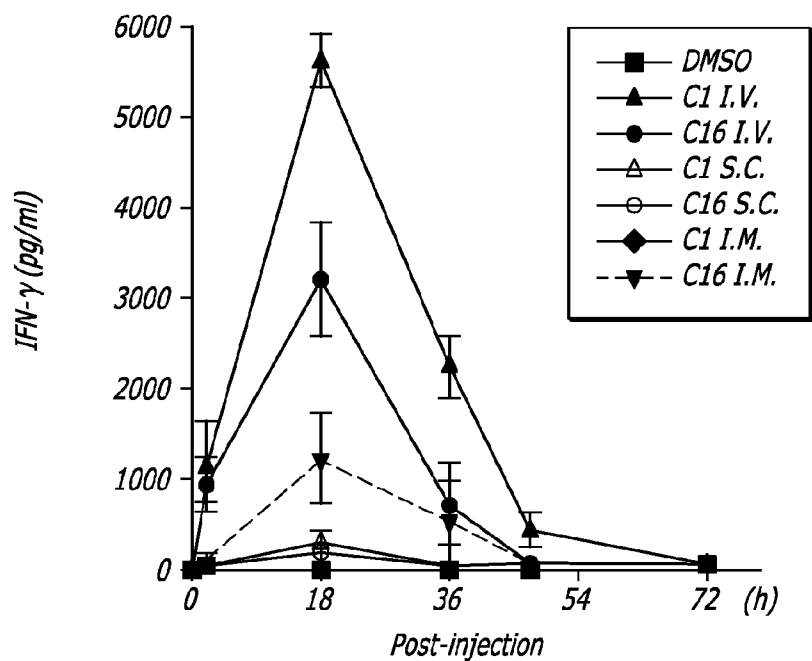
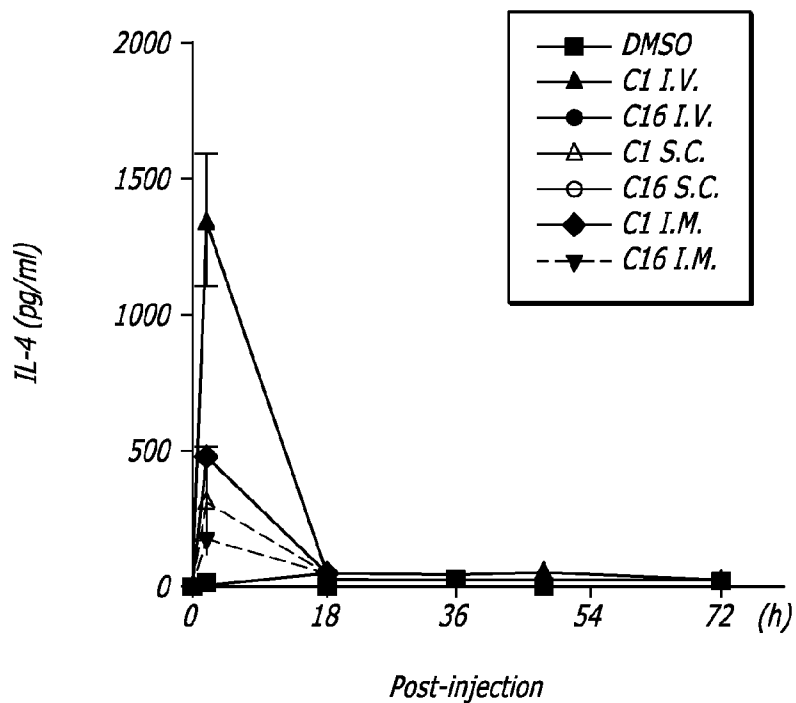


FIG. 31B



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FIG. 31C

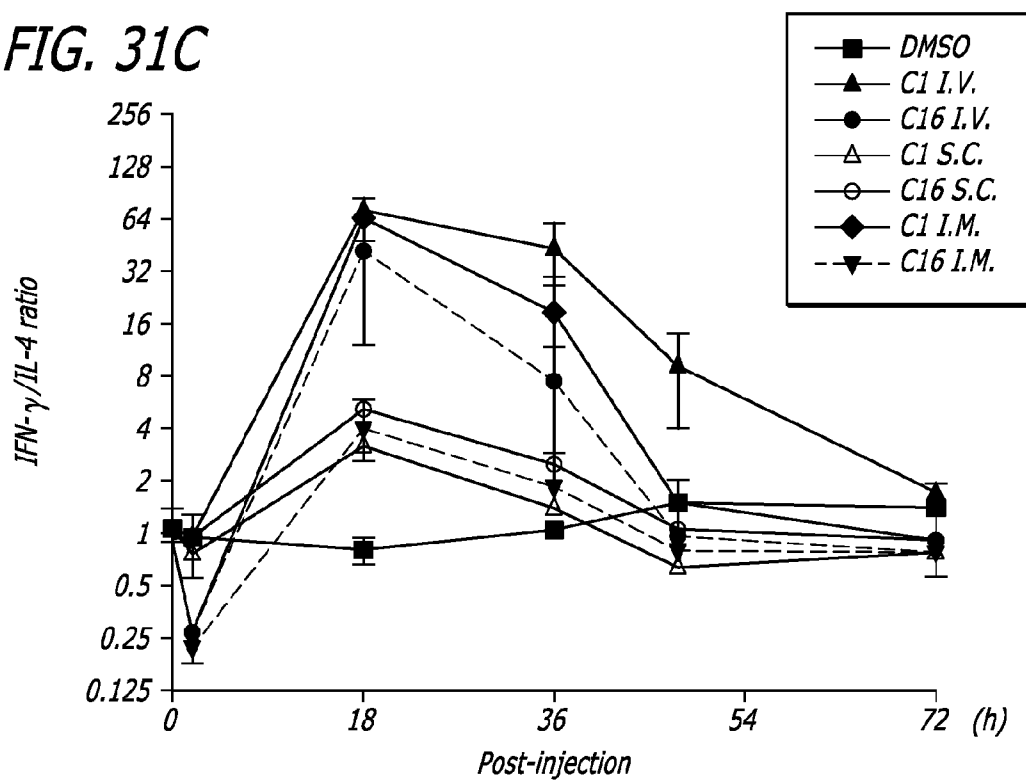
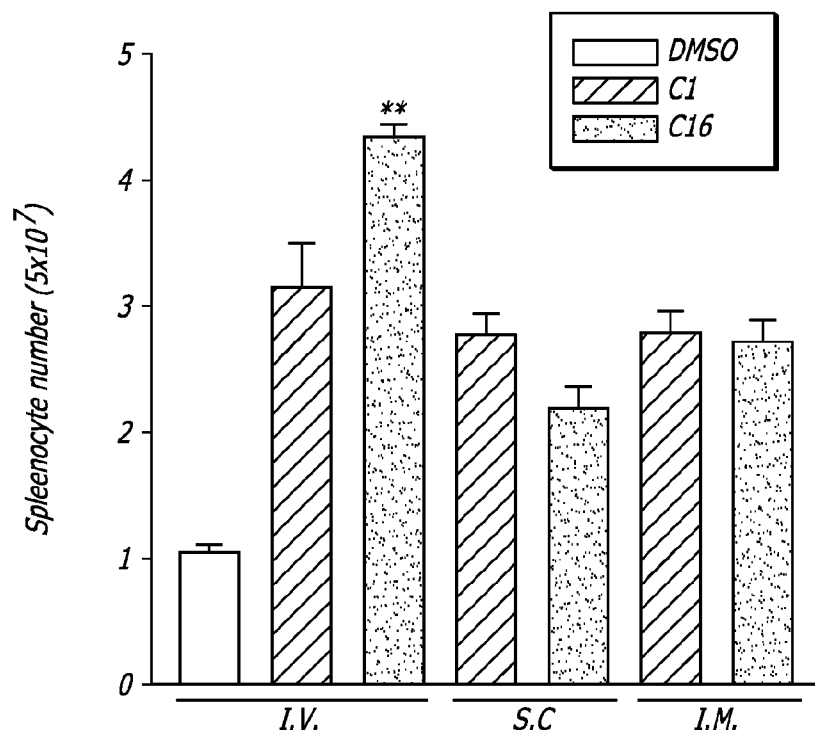


FIG. 31D



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FIG. 31E

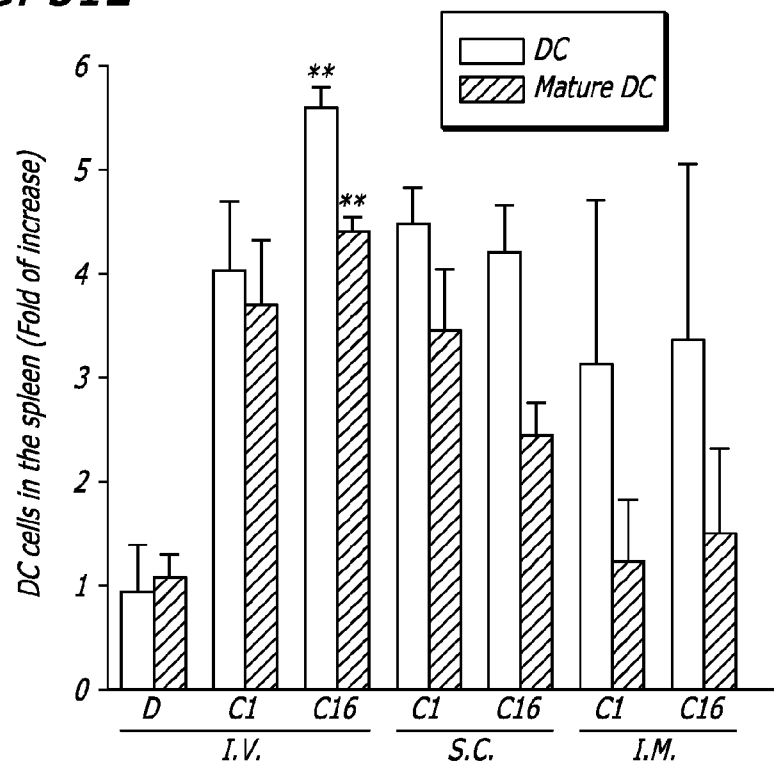
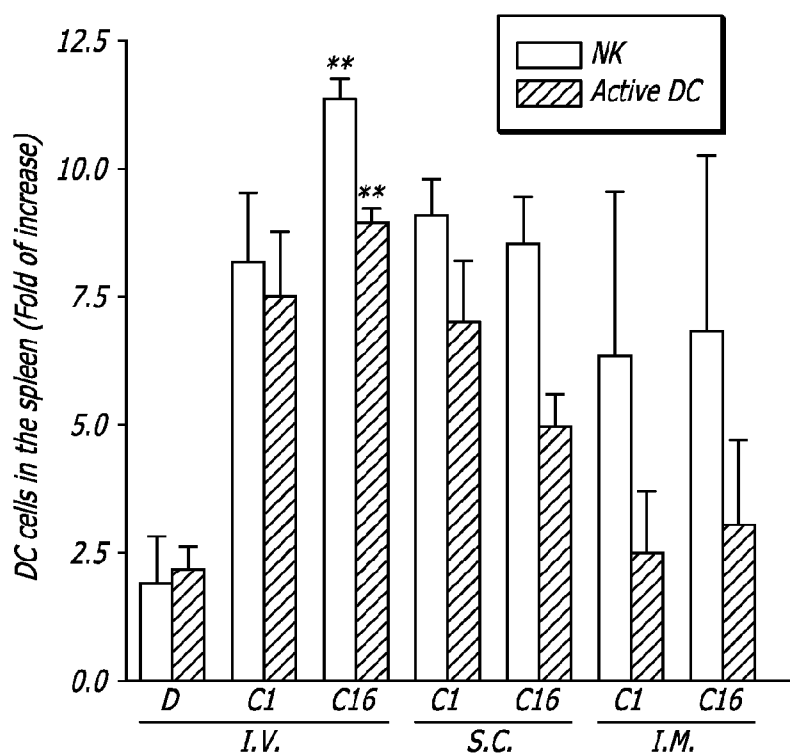
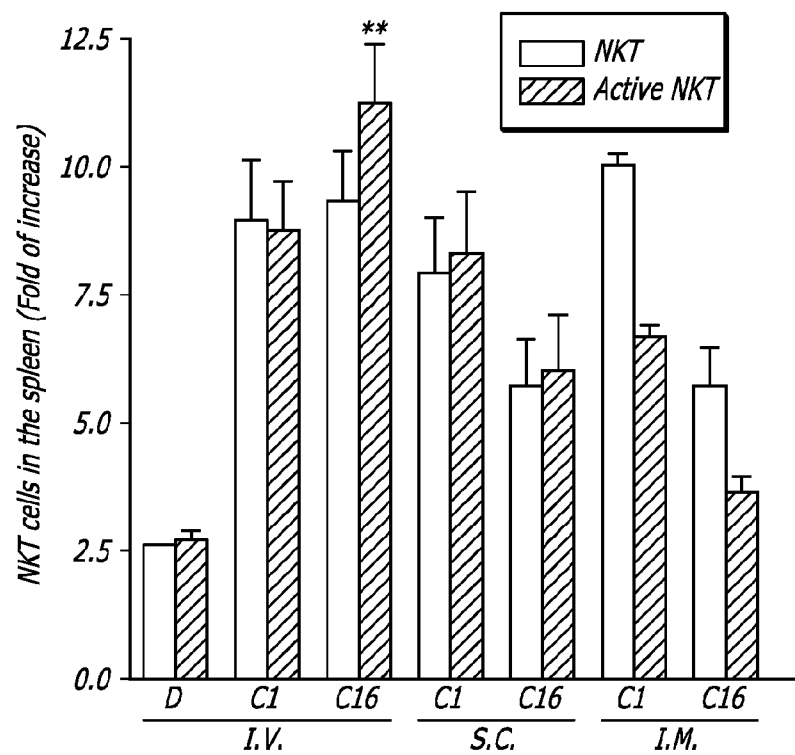
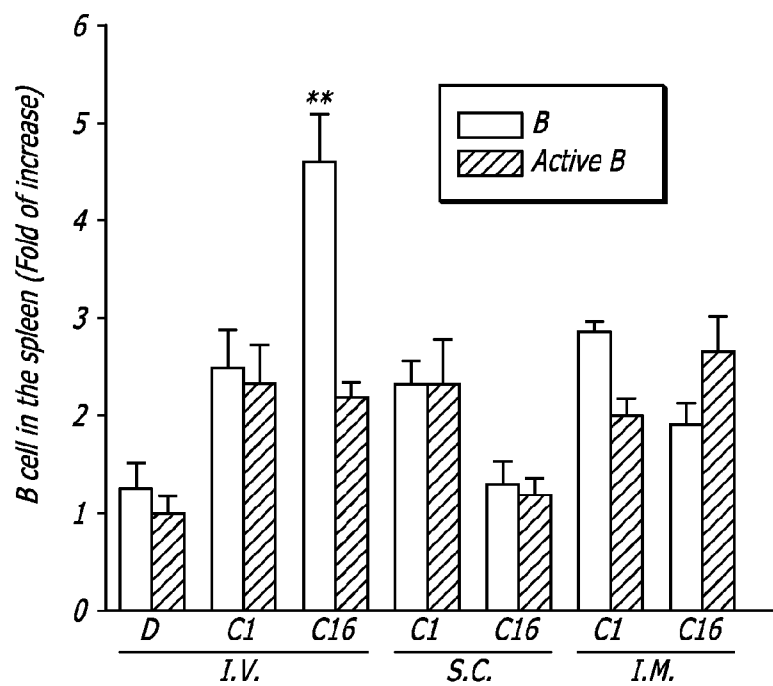


FIG. 31F



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FIG. 31G**FIG. 31H**

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FIG. 31I

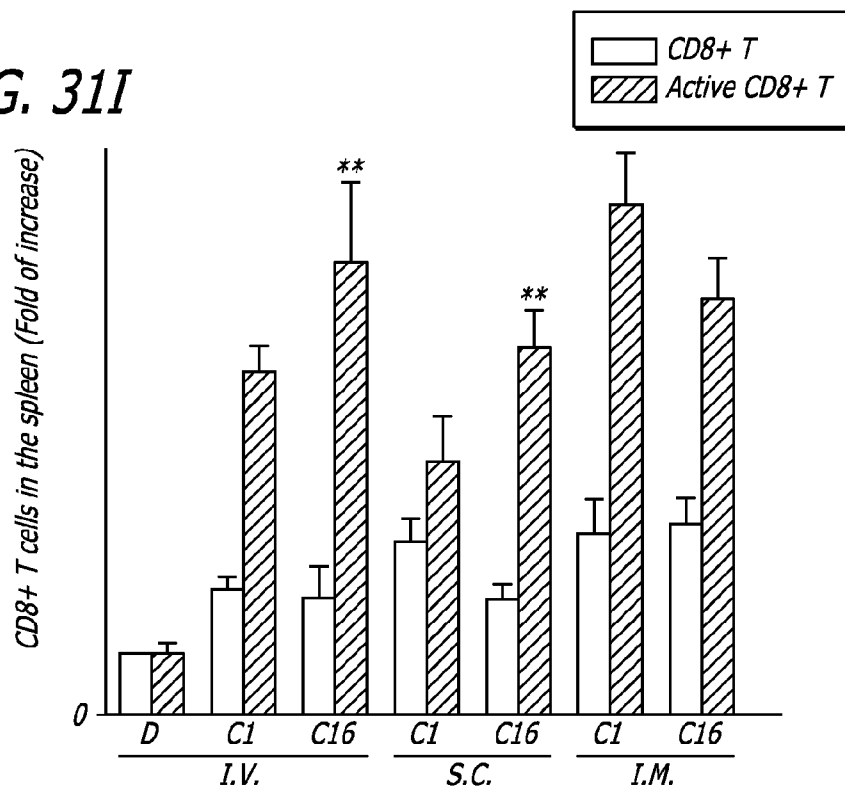
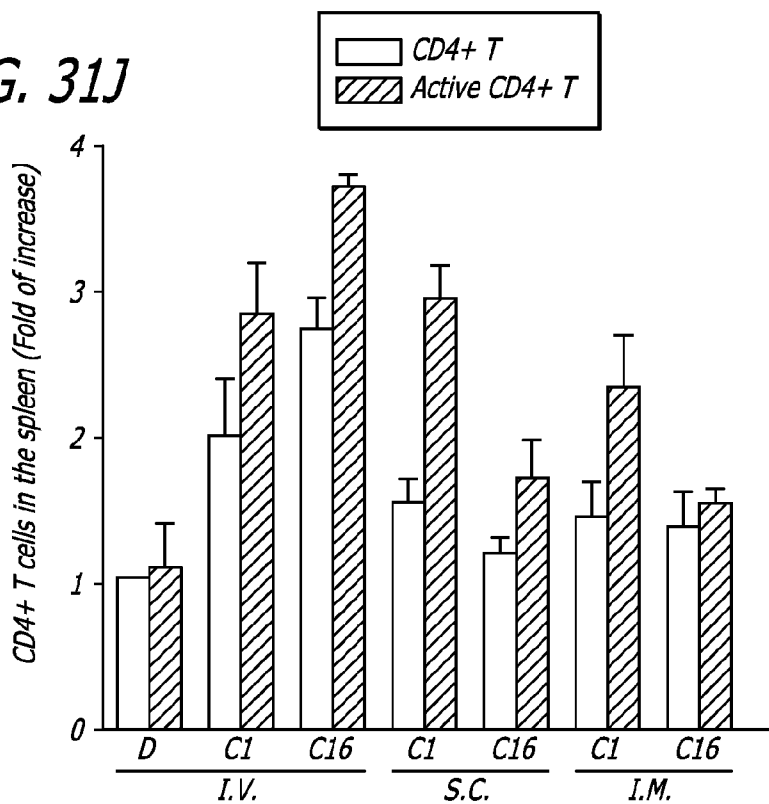


FIG. 31J



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FIG. 31K

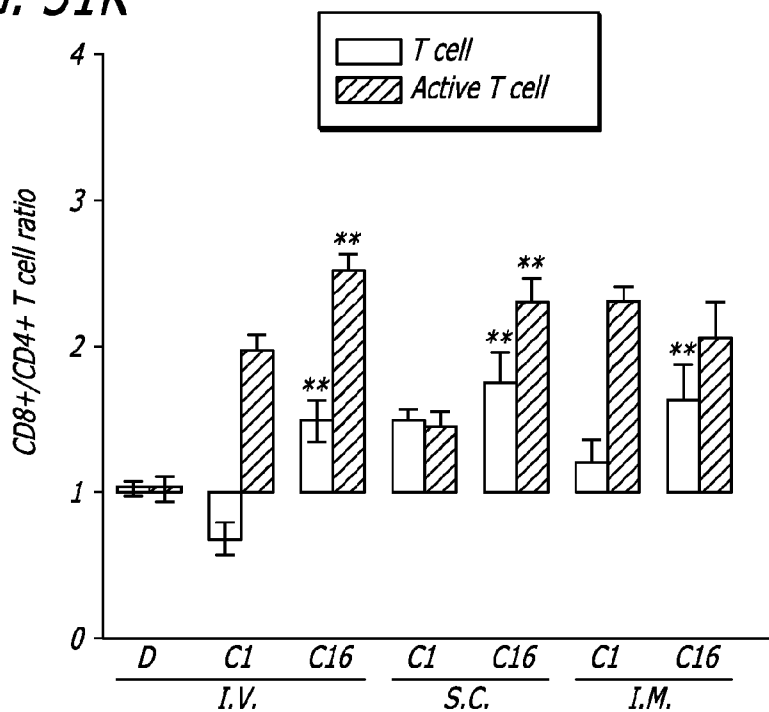


FIG. 32A

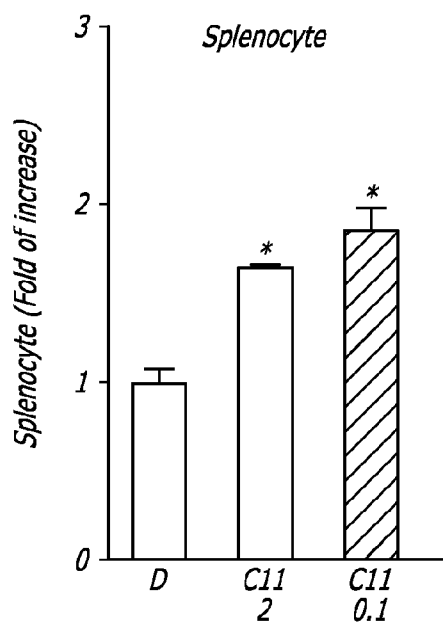


FIG. 32B

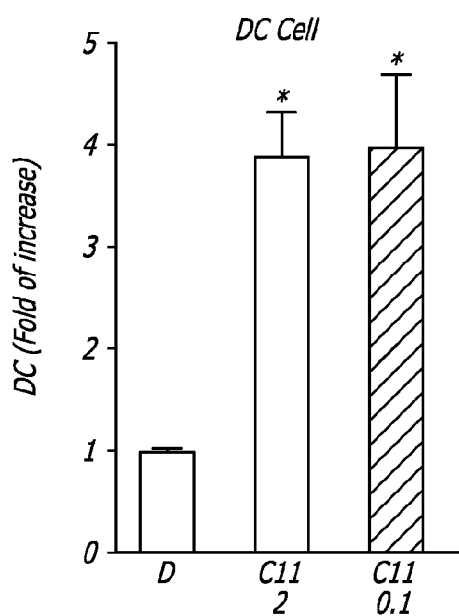


FIG. 32C

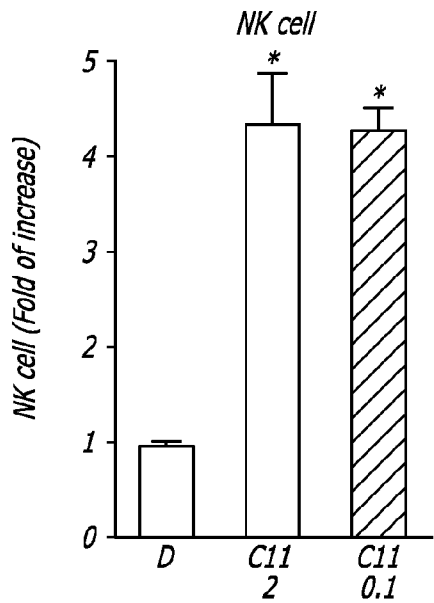


FIG. 32D

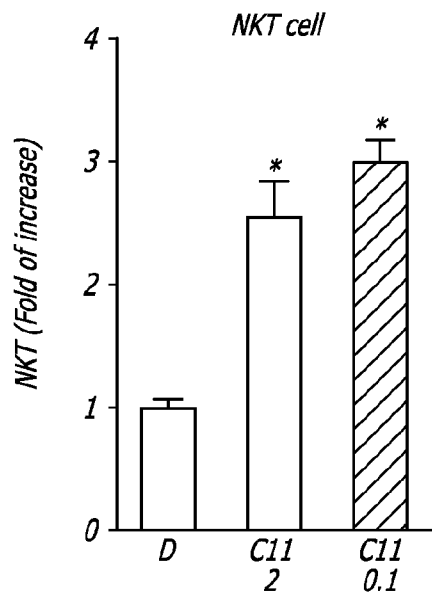


FIG. 32E

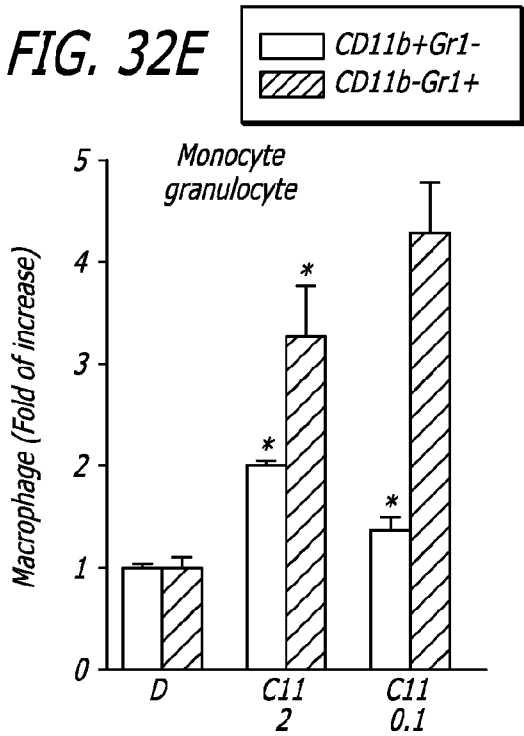
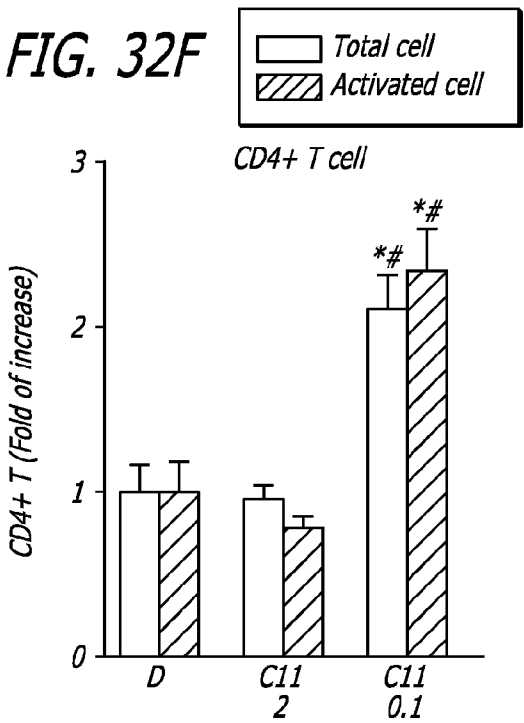
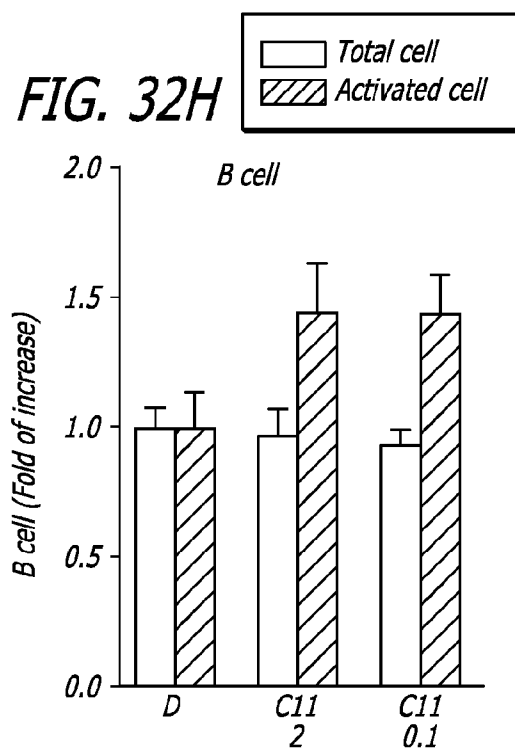
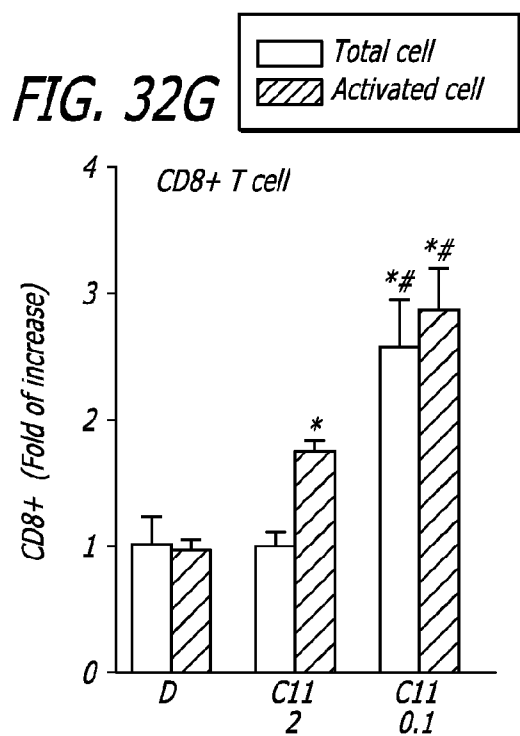


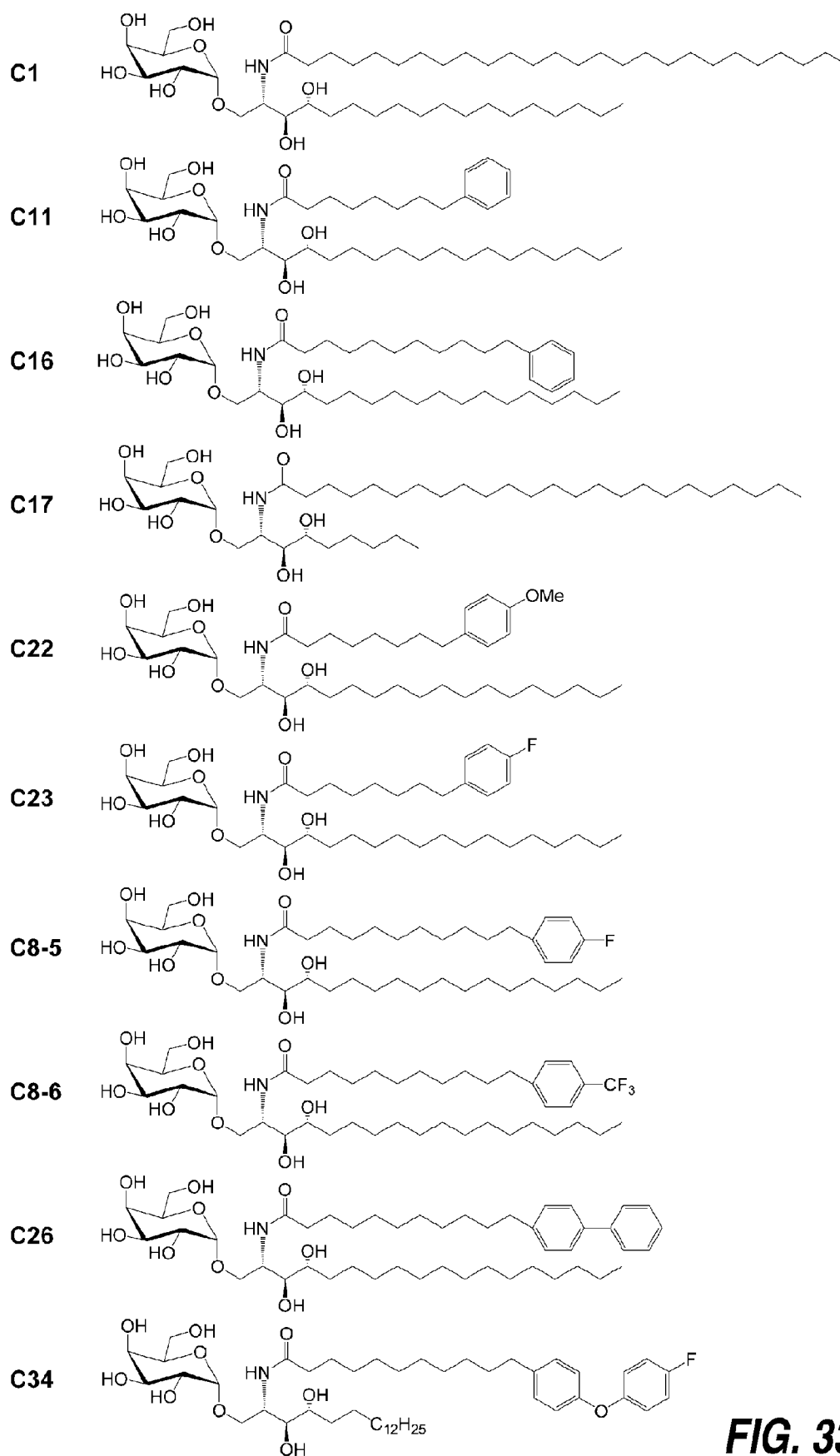
FIG. 32F



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**FIG. 33A**

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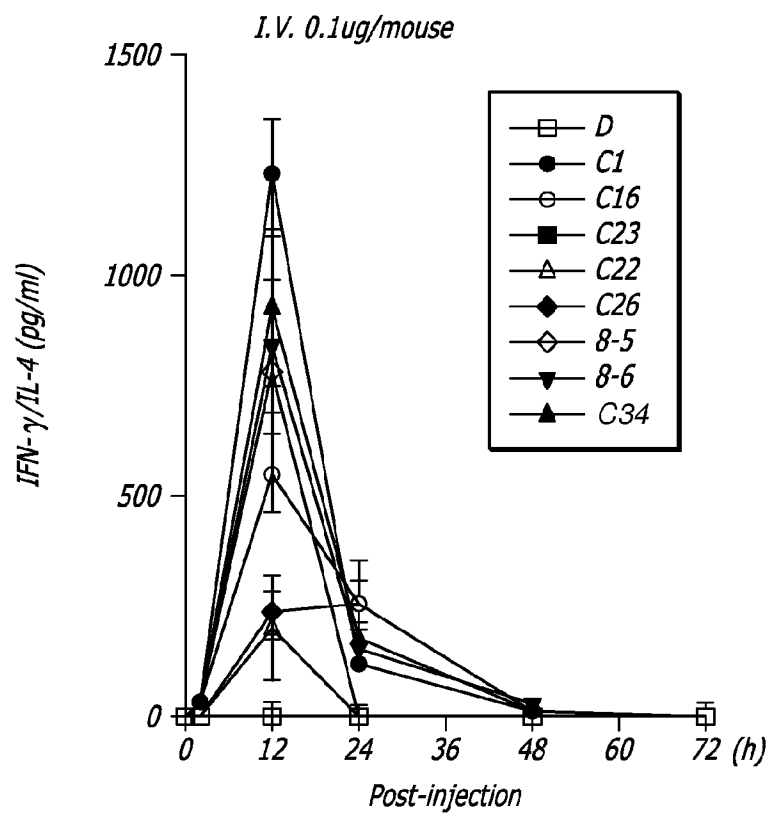
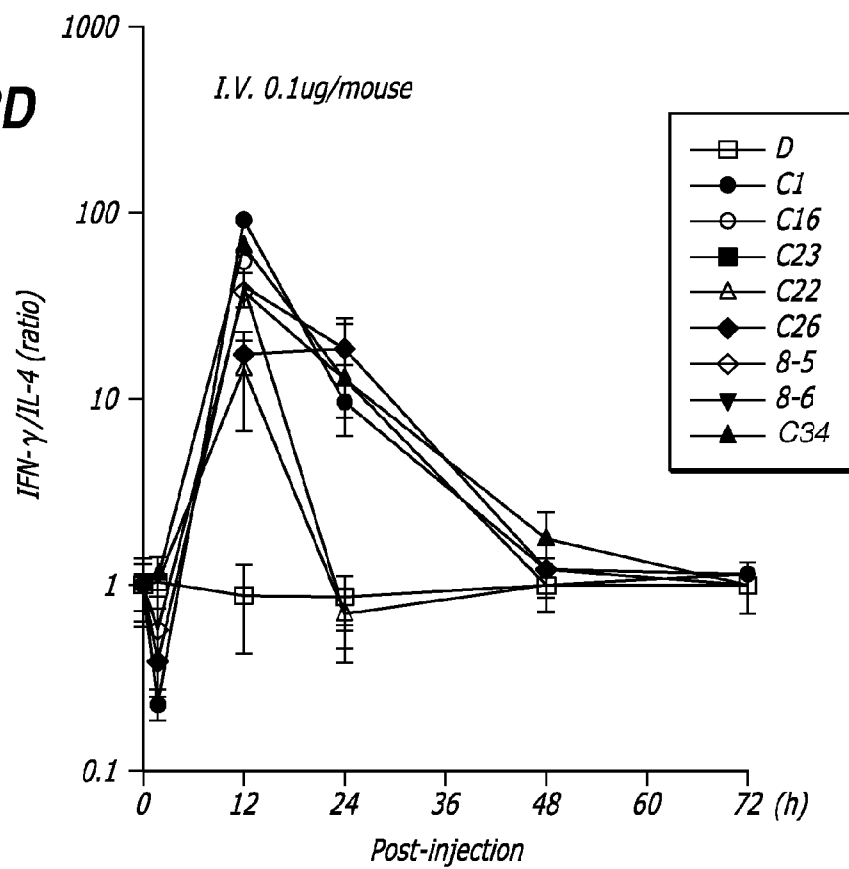
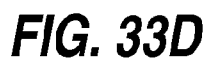
**FIG. 33B**

FIG. 33C



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24 cytokine/chemokine

Mouse serum	D 2h	C1 2h	C23 2h	C26 2h	C8-5 2h	C30 2h	C17 2h	D18 2h	C1 18h	C23 18h	C26 18h	C8-5 18h	C30 18h	C17 18h
TH1 bios	pg/mL	pg/mL	pg/mL	pg/mL	pg/mL	pg/mL	pg/mL	pg/mL	pg/mL	pg/mL	pg/mL	pg/mL	pg/mL	pg/mL
IFN-gamma	23	106	63	66	19	99	77	20	1270	706	341	713	890	110
IL-1 alpha	78	171	62	119	65	153	75	53	50	92	94	145	110	67
IL-1 beta	59	110	224	62	69	152	111	75	49	298	86	60	103	73
IL-2	25	323	26	28	75	413	82	27	19	45	32	37	31	51
IL-12 p40	109	120	133	164	62	93	374	81	72	617	284	131	119	181
IL-12 p70	172	279	1062	553	156	417	912	110	1690	2105	783	1065	2393	260
KC	216	2027	303	223	1567	2450	455	225	494	275	256	318	352	231
MCP-1	477	1270	573	583	1510	2780	631	467	837	1263	837	580	588	392
MIP-1 beta	78	322	85	77	385	345	155	52	107	124	113	238	174	115
RANTES	191	279	322	298	233	336	370	206	178	769	327	266	223	108
TH2 bios														
IL-4	19	455	185	213	214	263	322	8	21	29	24	19	18	19
IL-6	20	49	90	24	26	39	53	47	24	220	57	50	41	23
IL-10	69	296	452	84	66	243	331	138	237	858	141	185	227	145
IL-13	47	101	56	39	38	174	112	51	79	136	39	92	114	91
TH17														
IL-17	247	253	579	582	341	314	639	277	128	1245	632	321	230	129
other														
TNF-alpha	20	195	22	19	59	140	35	23	40	30	31	37	43	17
VEGF	56	59	60	67	45	66	74	65	133	123	115	109	135	55
GM-CSF	27	347	28	74	54	202	89	15	14	114	64	16	24	11
IL-3	38	42	68	107	23	25	82	23	27	339	138	85	58	16
IL-5	97	114	163	103	124	195	148	74	118	193	192	89	137	108
IL-9	74	178	37	61	67	102	196	70	64	215	81	106	61	168
IL-1RA	467	595	517	327	518	898	1102	325	617	722	547	611	935	578
IL-18	165	143	180	192	110	113	155	158	114	152	161	107	66	122
IL-21	38	546	29	NA	31	204	264	NA	NA	NA	26	200	928	NA

FIG. 34

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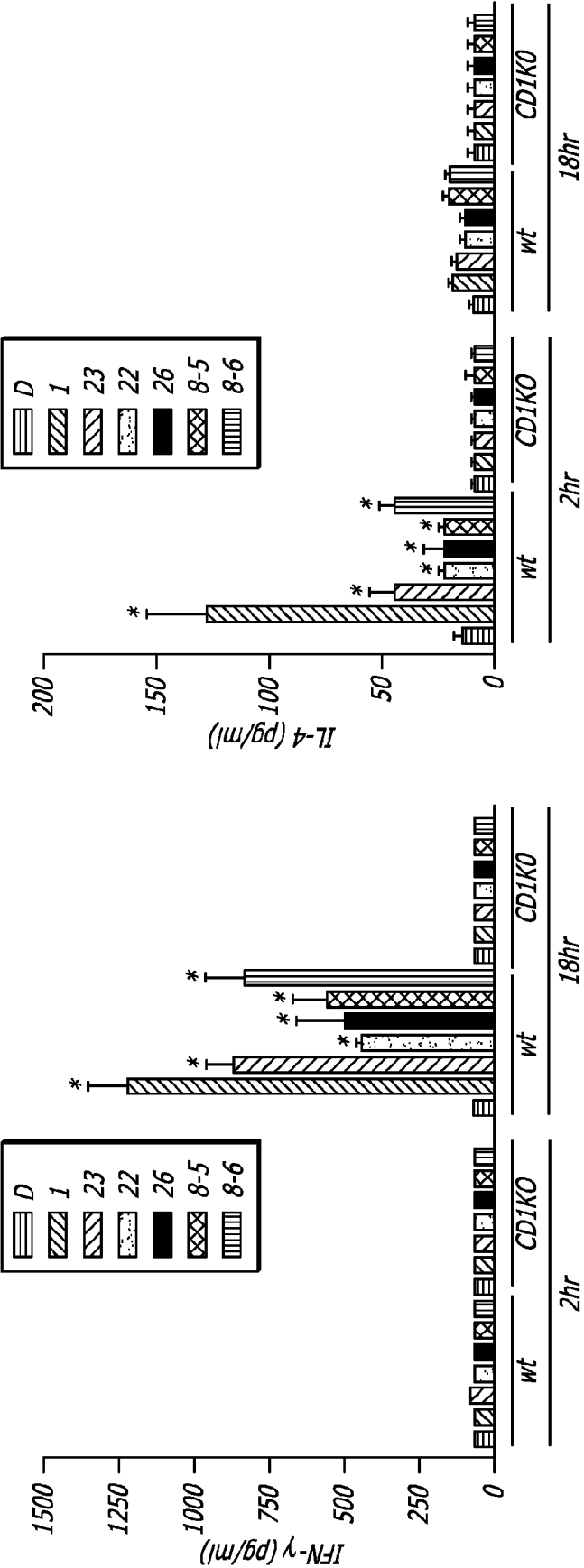


FIG. 35B

FIG. 35A

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FIG. 35C

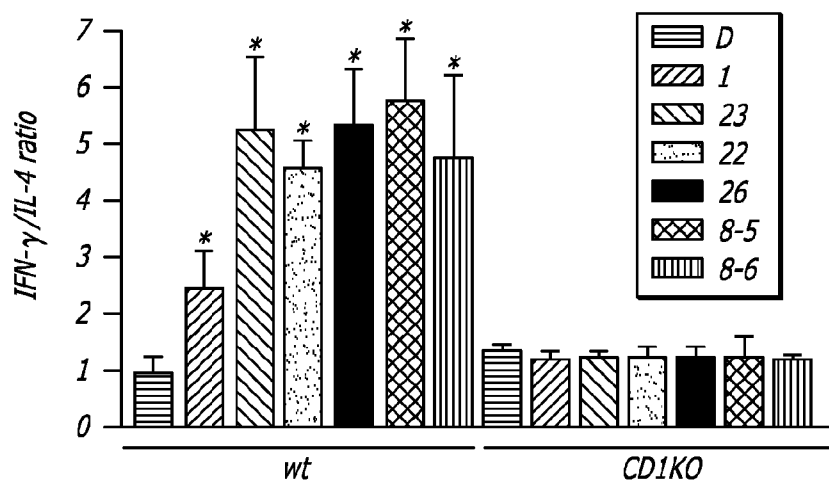


FIG. 35D

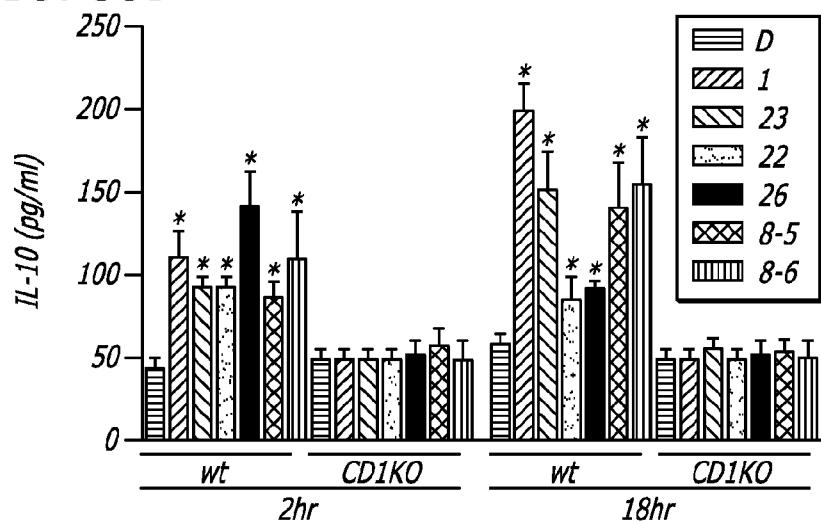


FIG. 35E

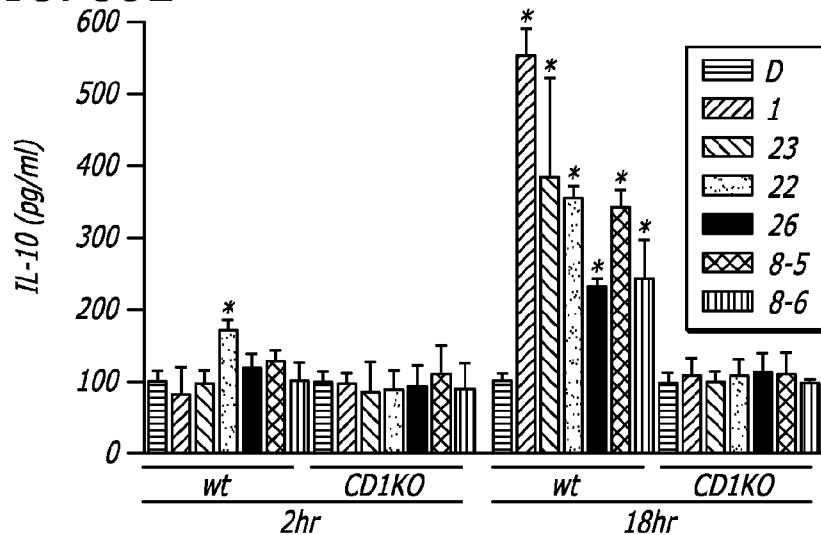


FIG. 35F

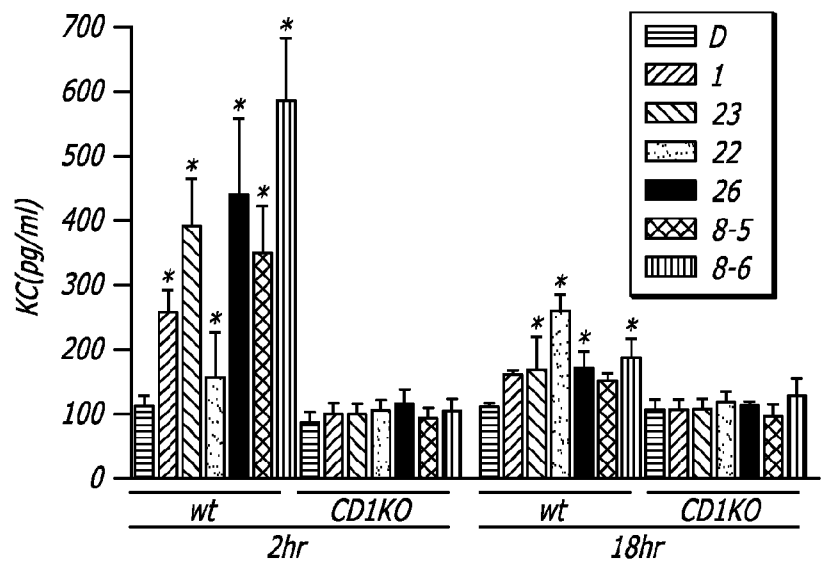
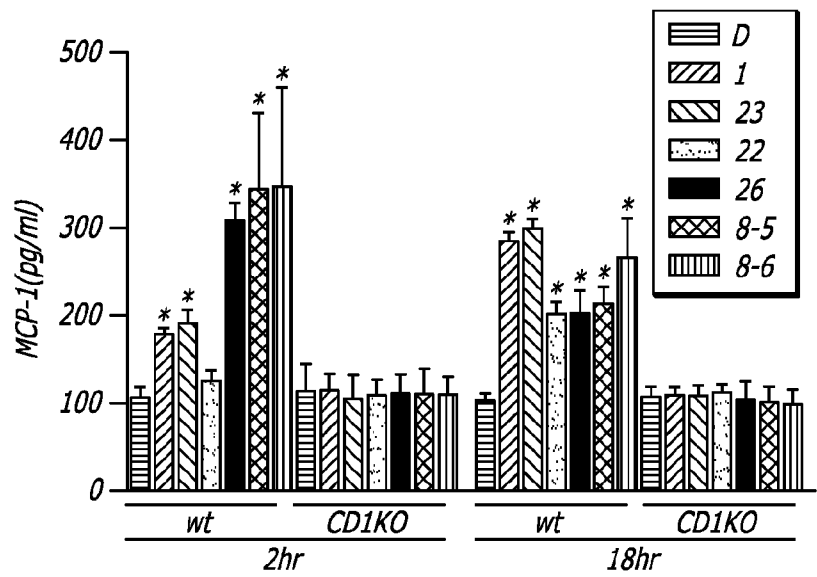


FIG. 35G



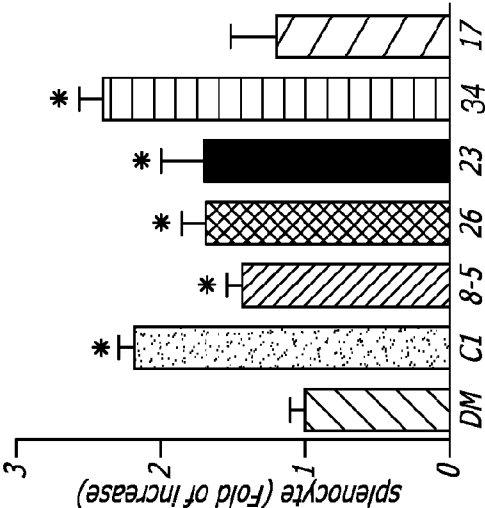


FIG. 36A

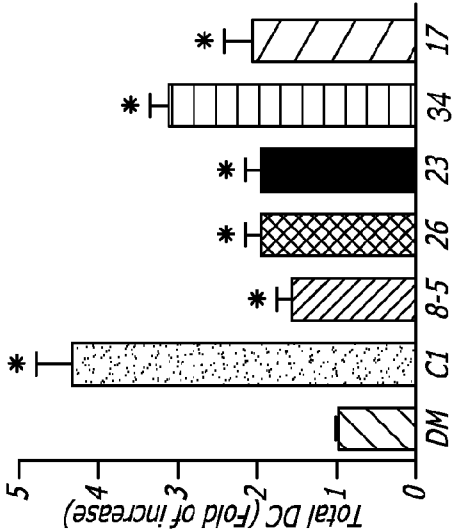


FIG. 36B

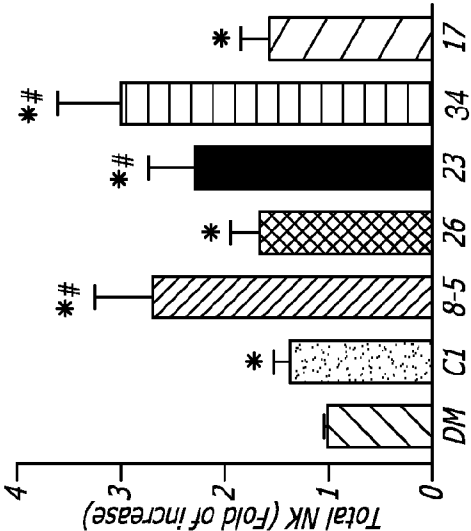


FIG. 36C

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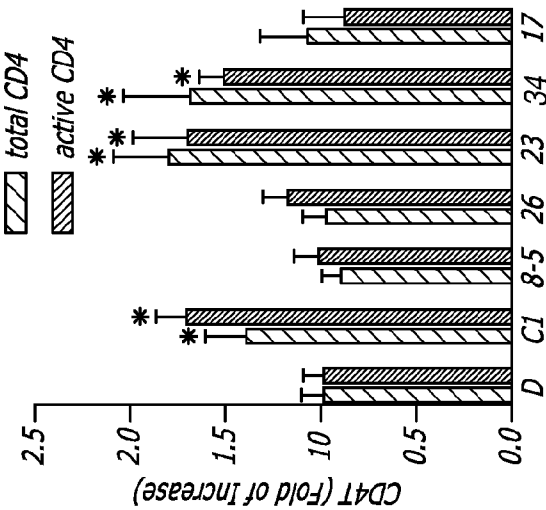


FIG. 36D

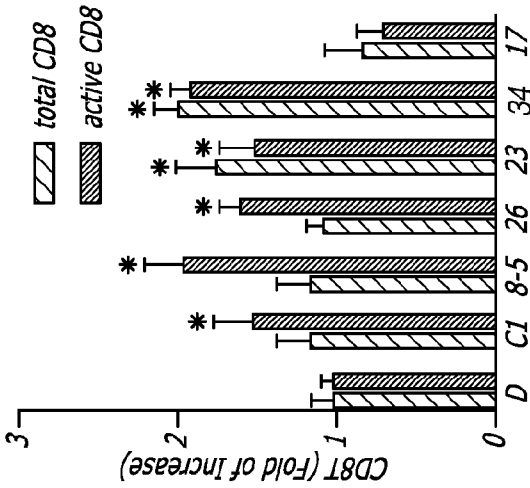


FIG. 36E

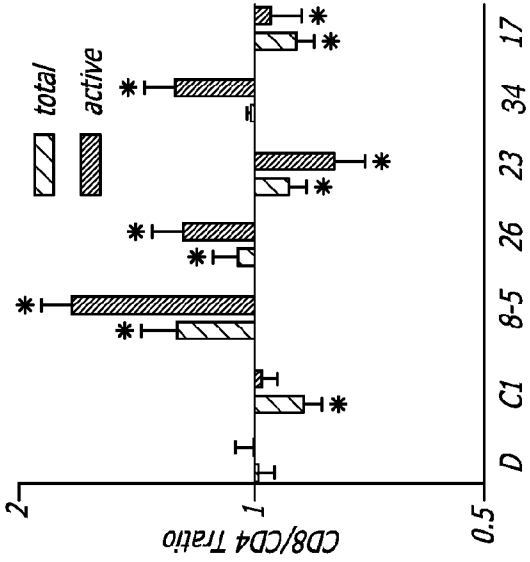
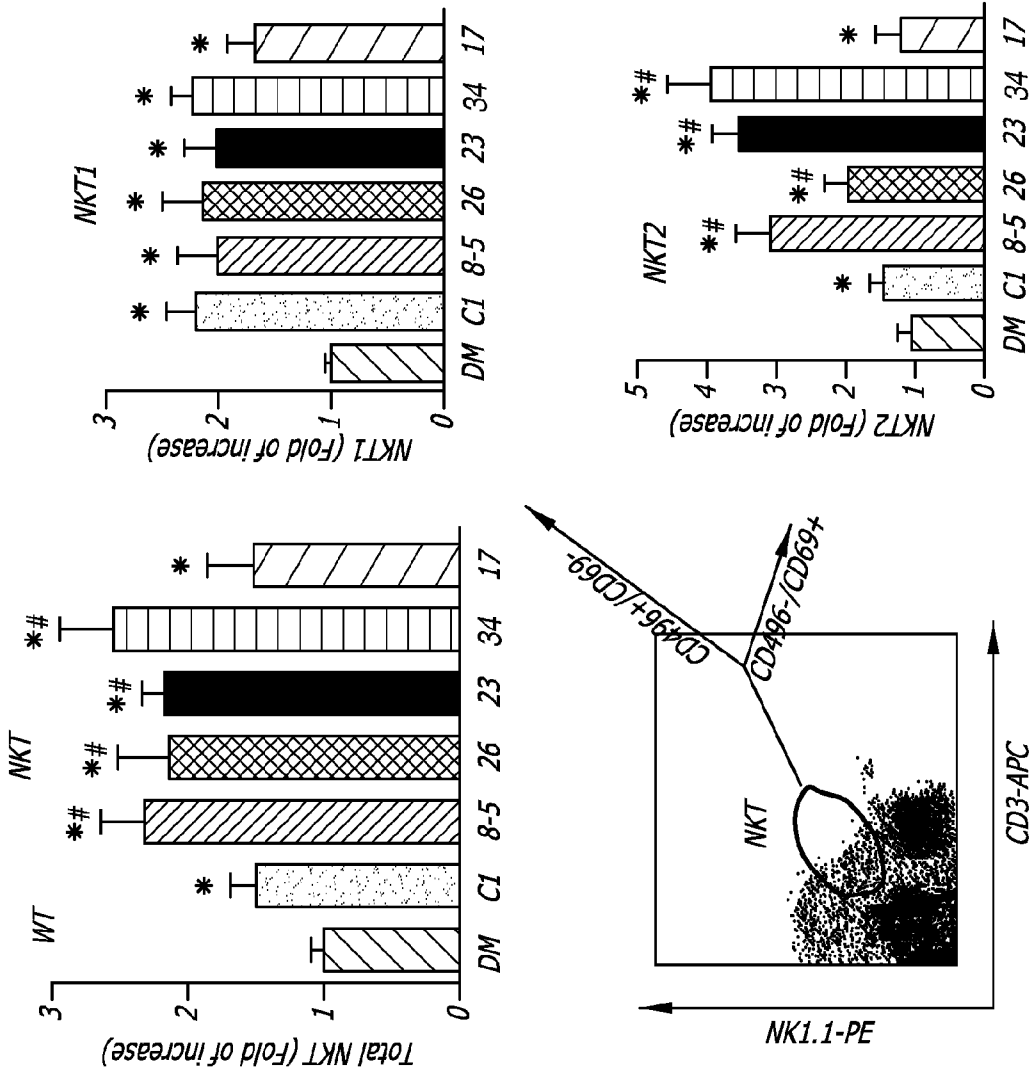


FIG. 36F

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FIG. 36G



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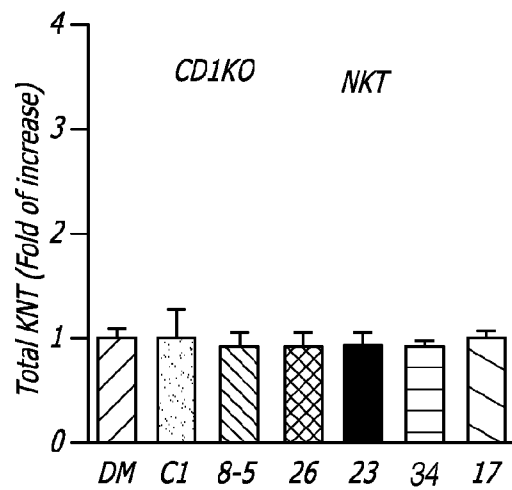


FIG. 36H

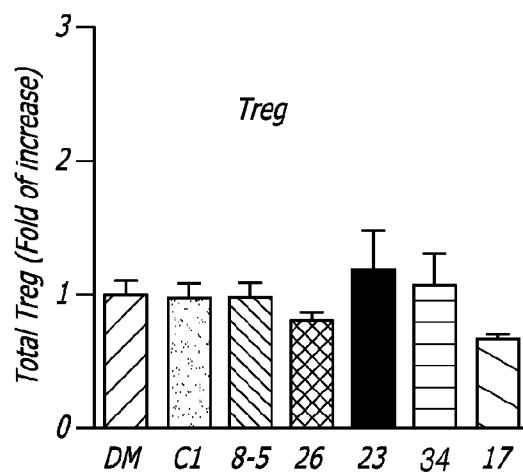


FIG. 36I

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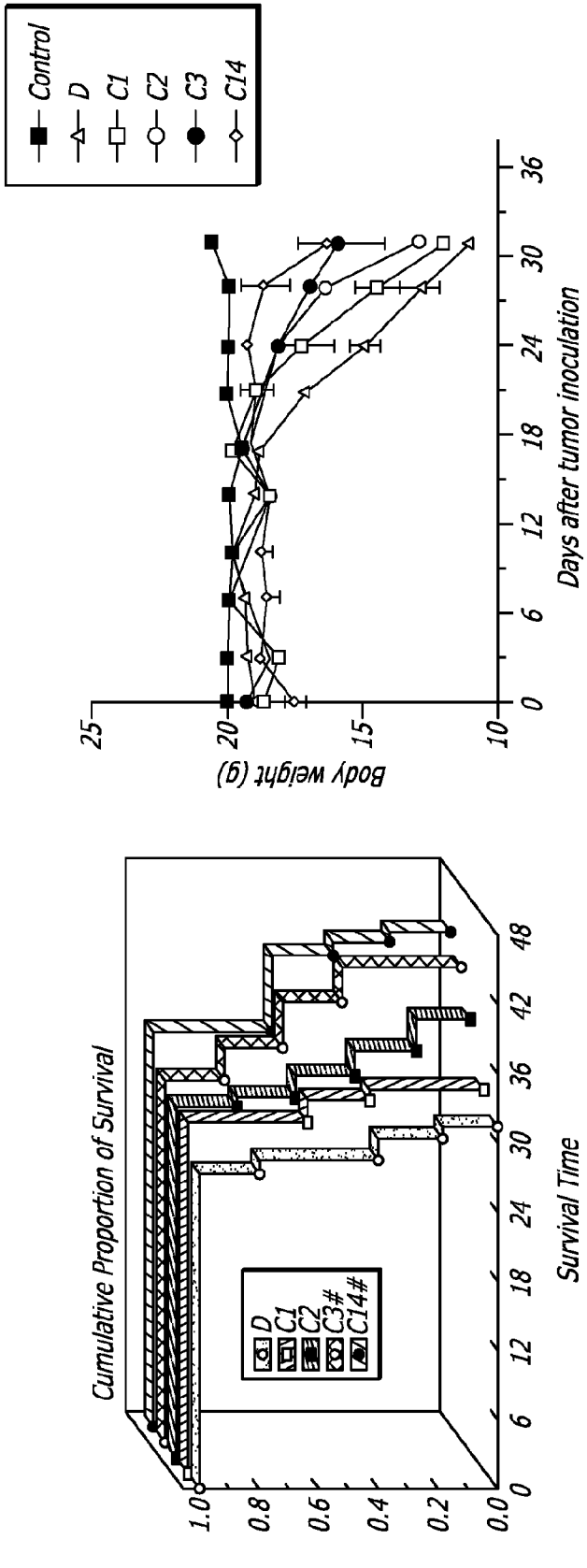


FIG. 37A

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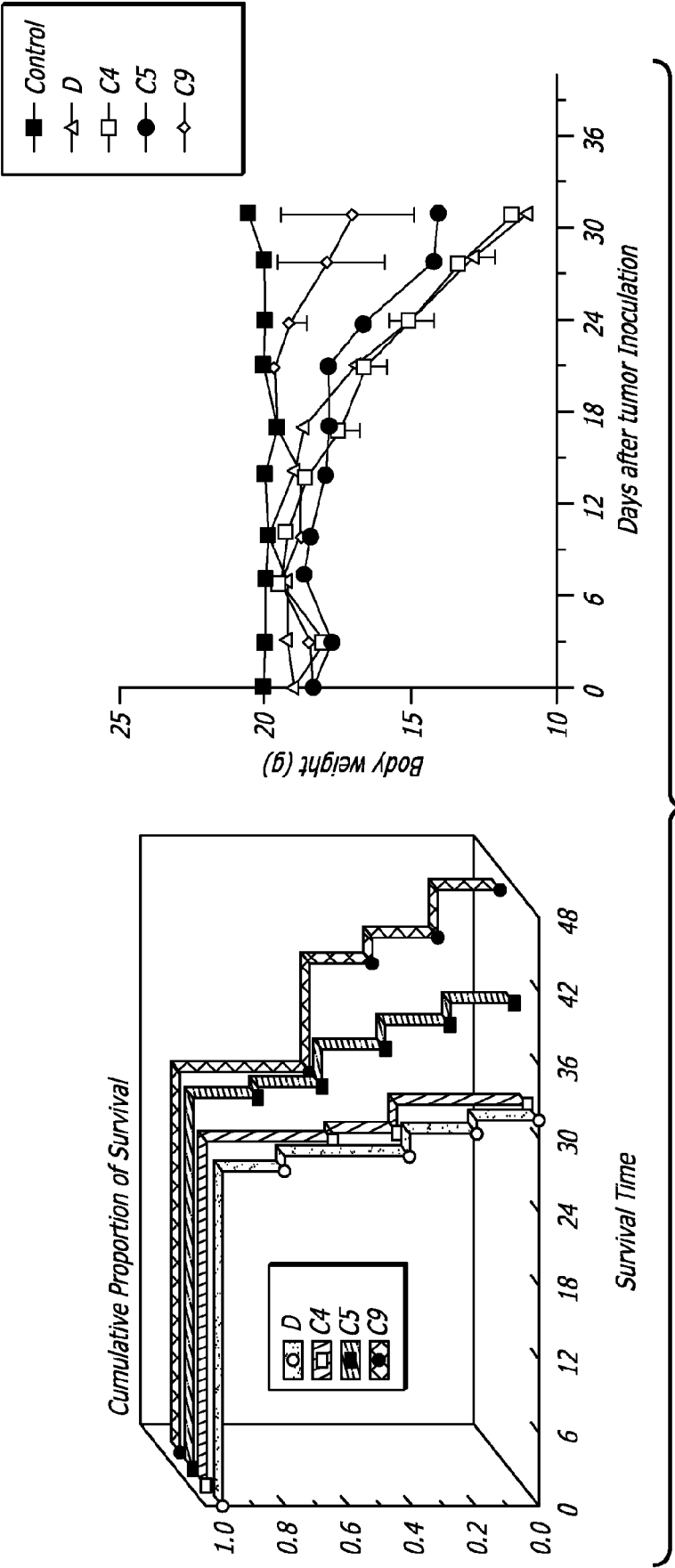


FIG. 37B

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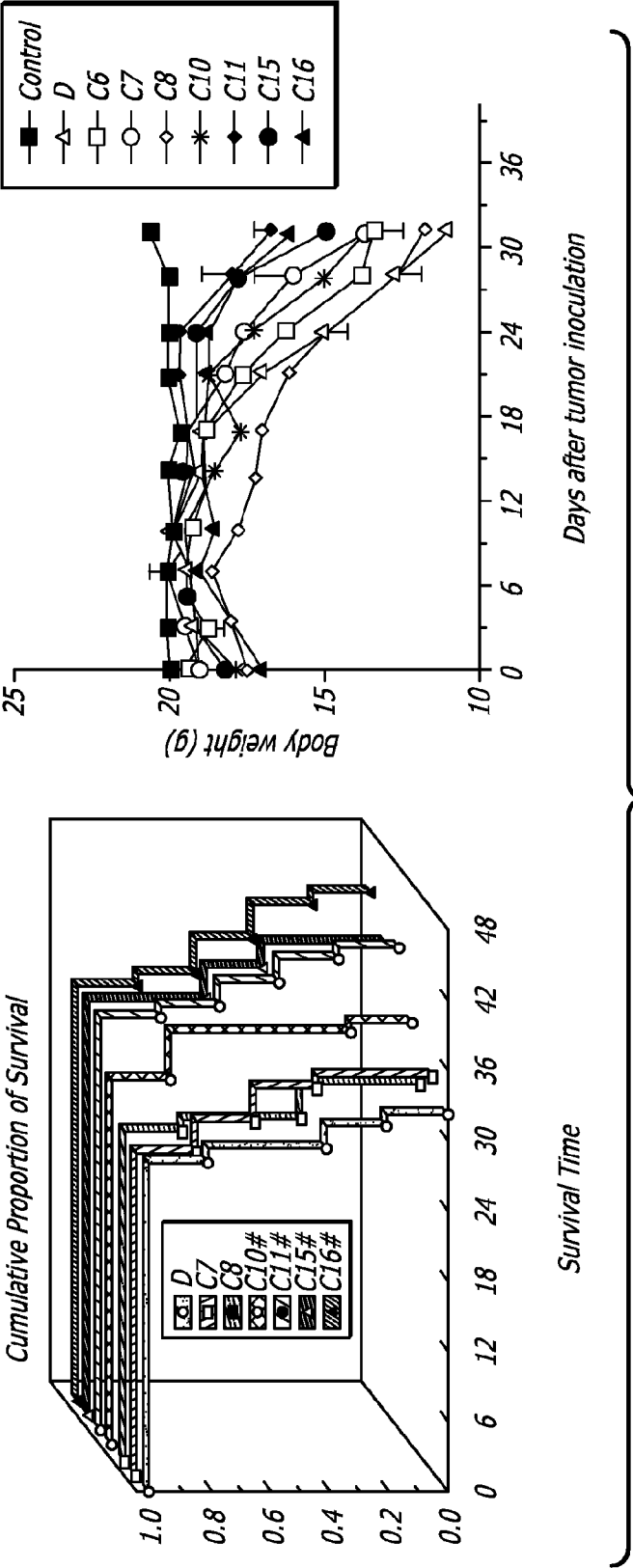


FIG. 37C

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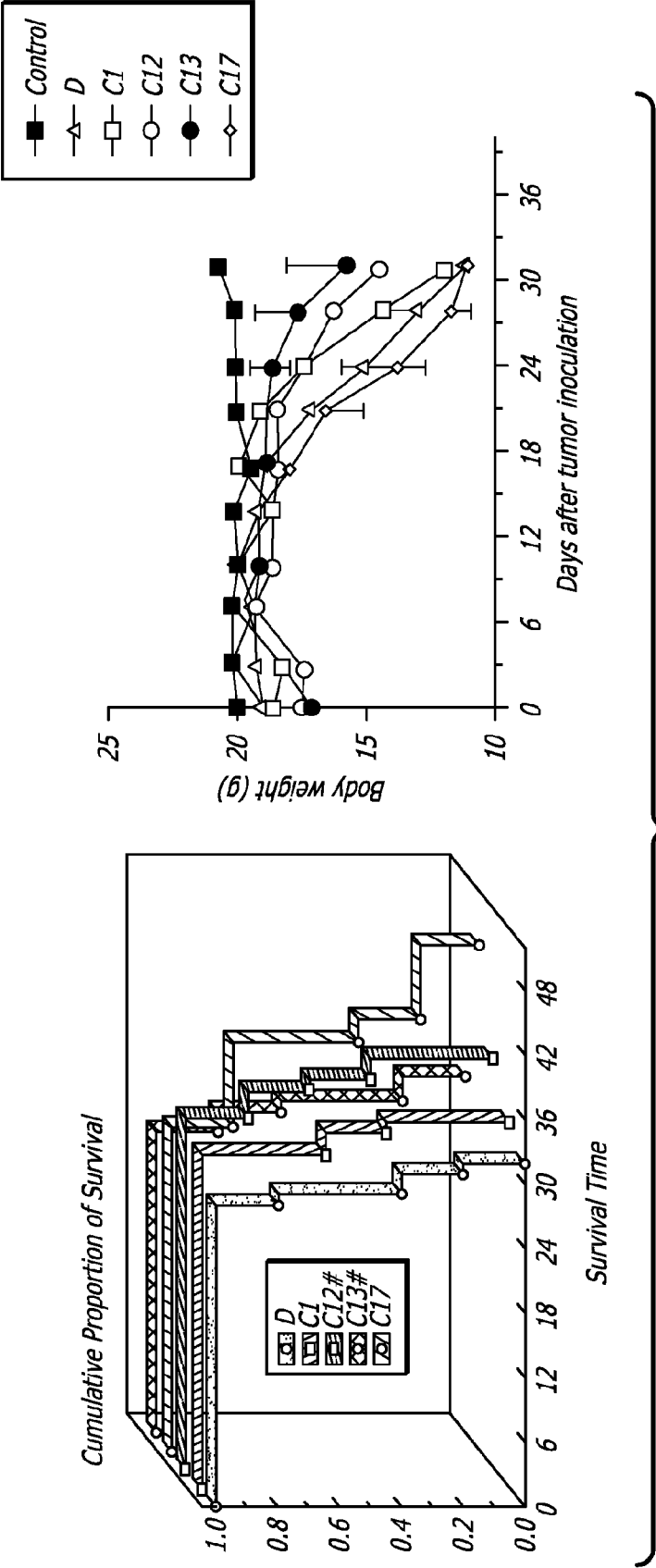
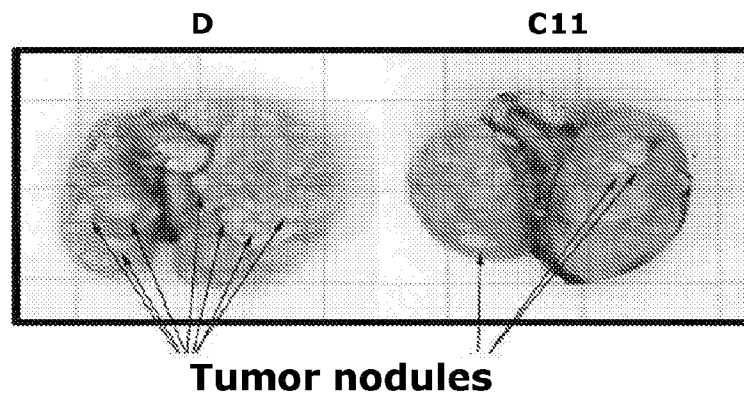
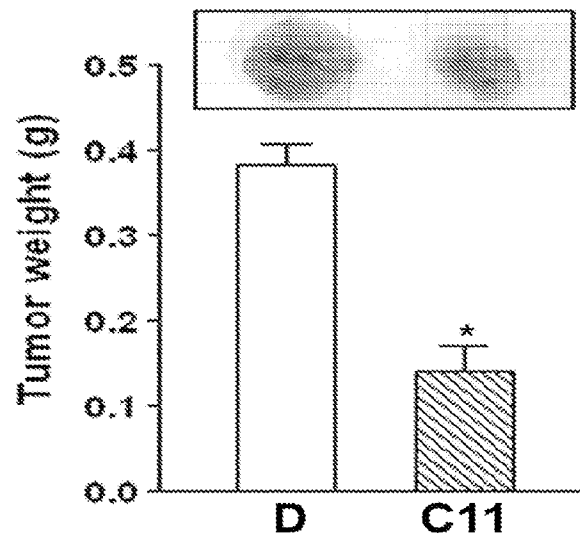


FIG. 37D

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*FIG. 38A**FIG. 38B*

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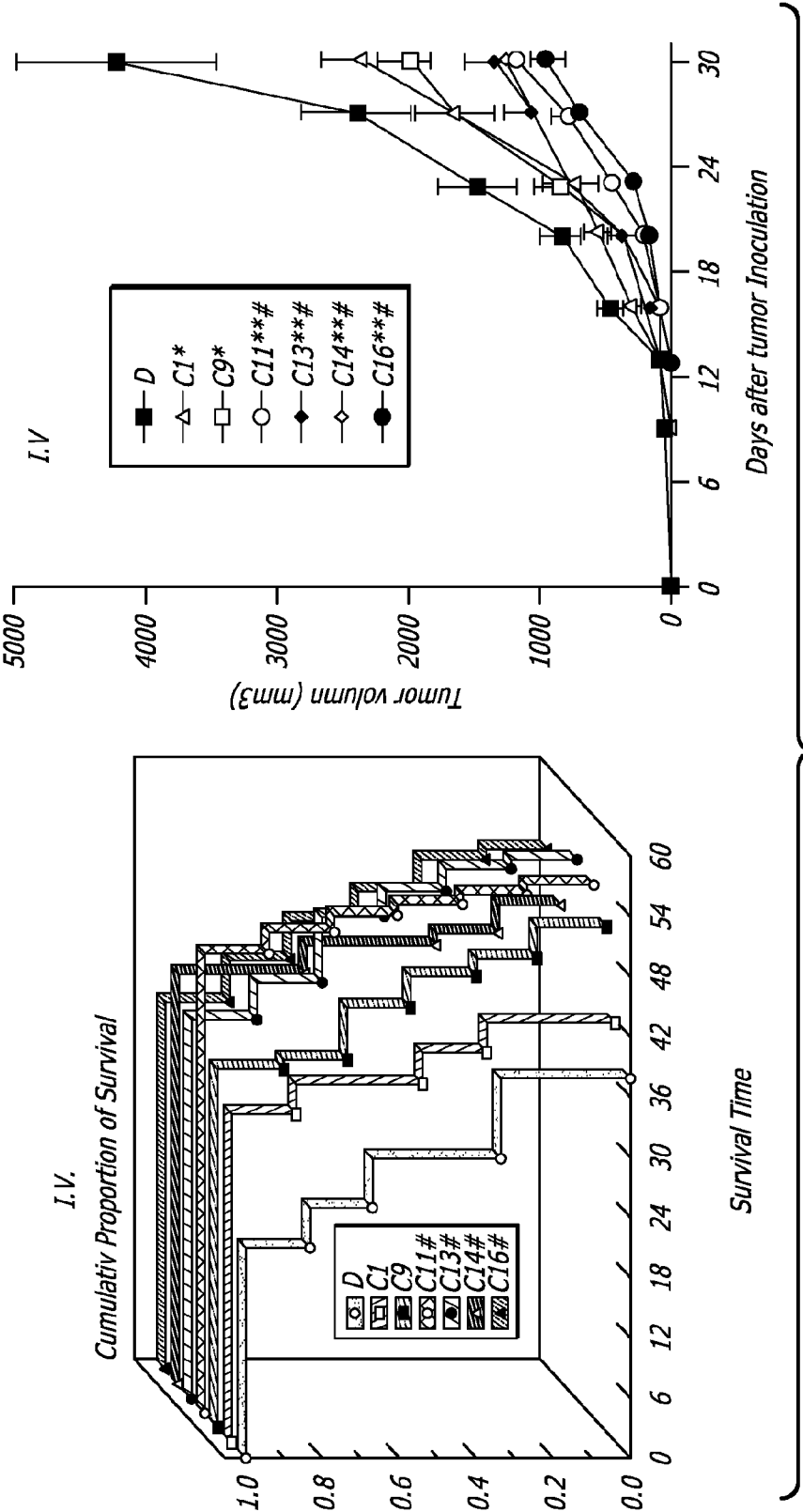


FIG. 39A

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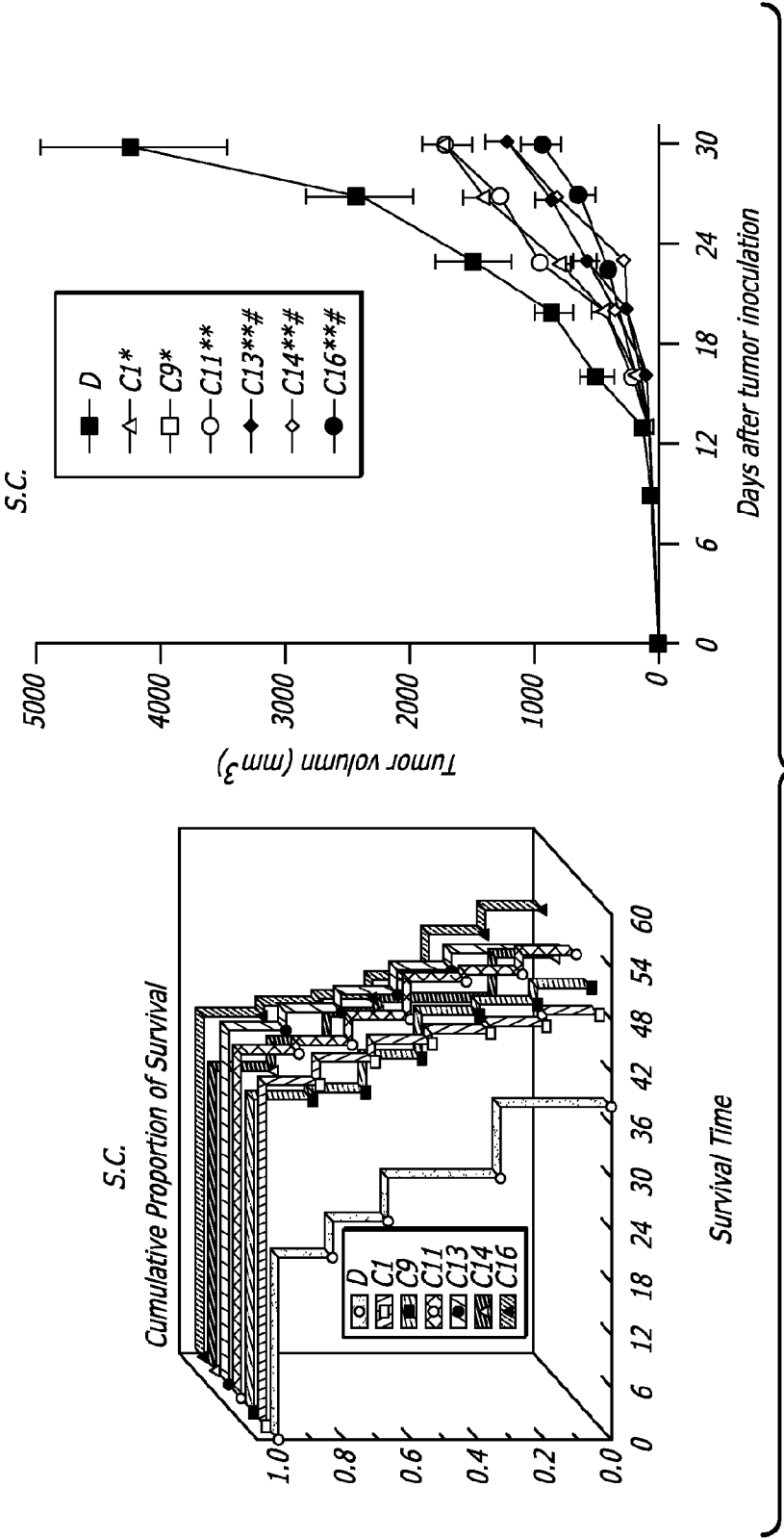


FIG. 39B

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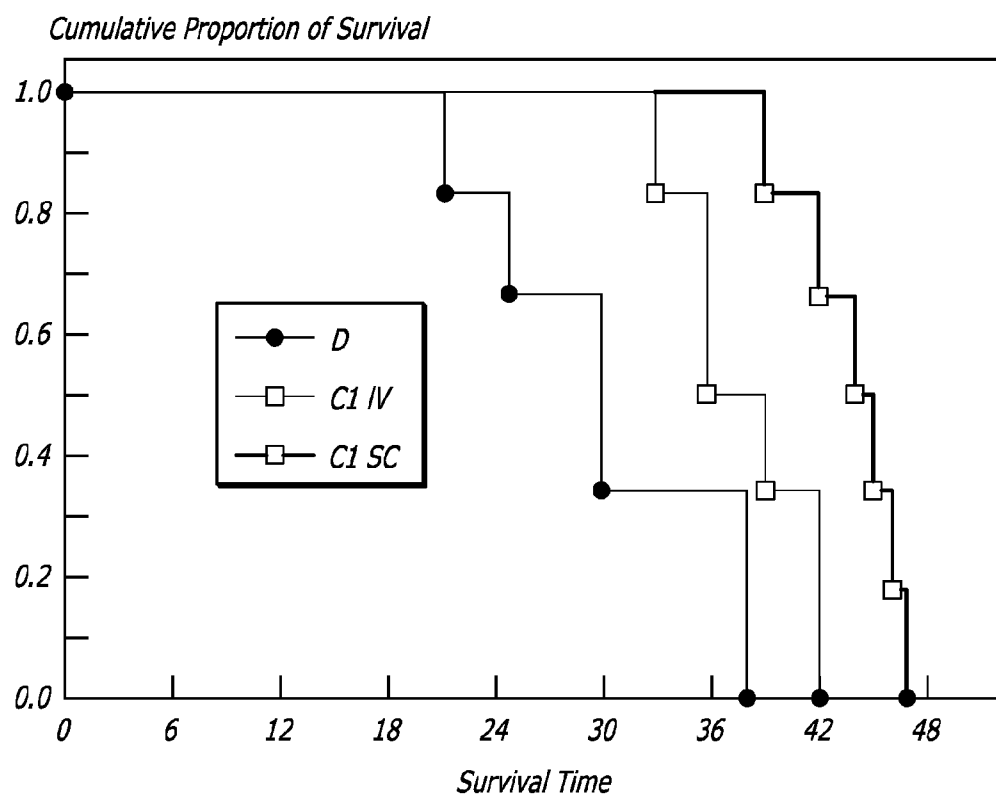


FIG. 40

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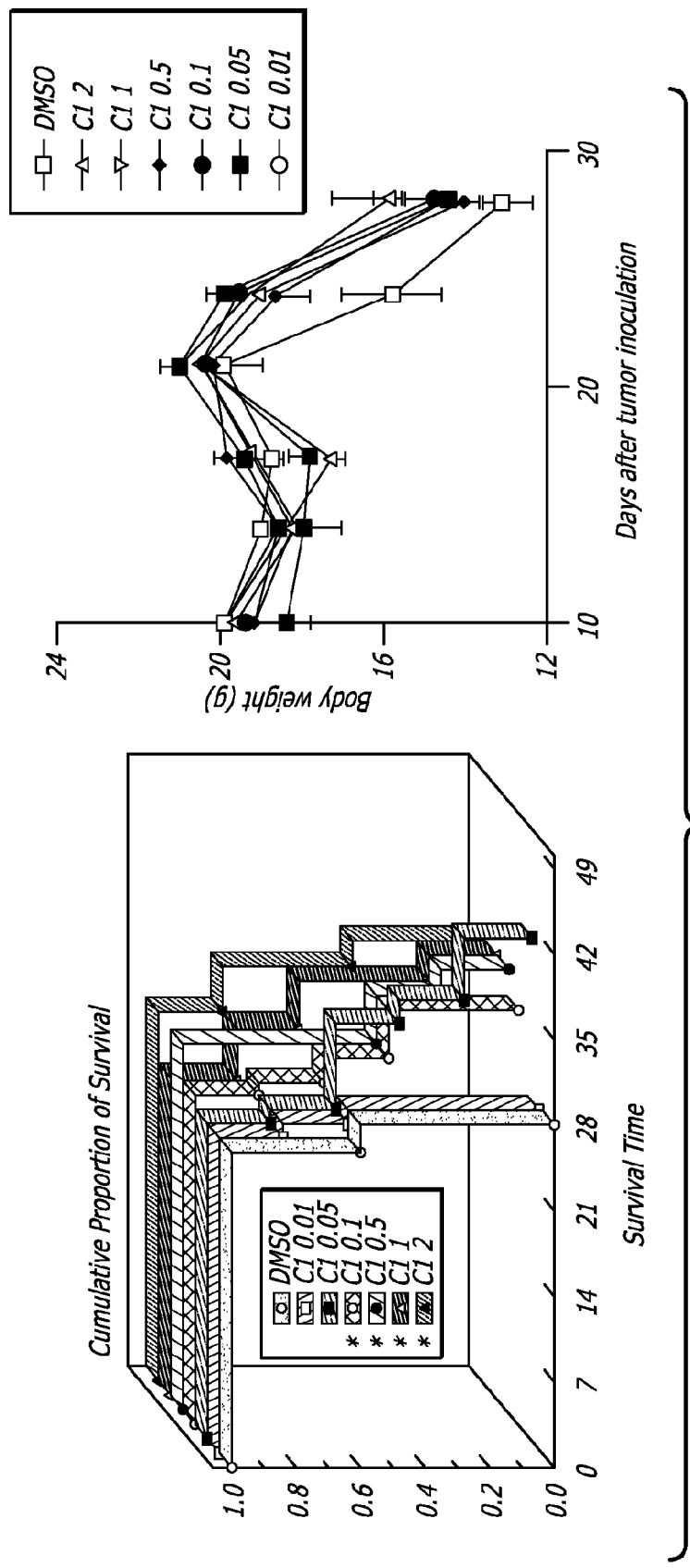


FIG. 41A

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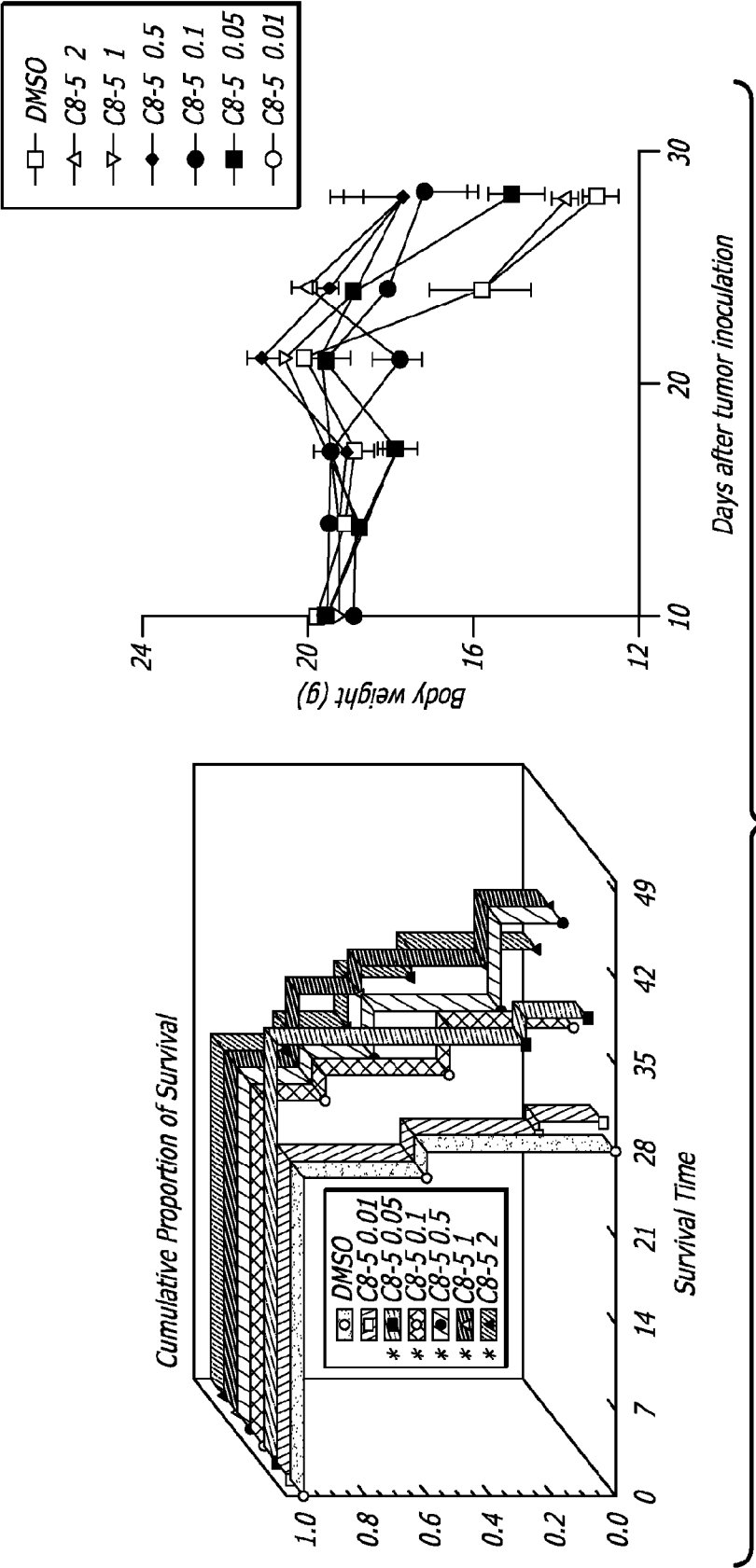


FIG. 41B

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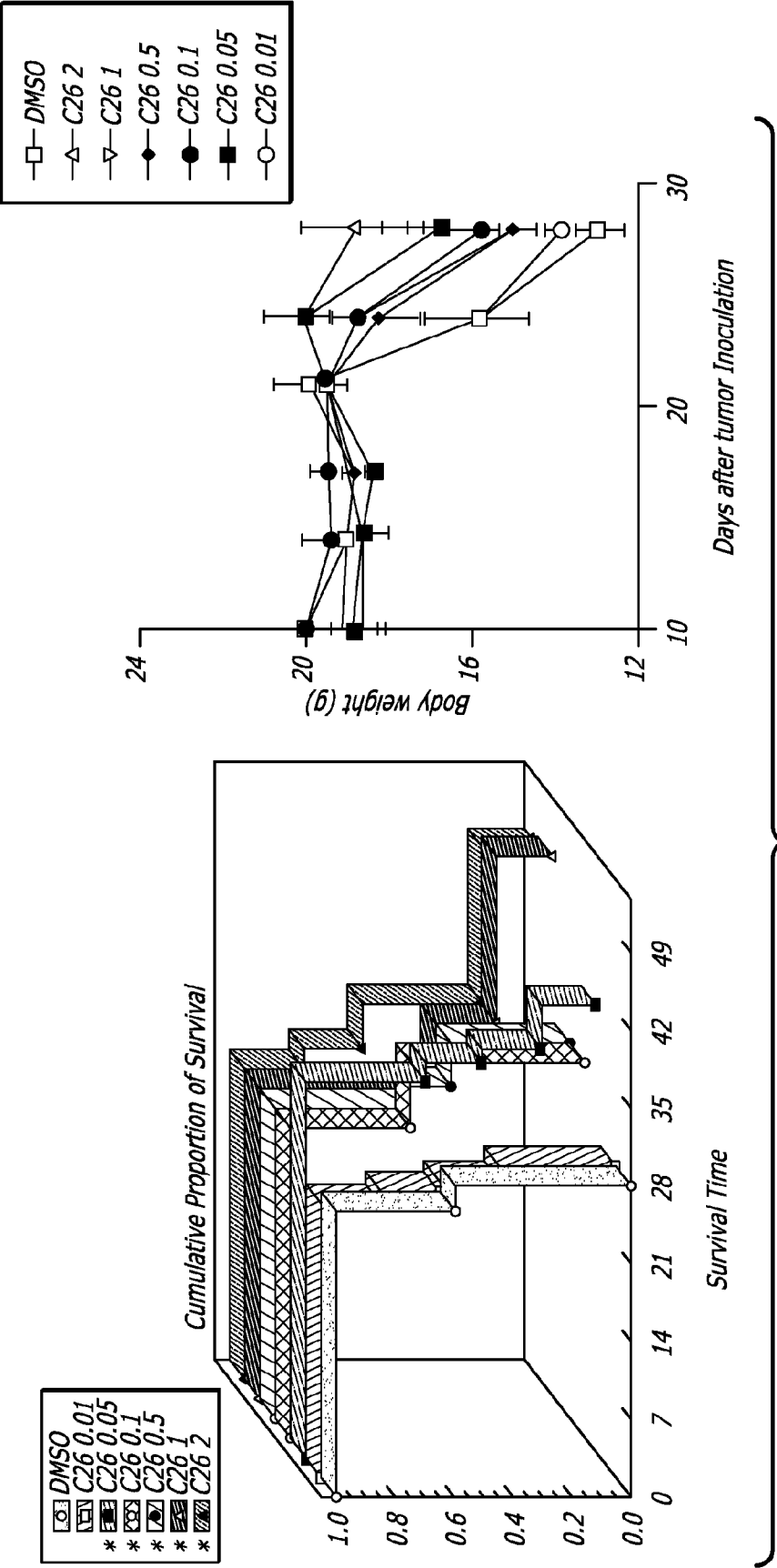


FIG. 41C

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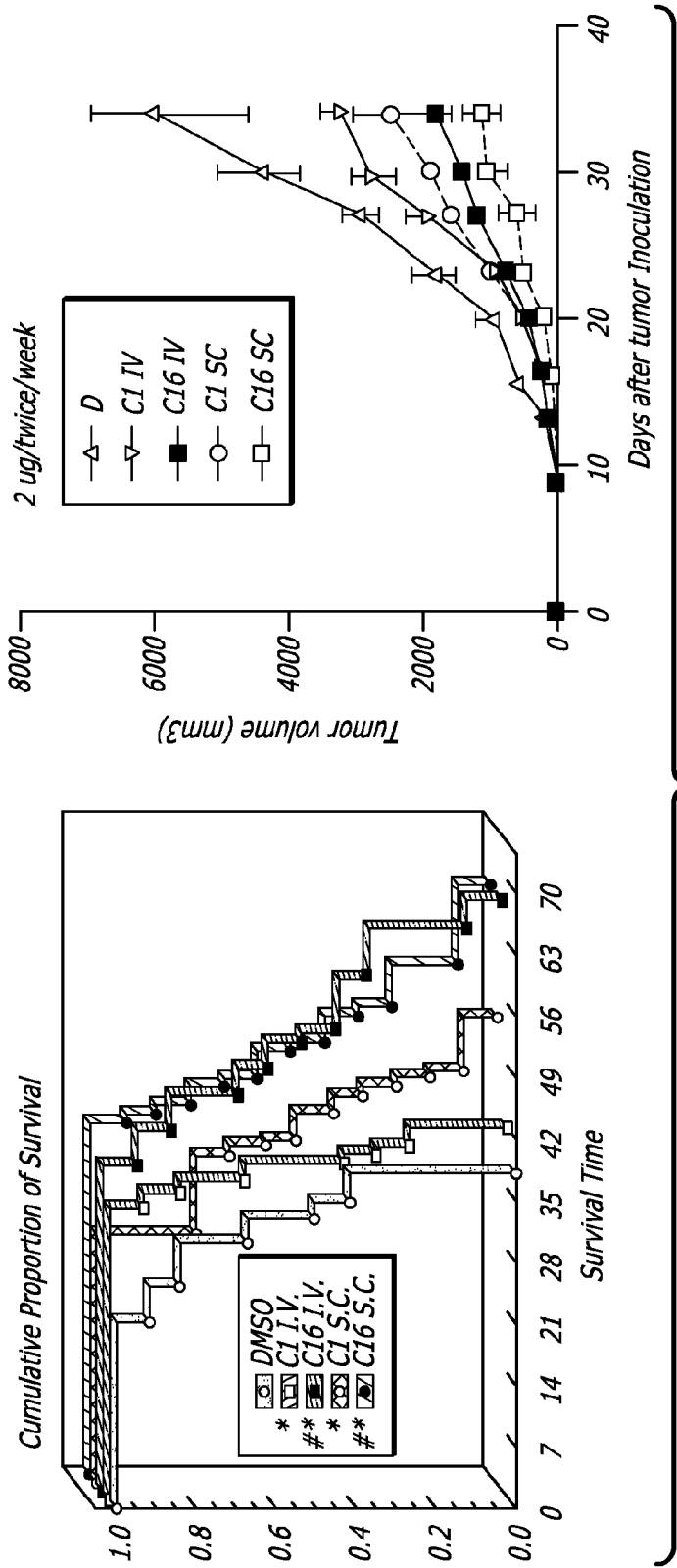


FIG. 42A

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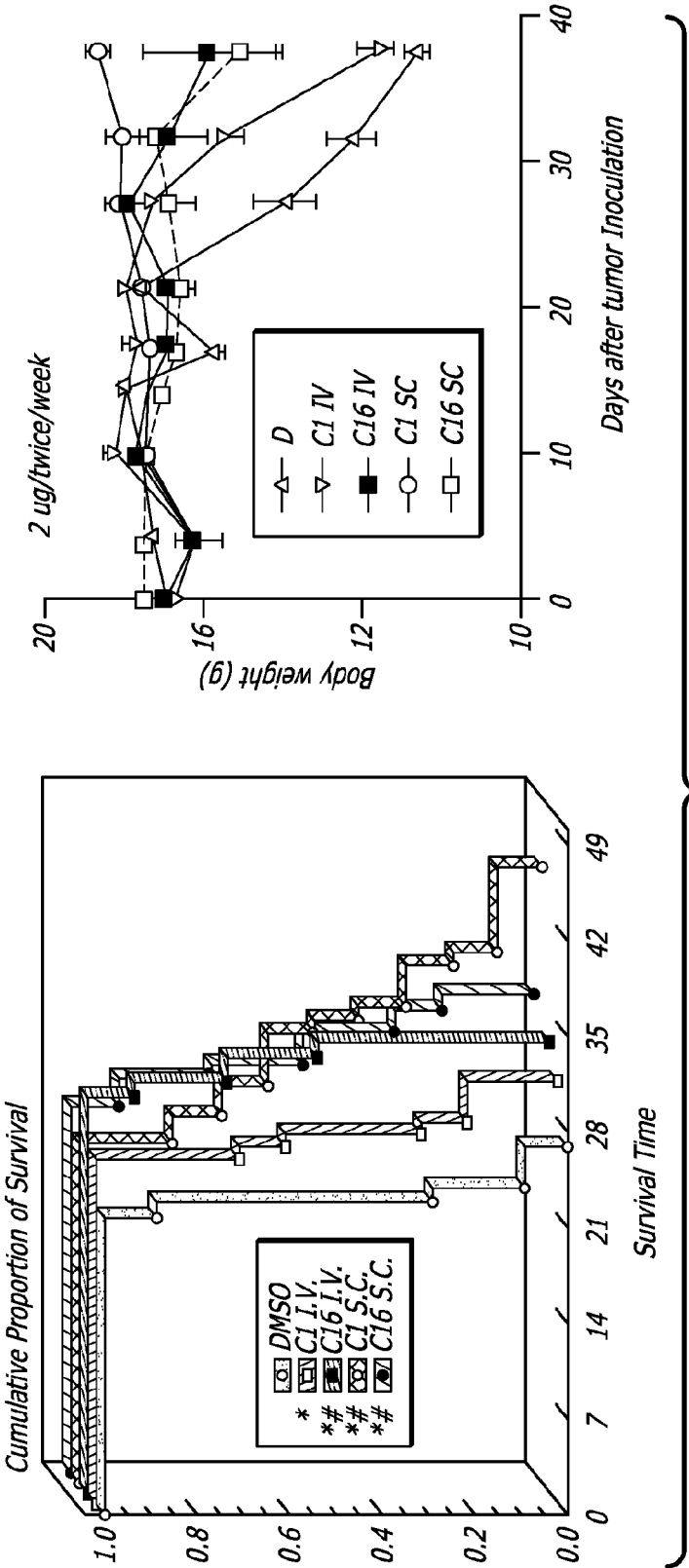


FIG. 42B

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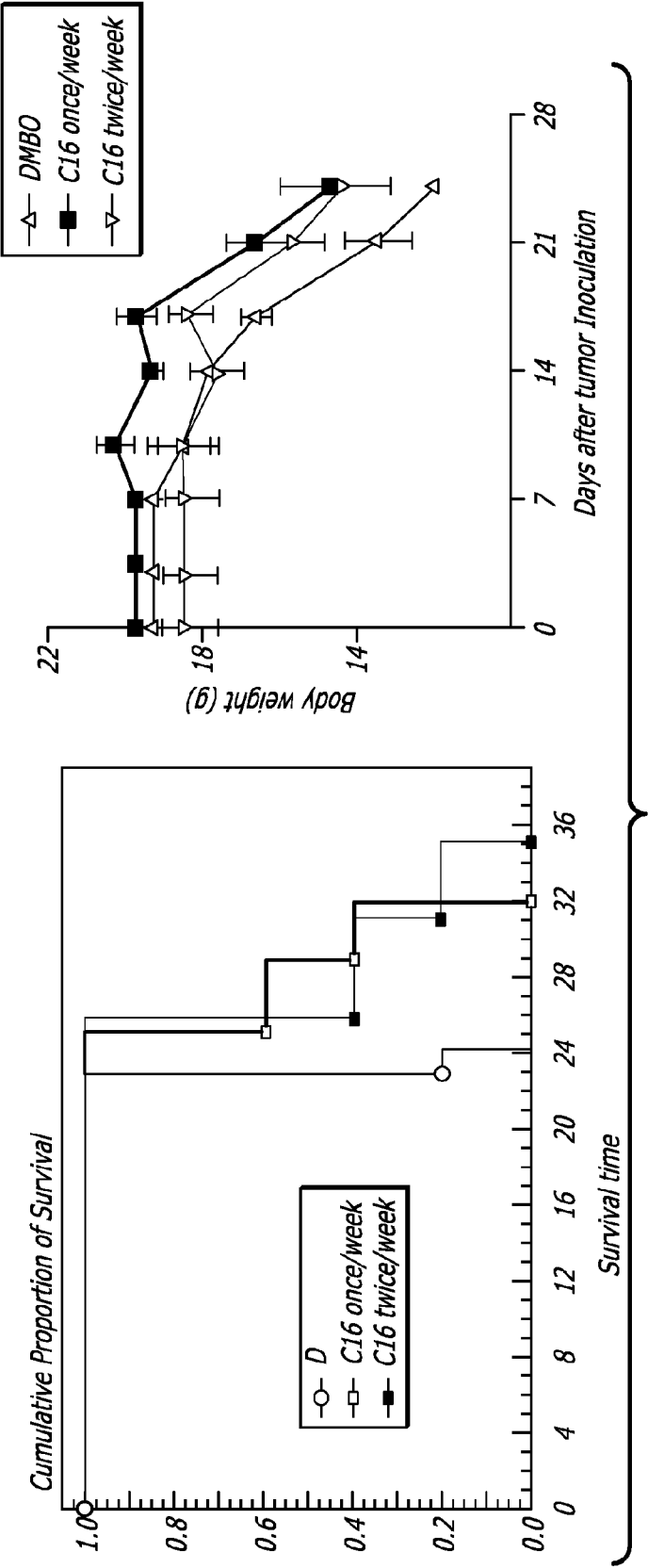


FIG. 42C

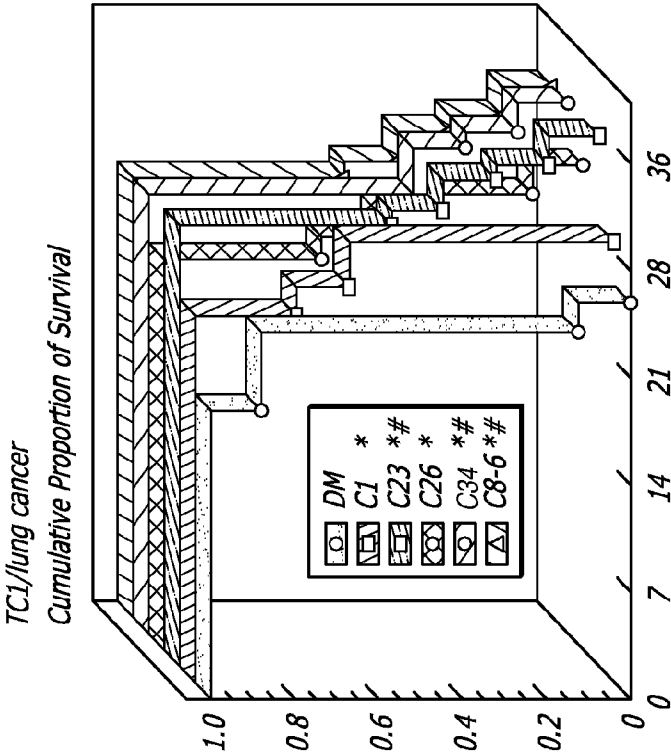


FIG. 43A

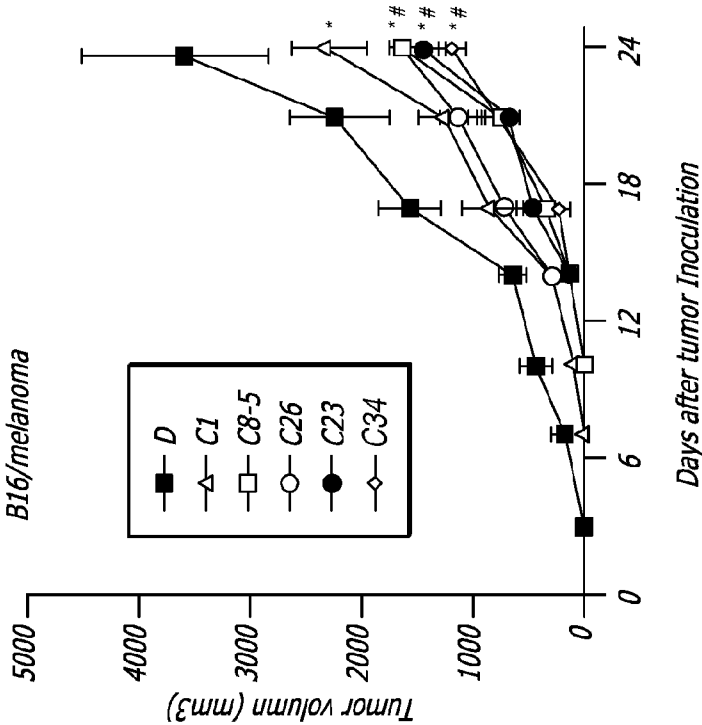
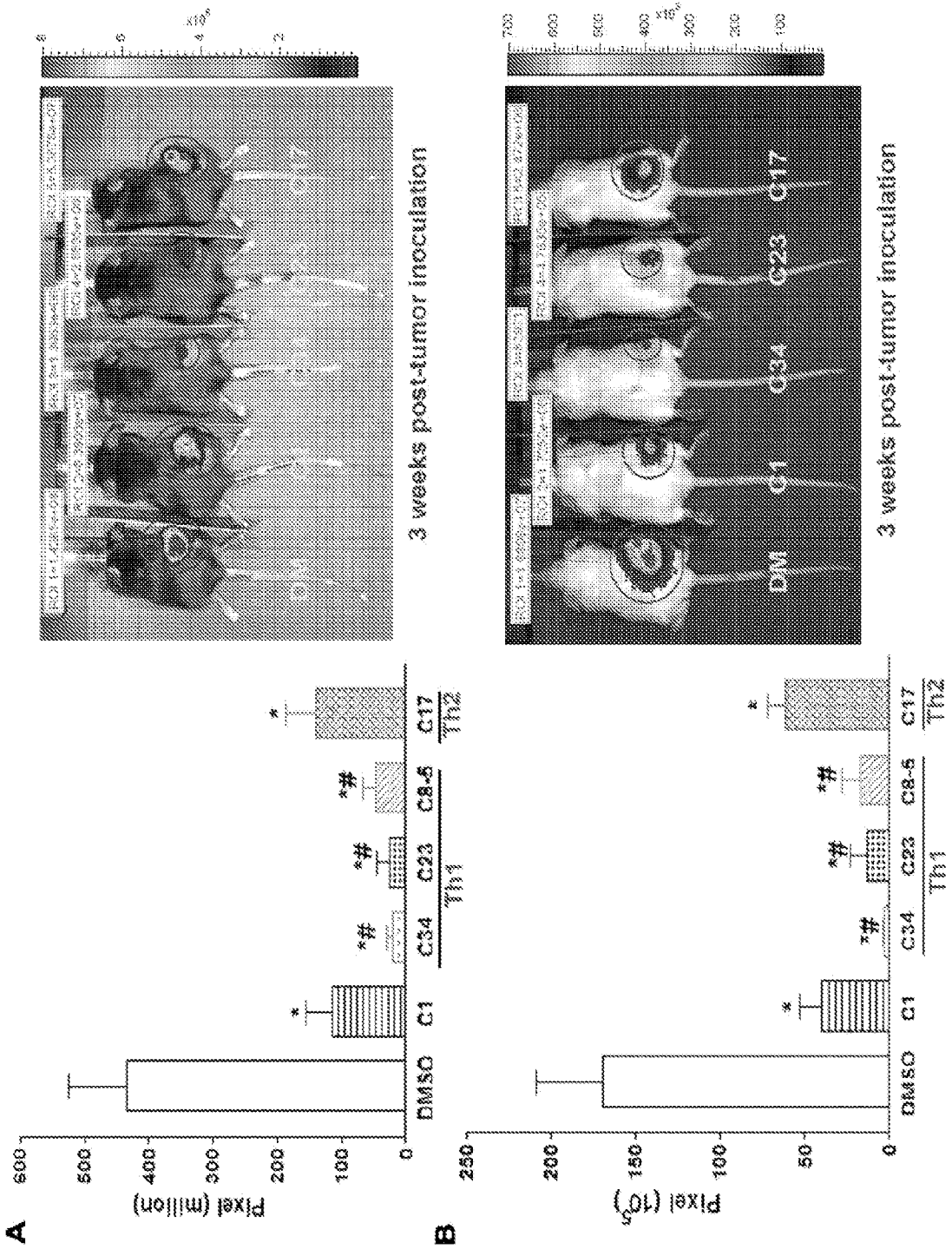


FIG. 43B

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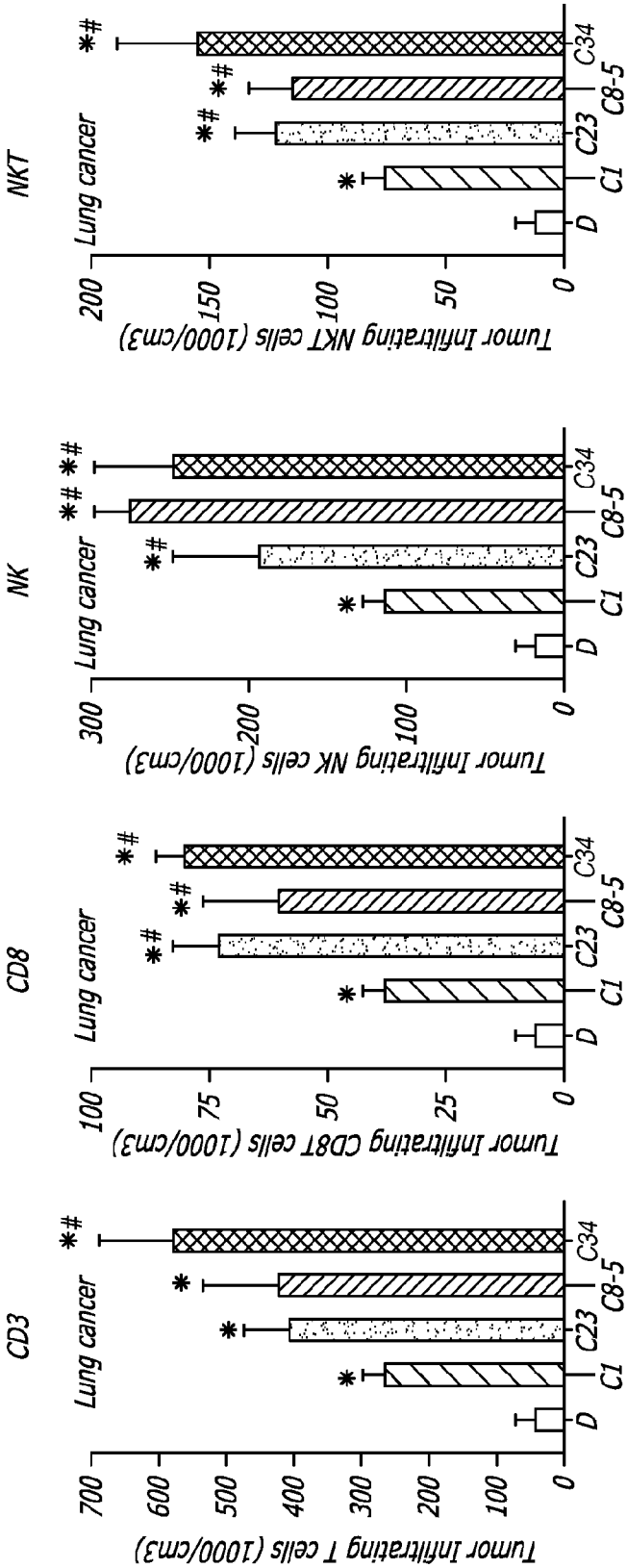


FIG. 45A

FIG. 45B

FIG. 45C

FIG. 45D

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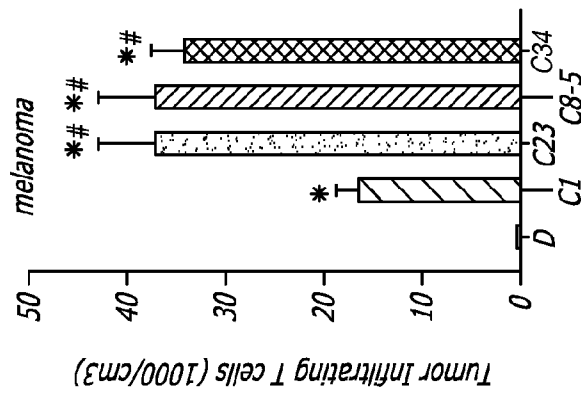


FIG. 45E

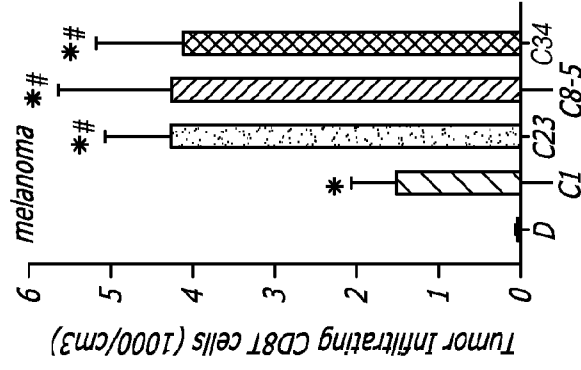


FIG. 45F

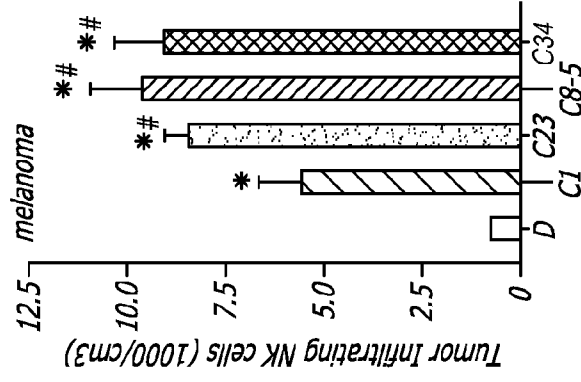


FIG. 45G

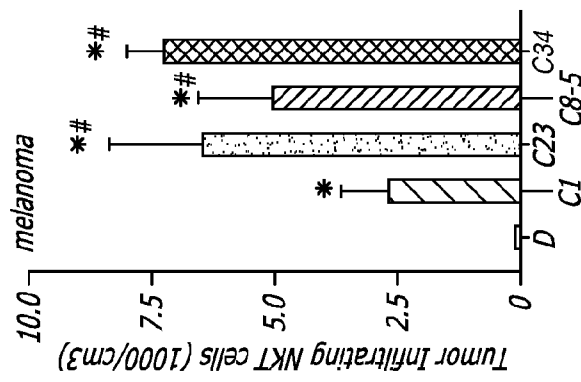


FIG. 45H

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FIG. 46A

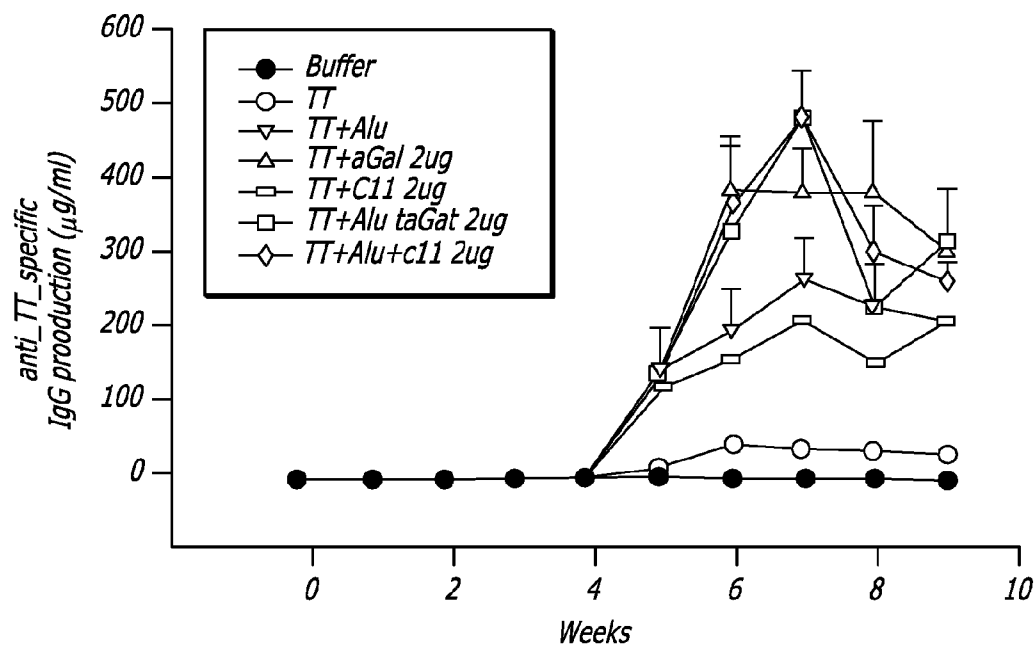
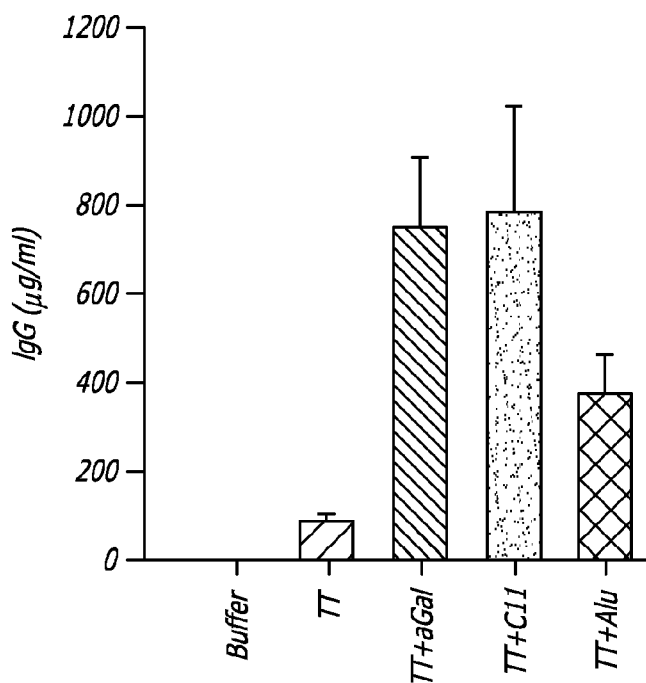
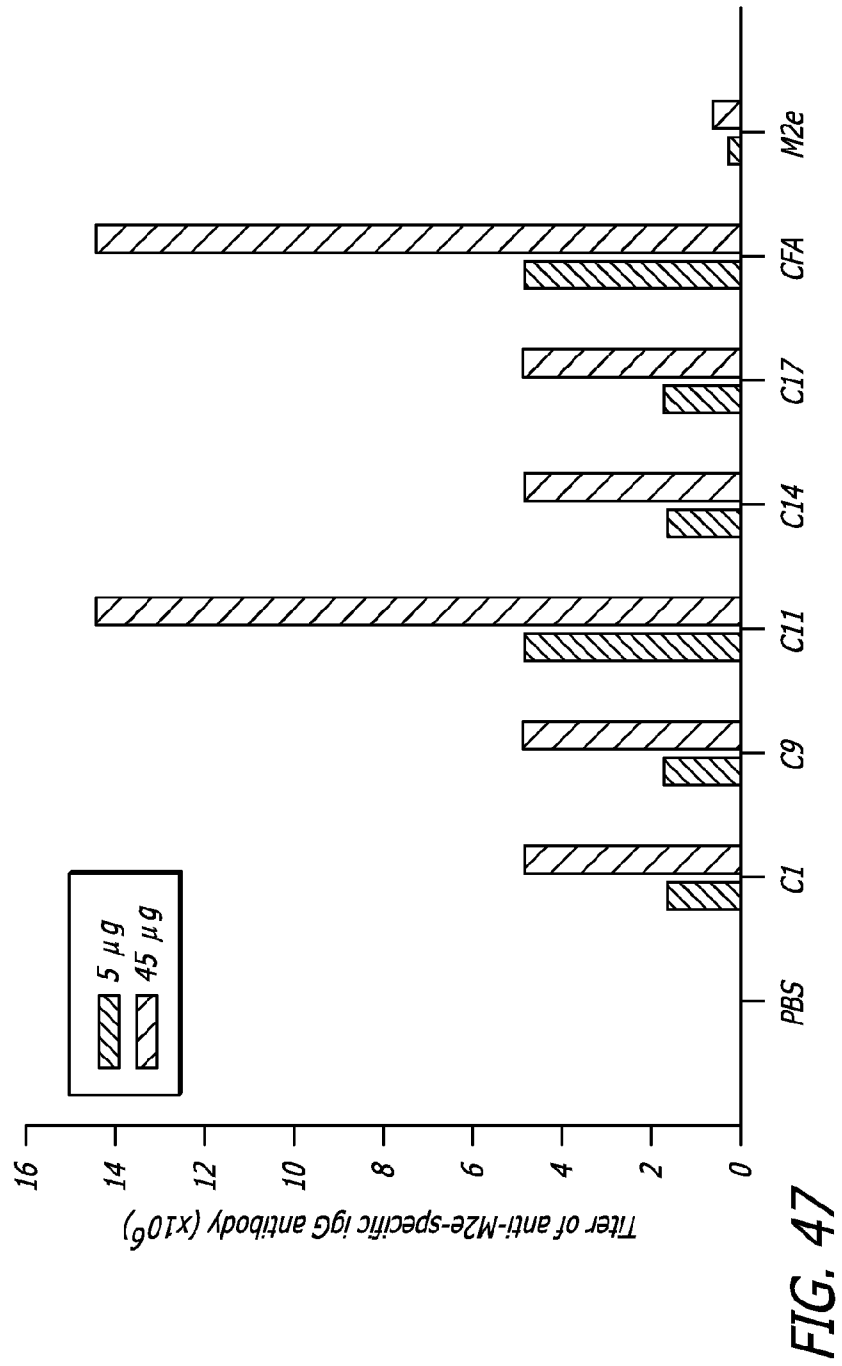


FIG. 46B





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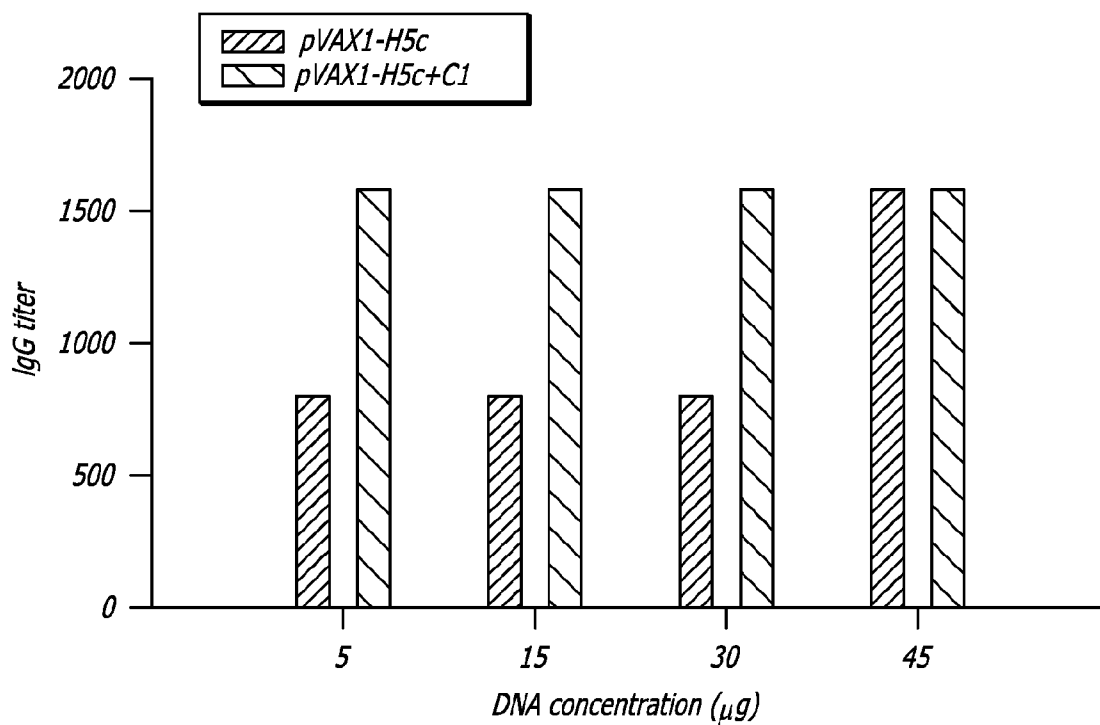


FIG. 48A

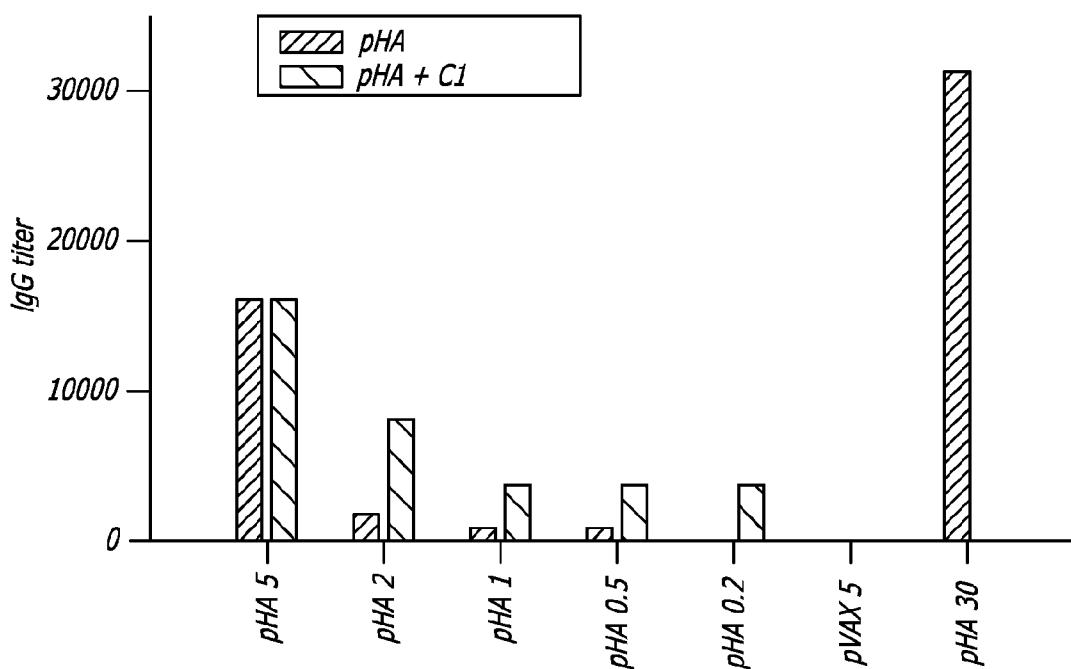


FIG. 48B

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FIG. 48C

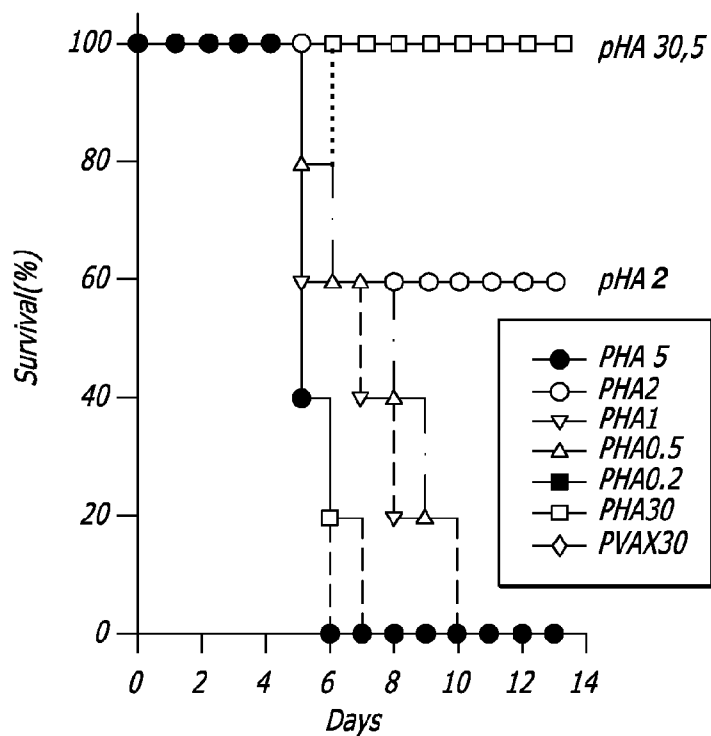
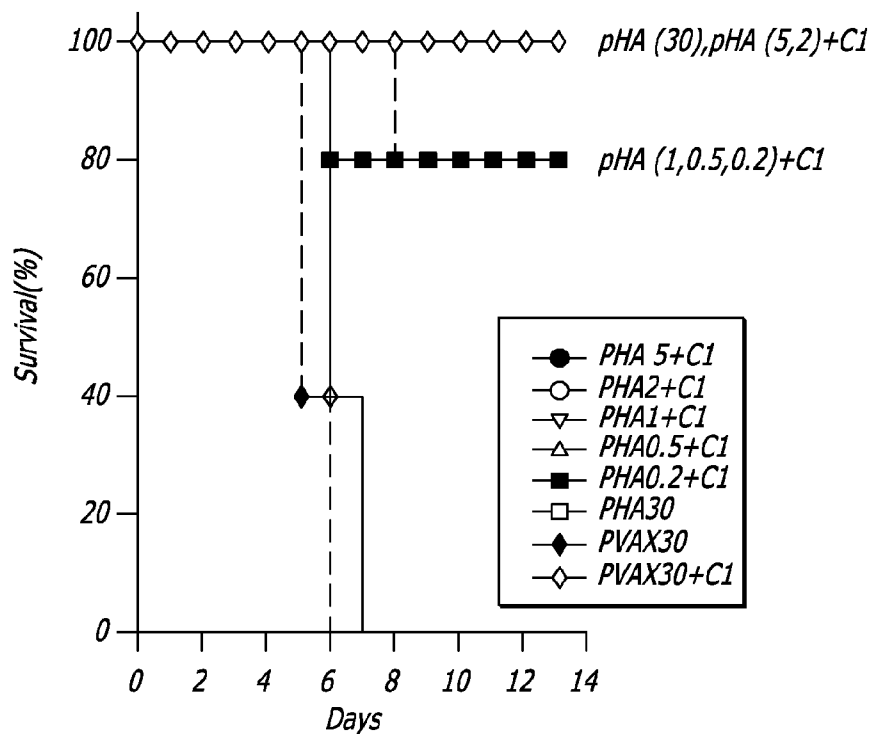


FIG. 48D



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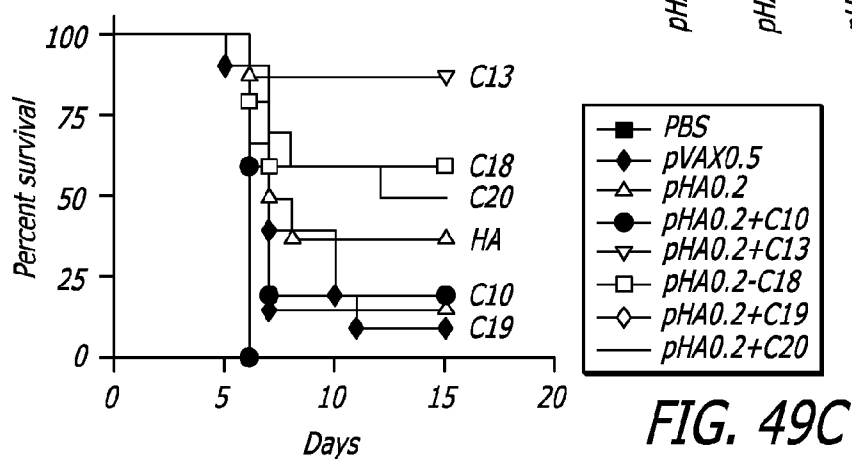
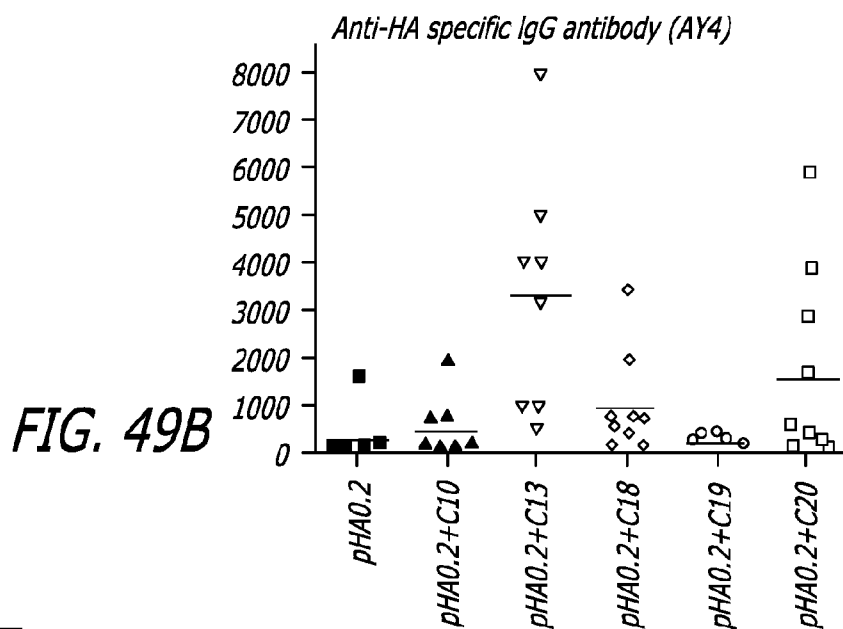
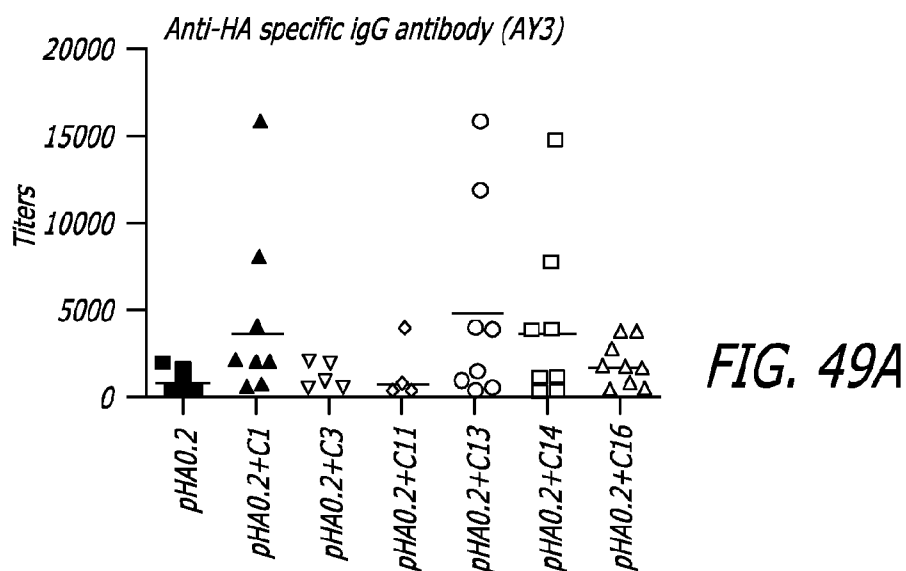
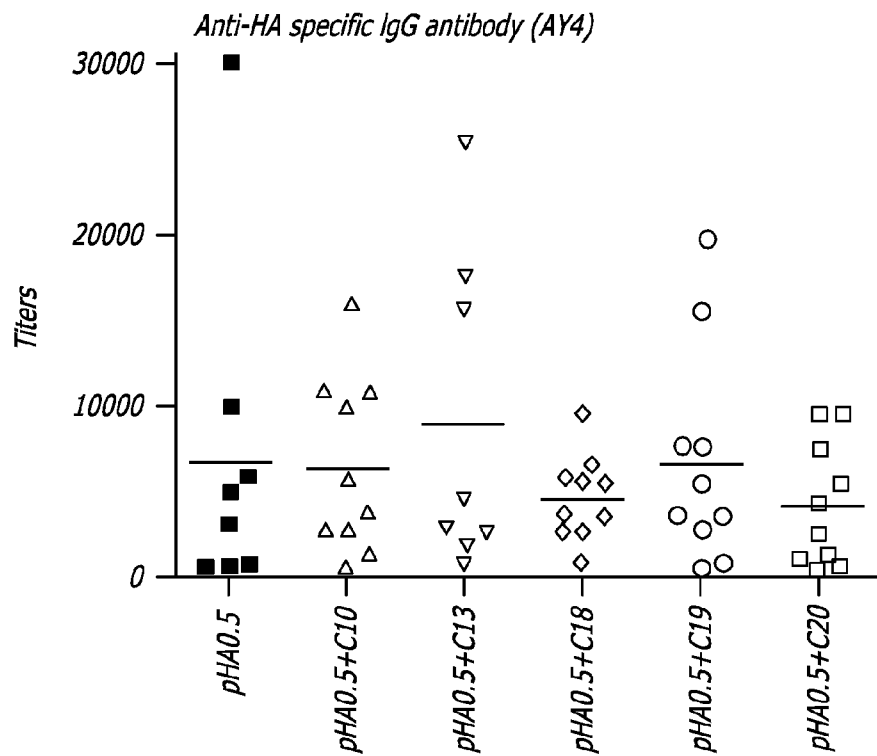
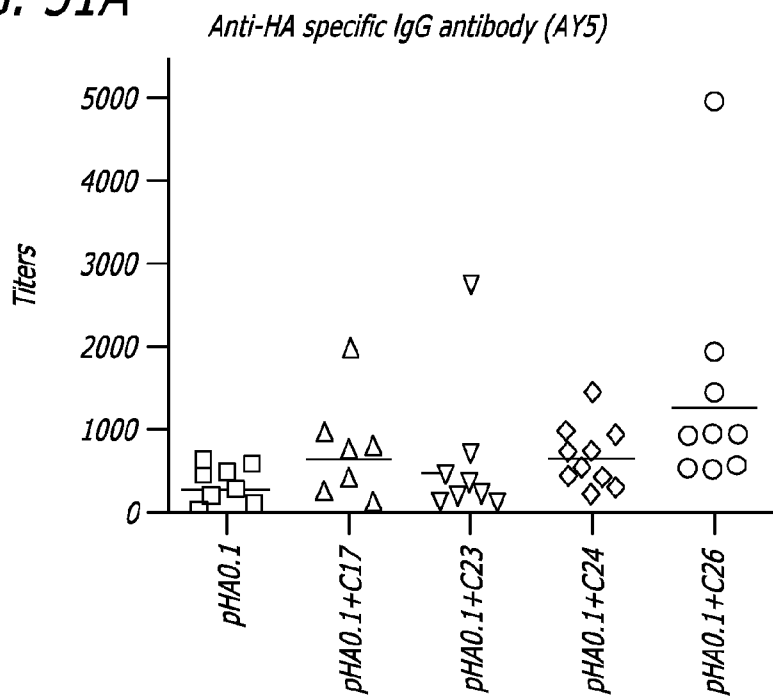
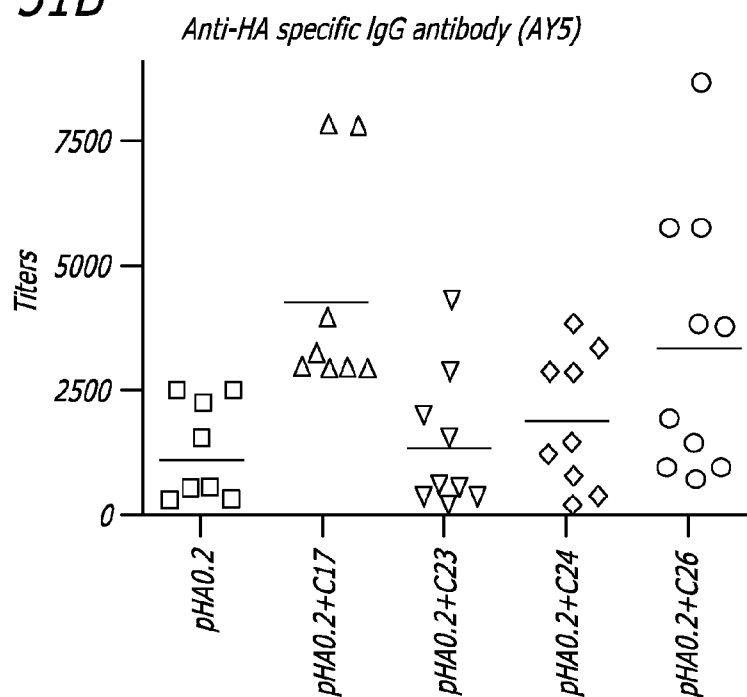


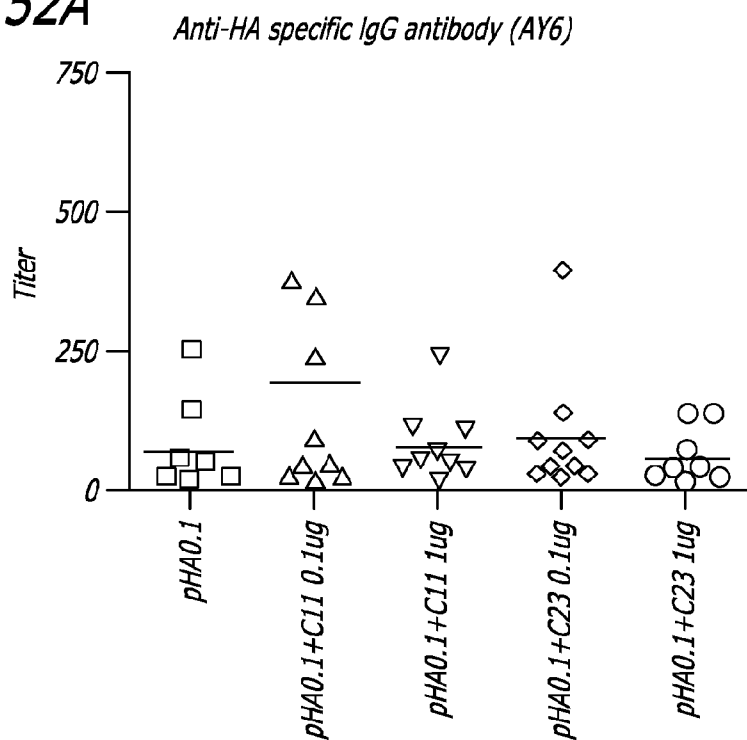
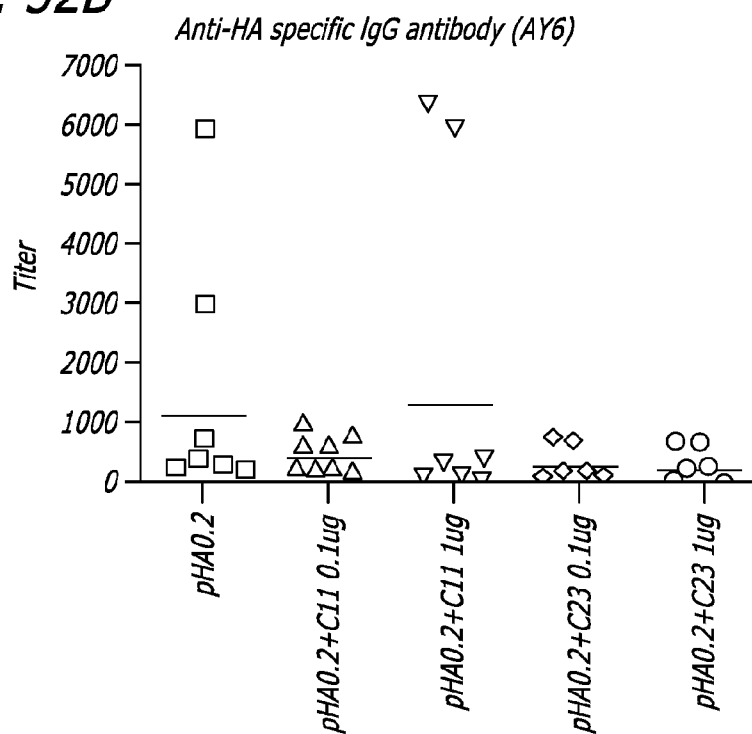
FIG. 50A



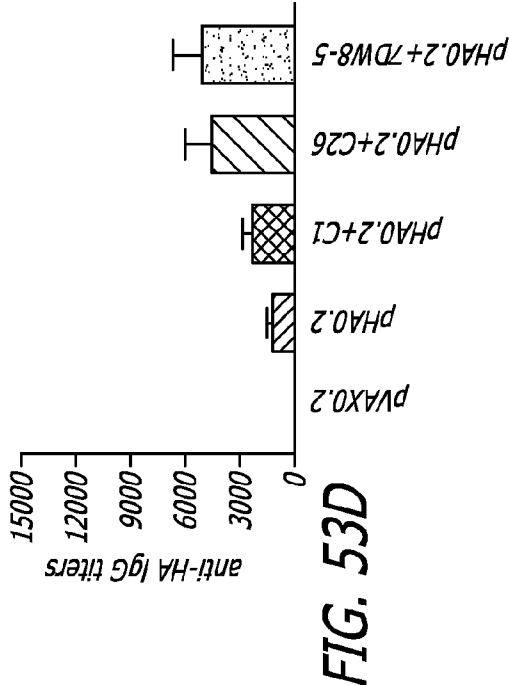
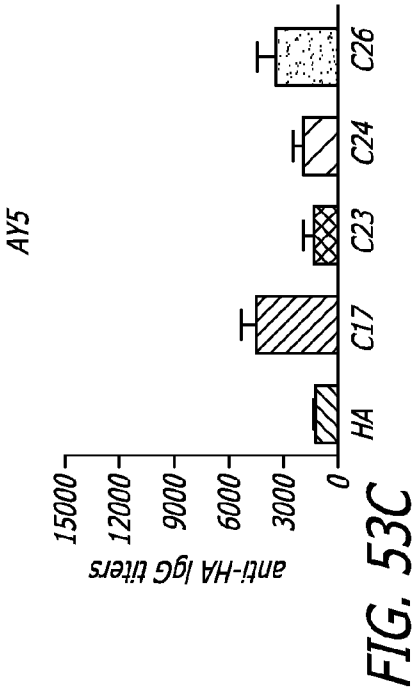
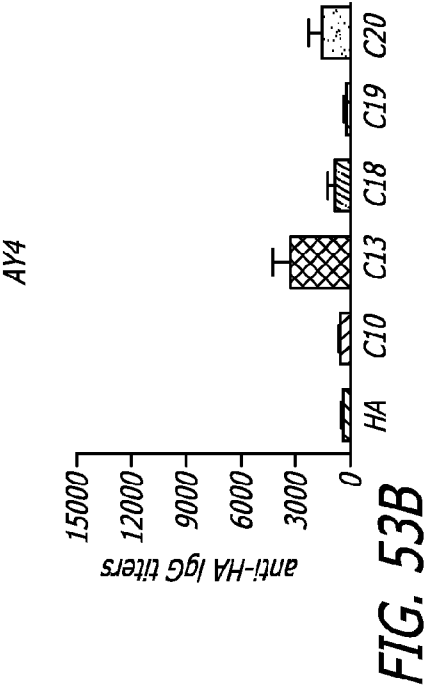
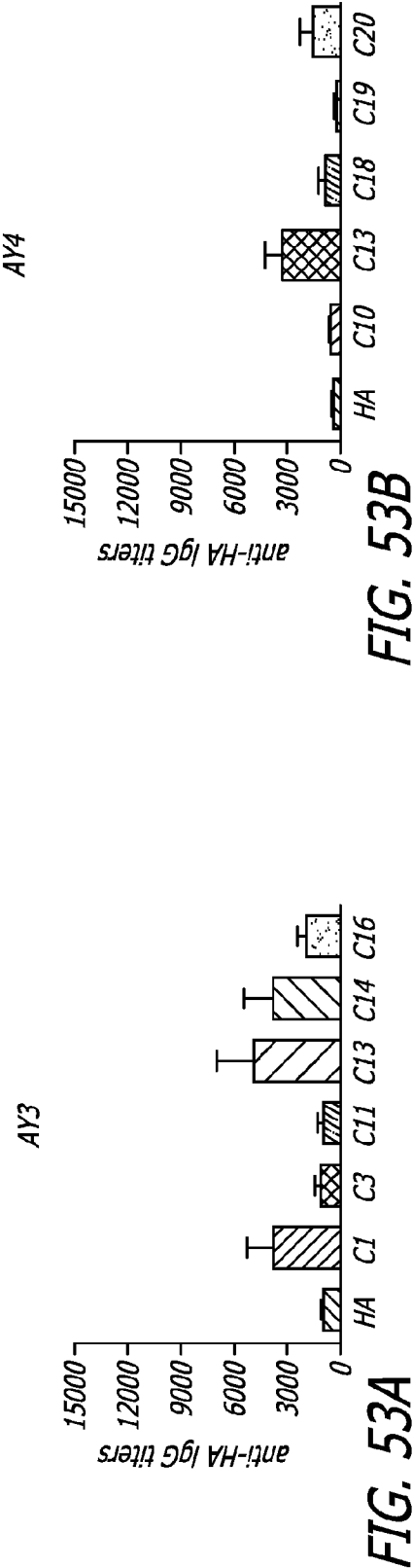
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FIG. 51A**FIG. 51B**

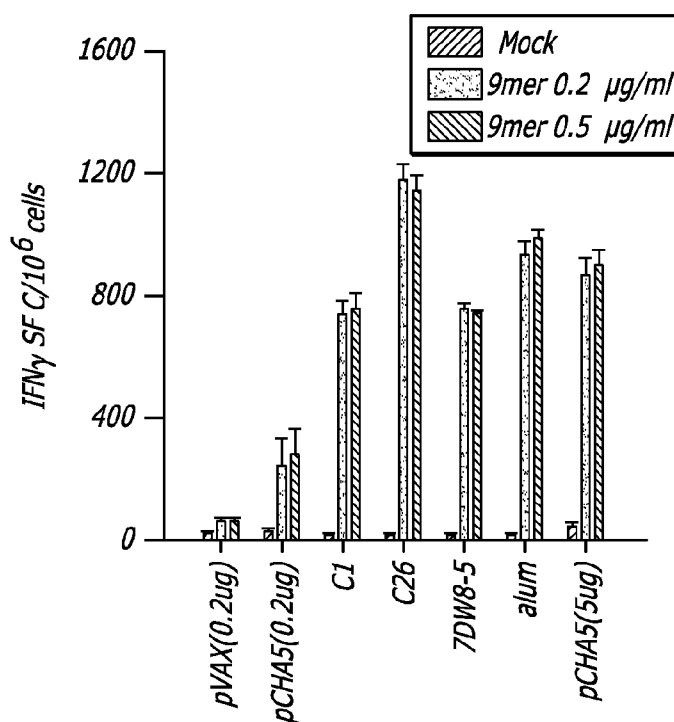
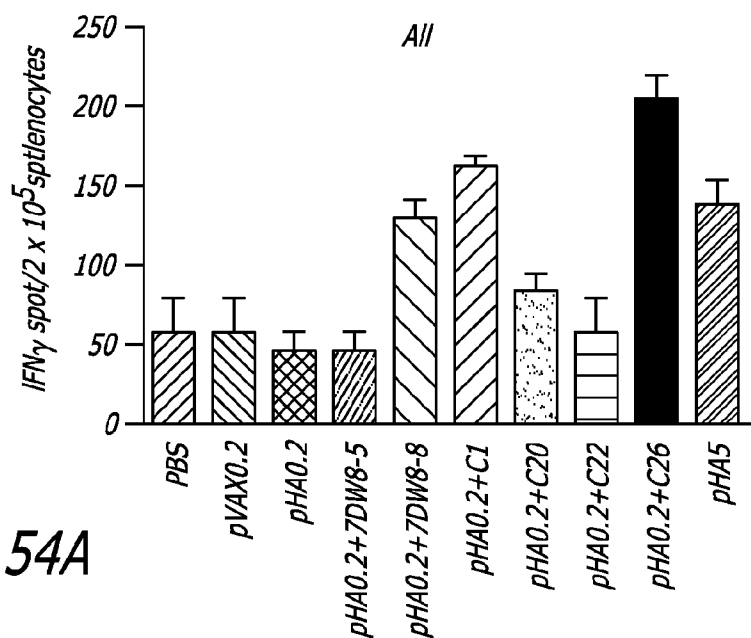
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FIG. 52A**FIG. 52B**

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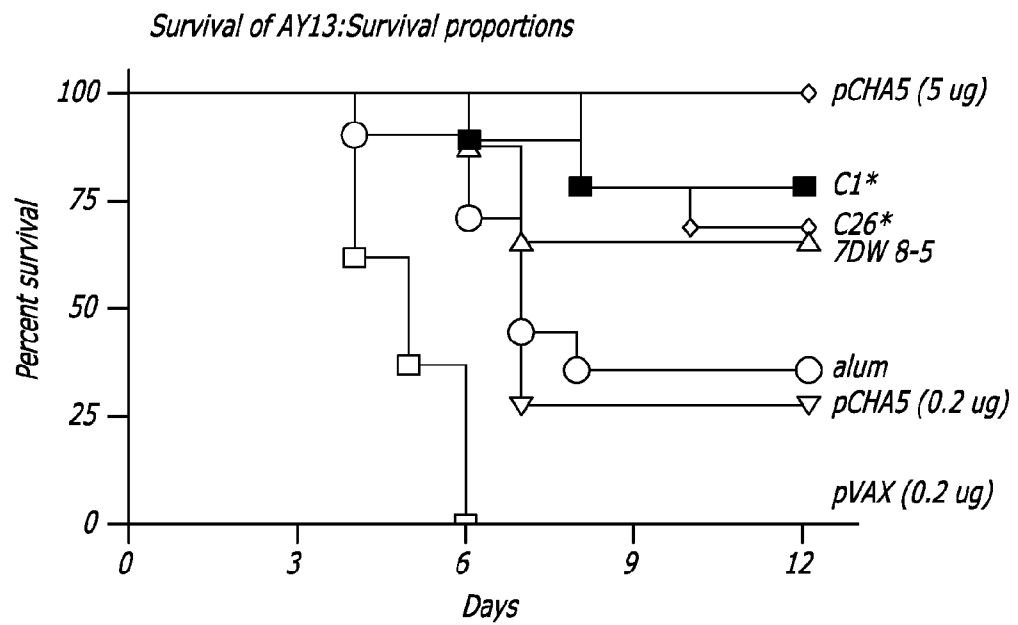


FIG. 55

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FIG. 56A

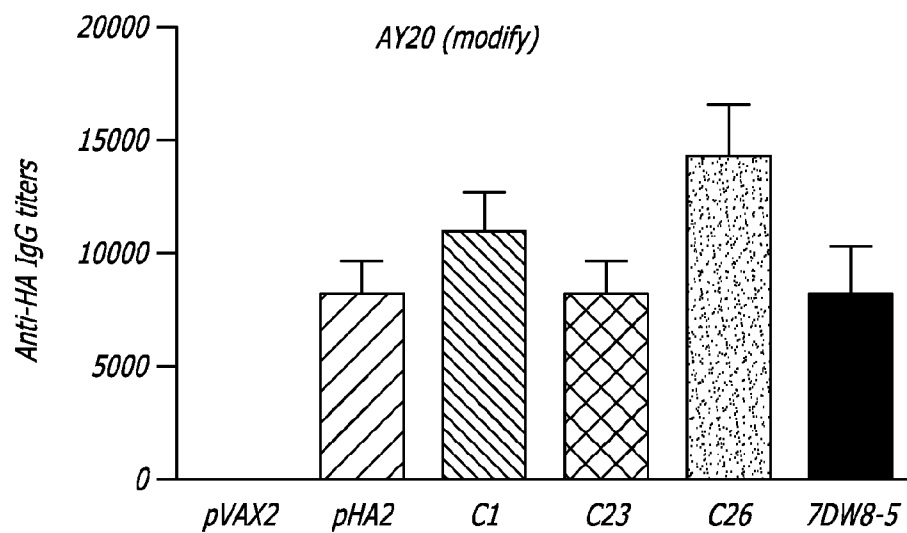
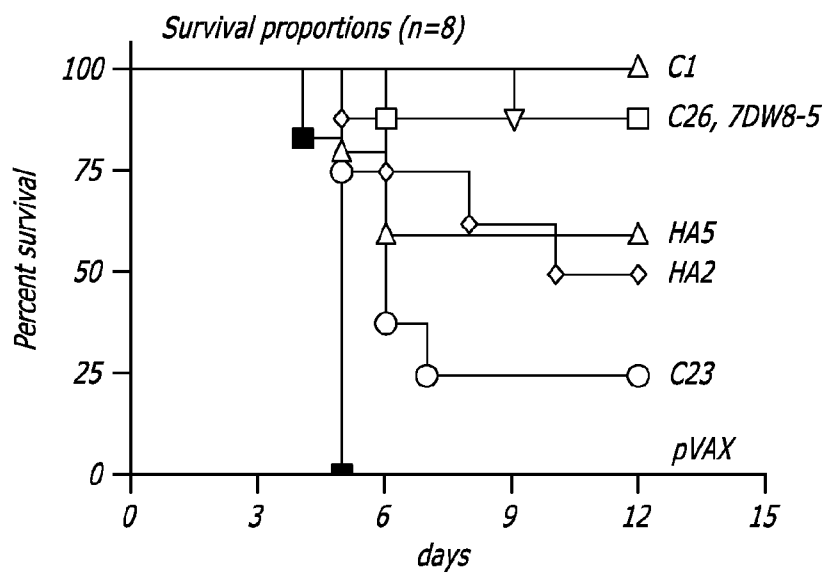
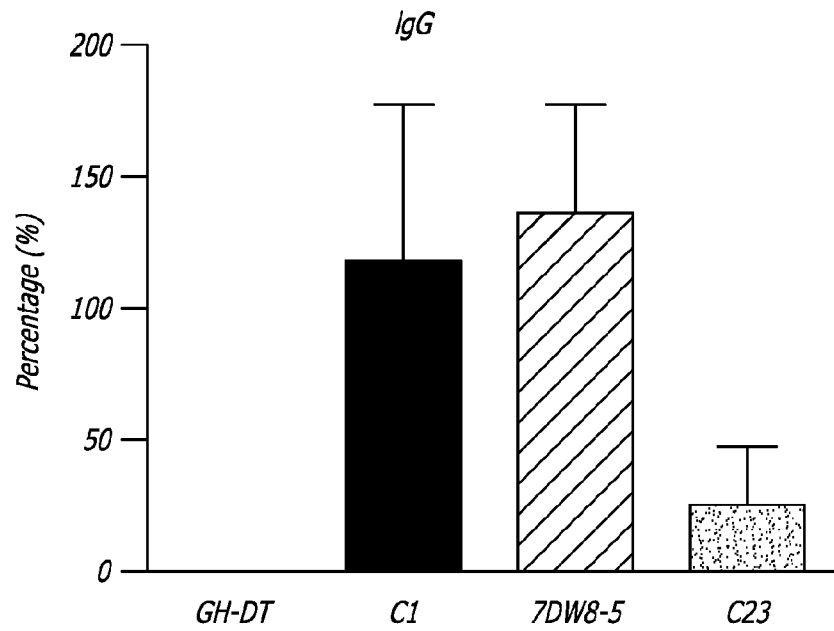
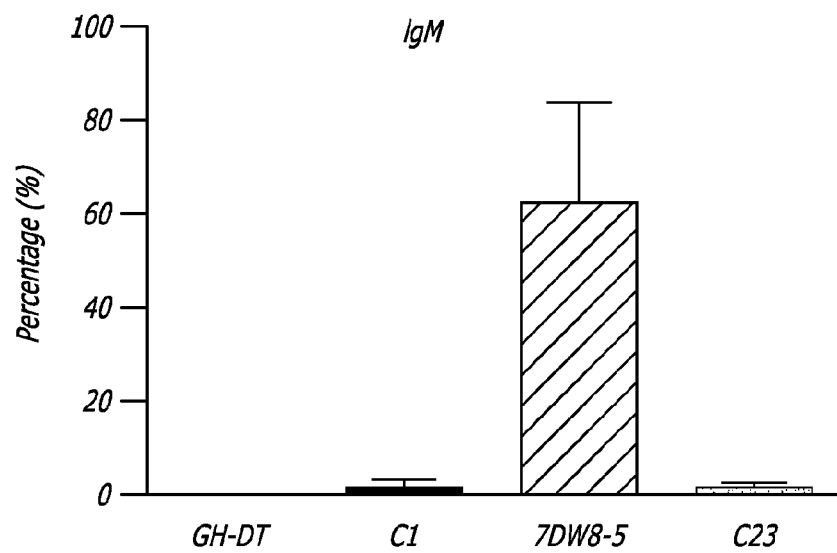


FIG. 56B



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FIG. 57A**FIG. 57B**

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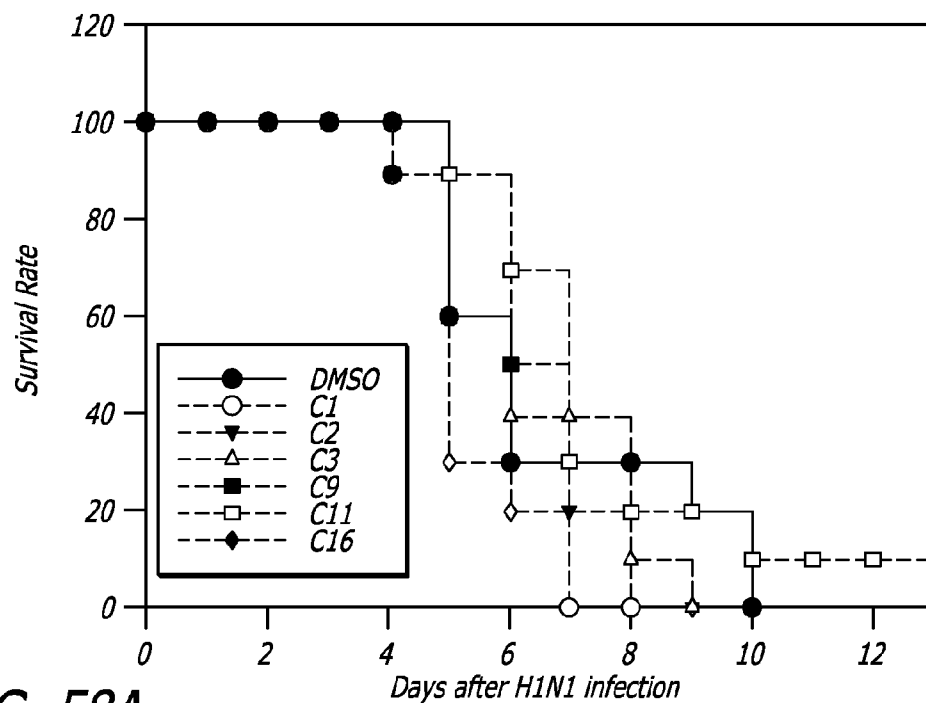


FIG. 58A

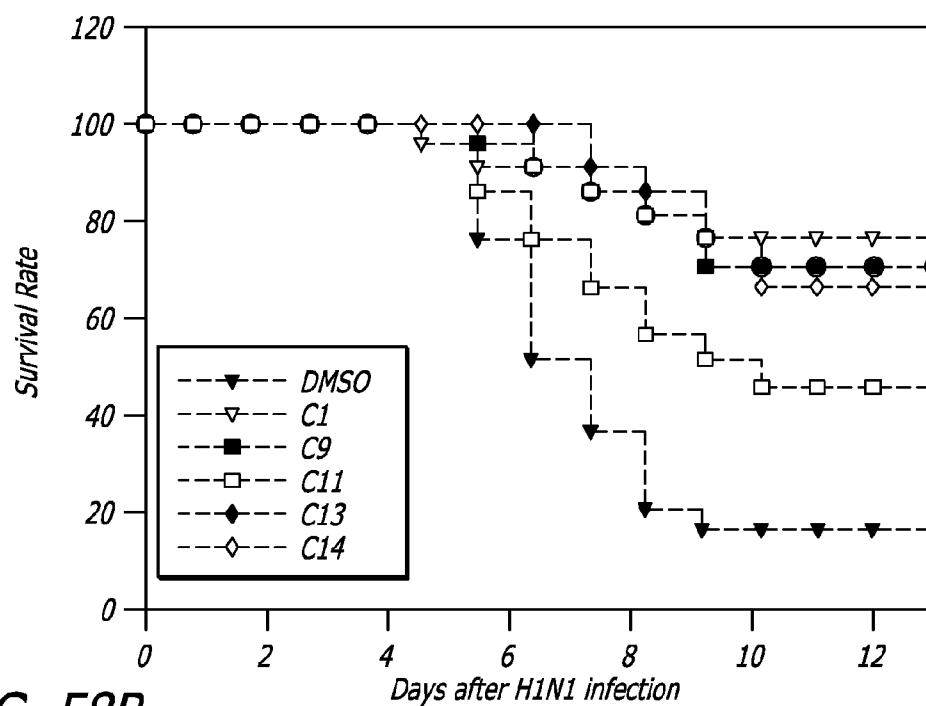


FIG. 58B

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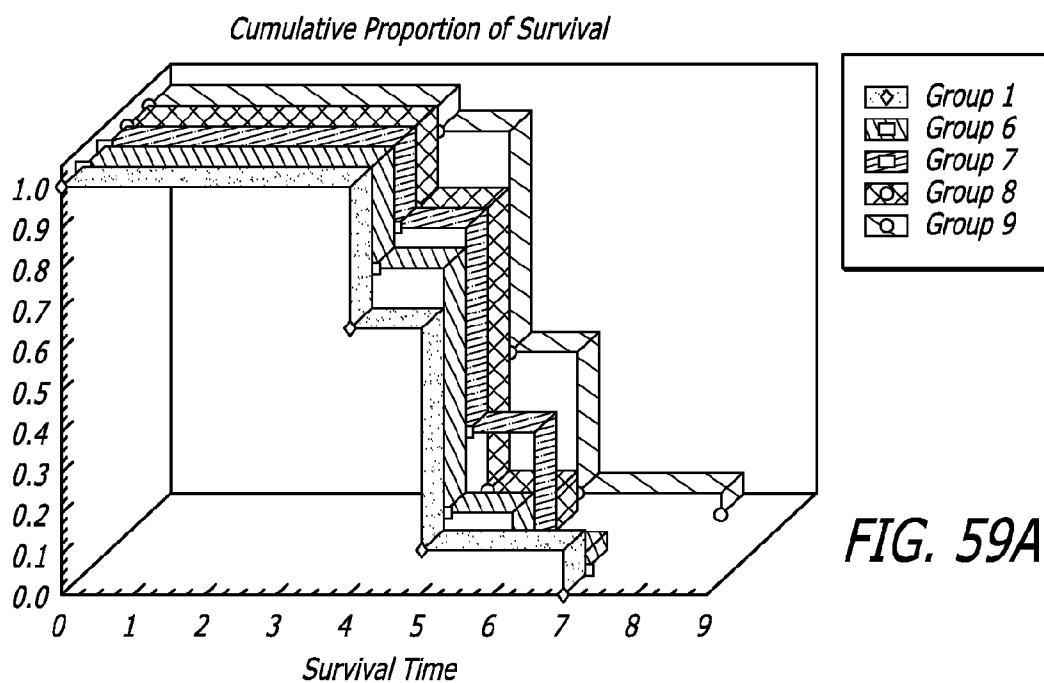


FIG. 59A

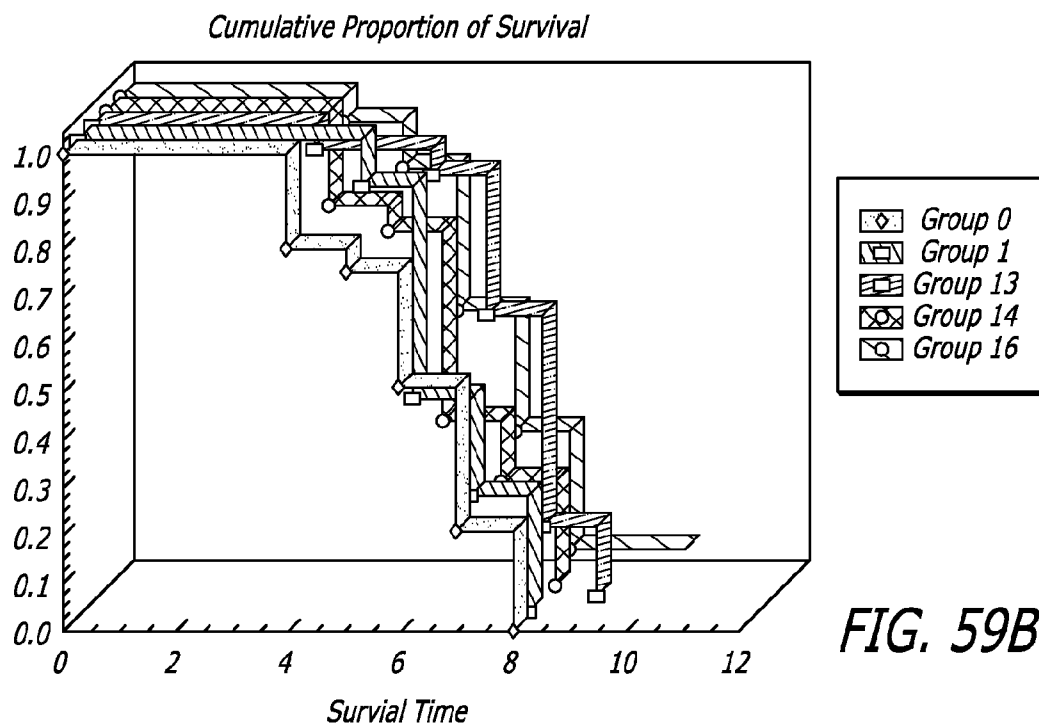


FIG. 59B

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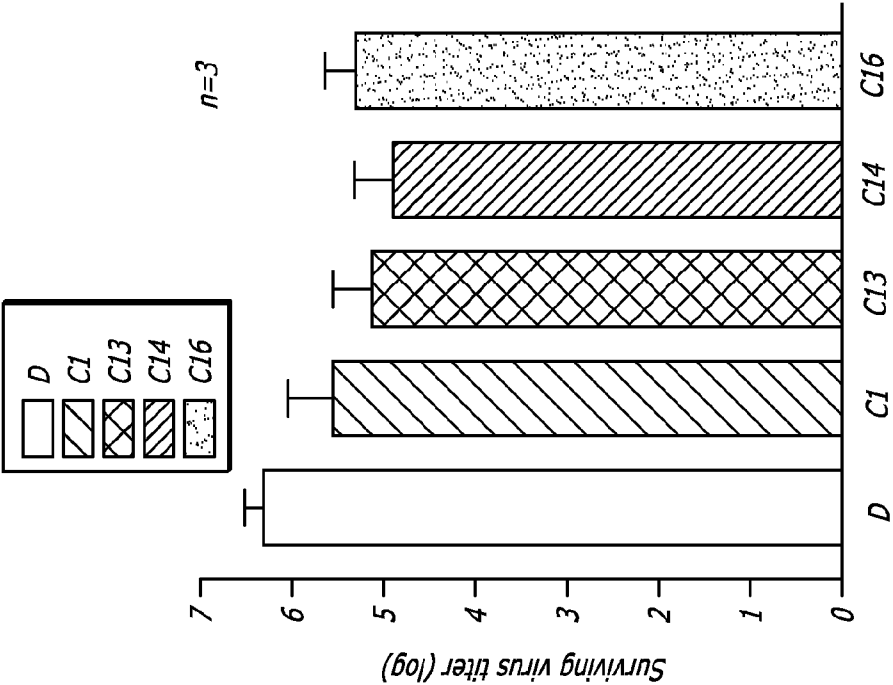


FIG. 60A

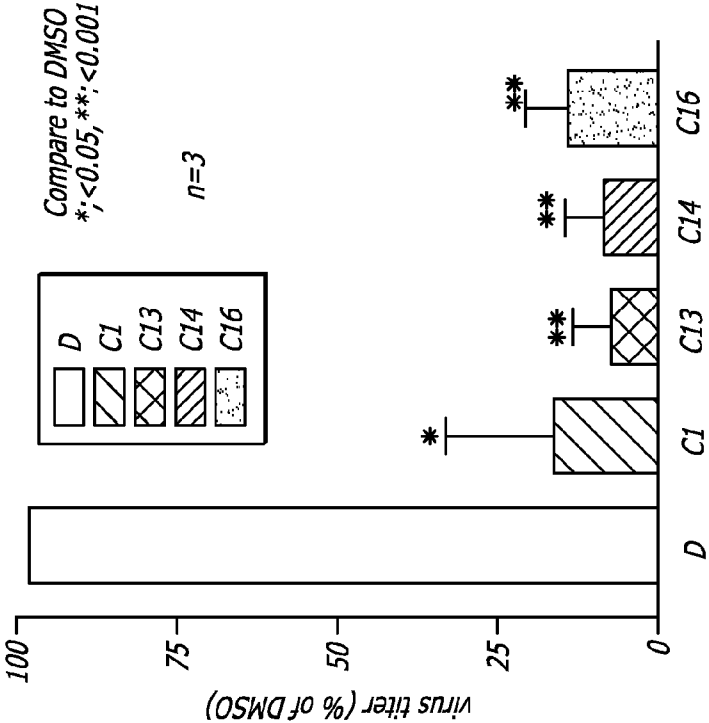
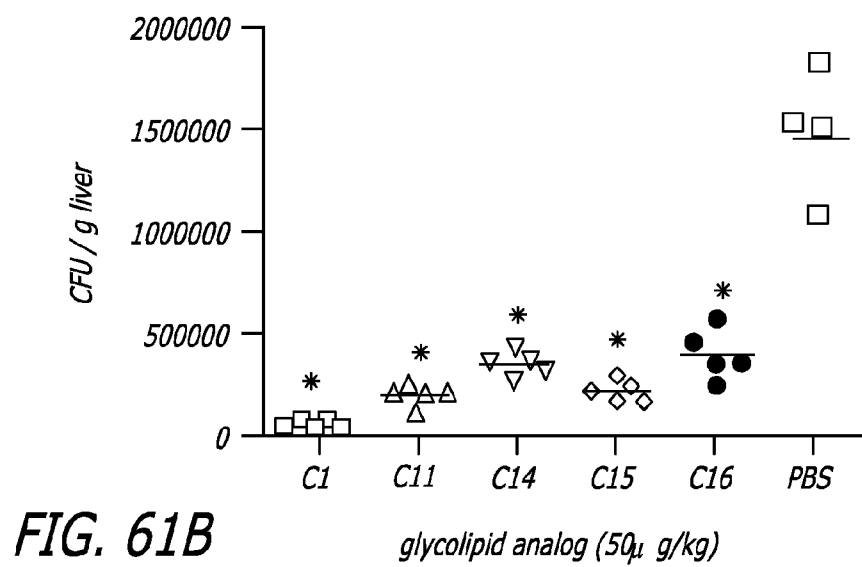
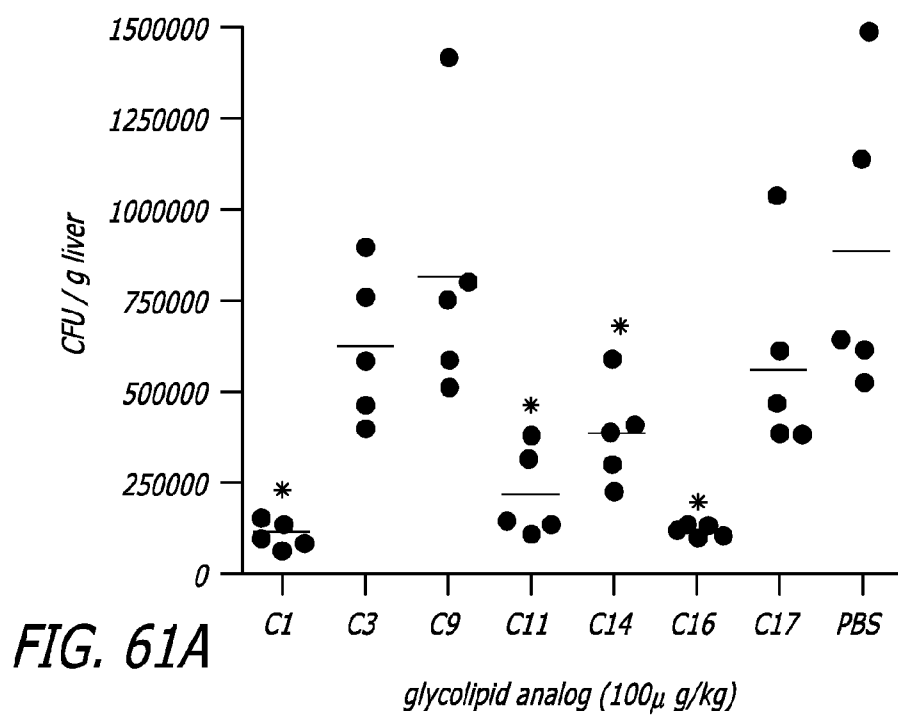
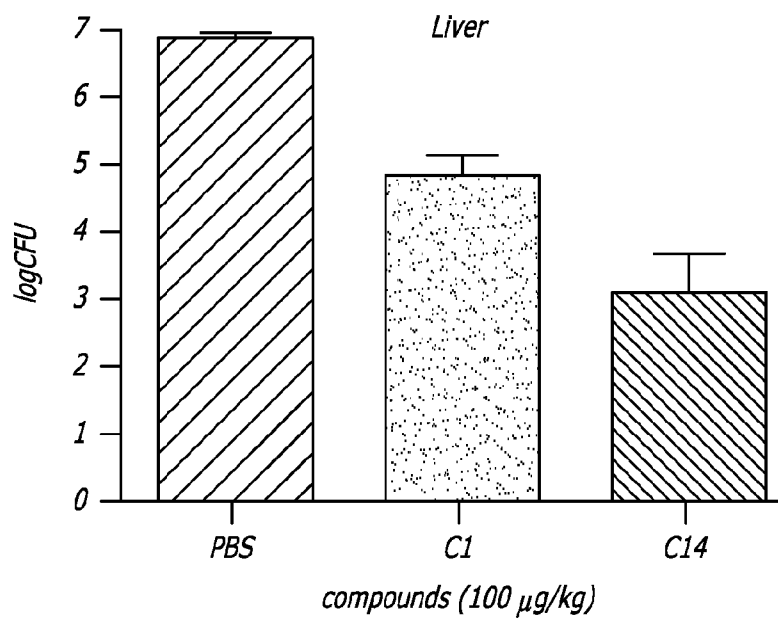
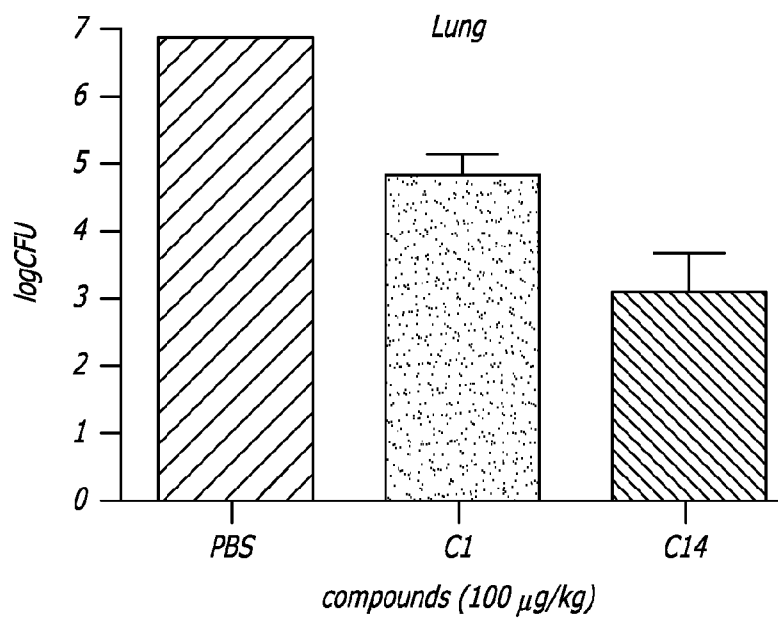


FIG. 60B

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FIG. 62A**FIG. 62B**

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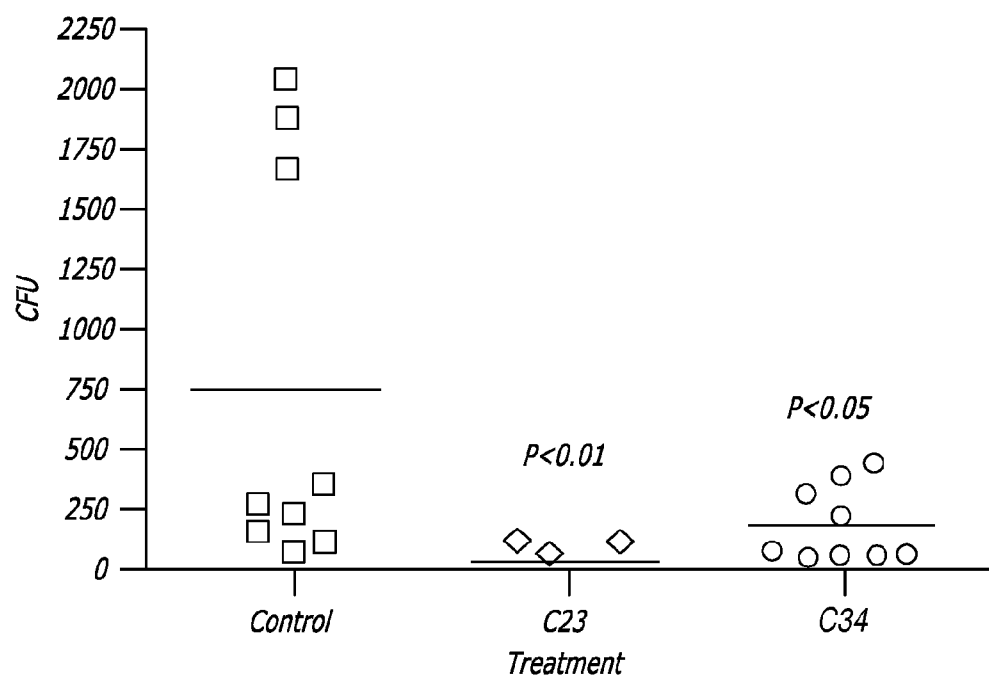
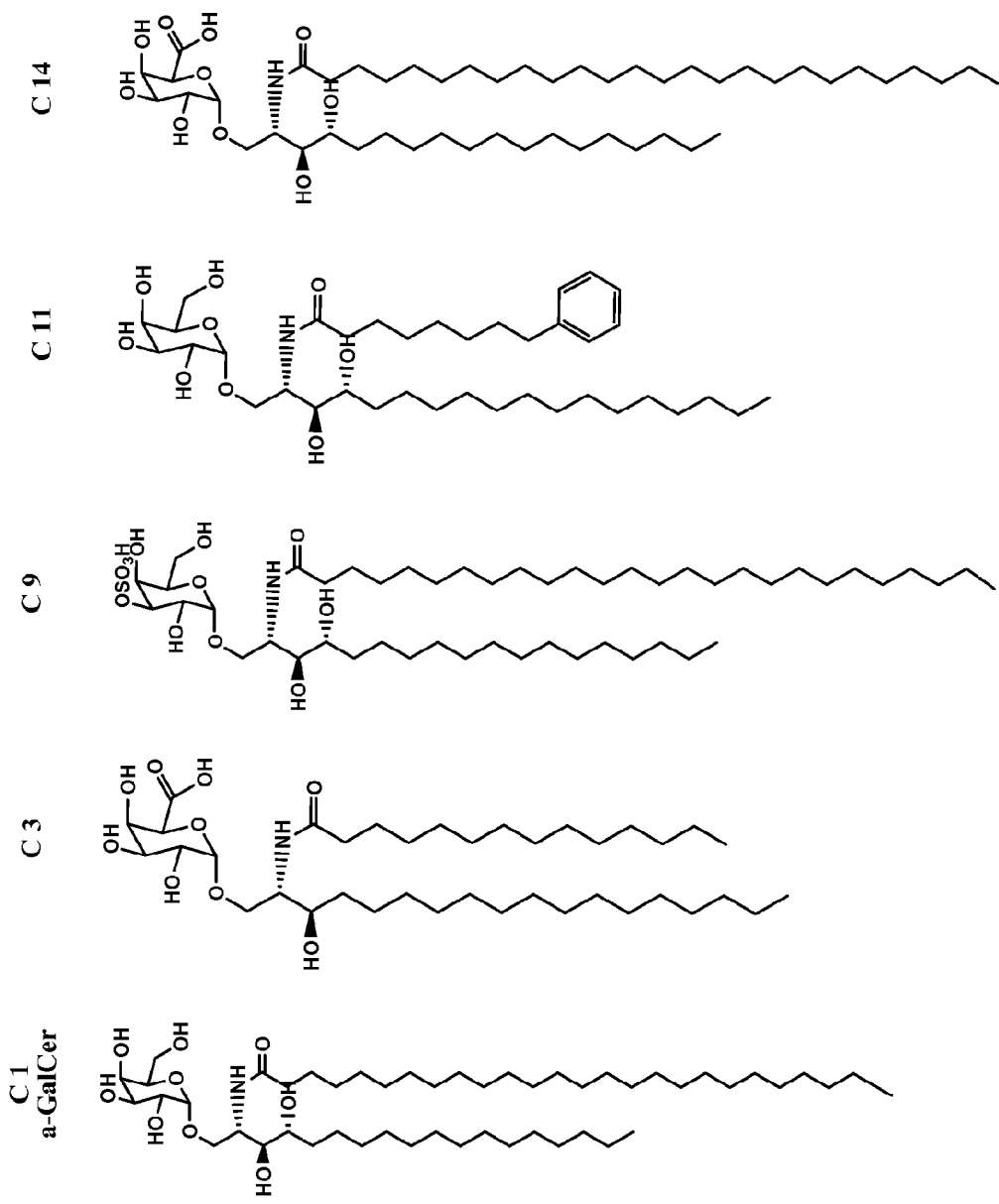


FIG. 63

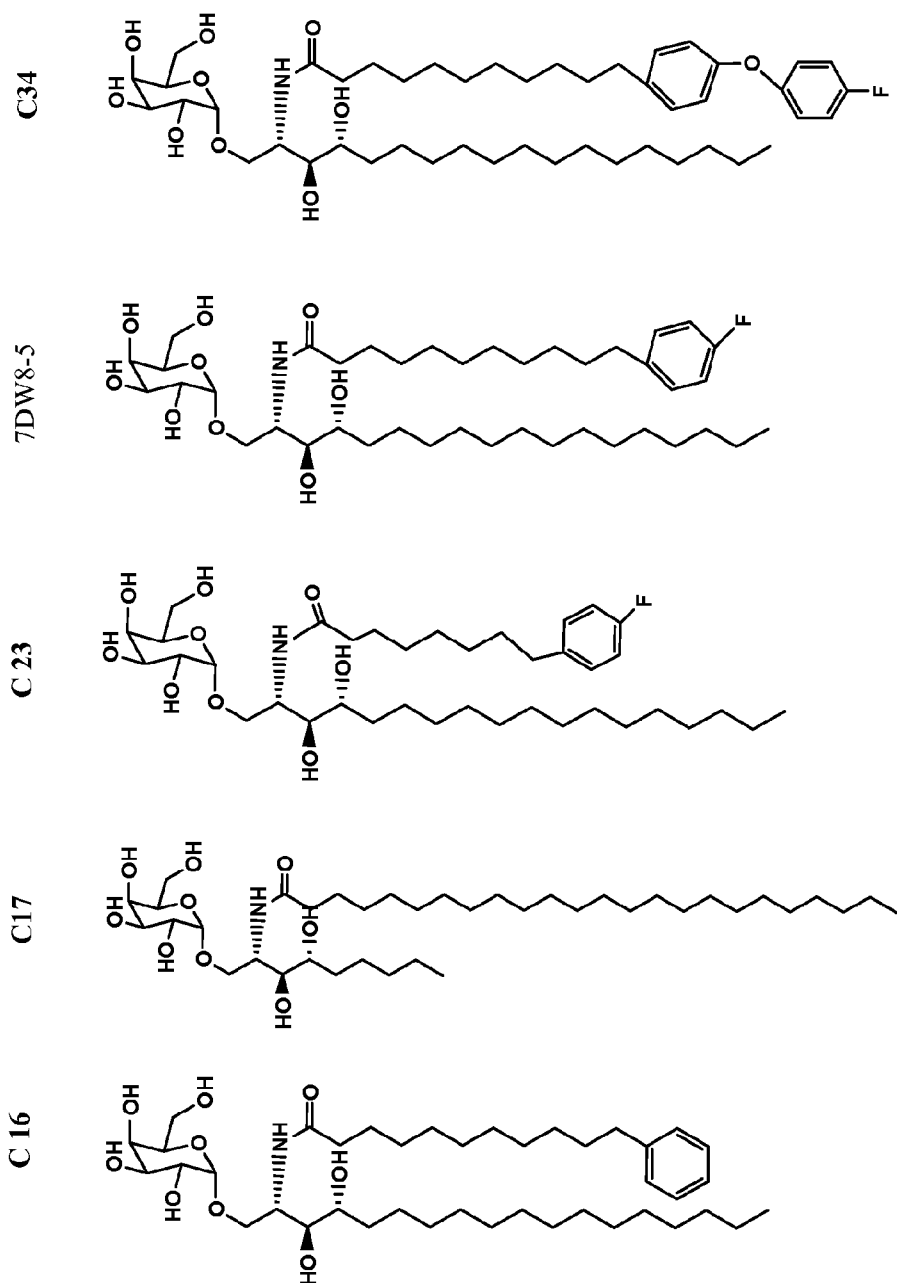
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Fig. 64A



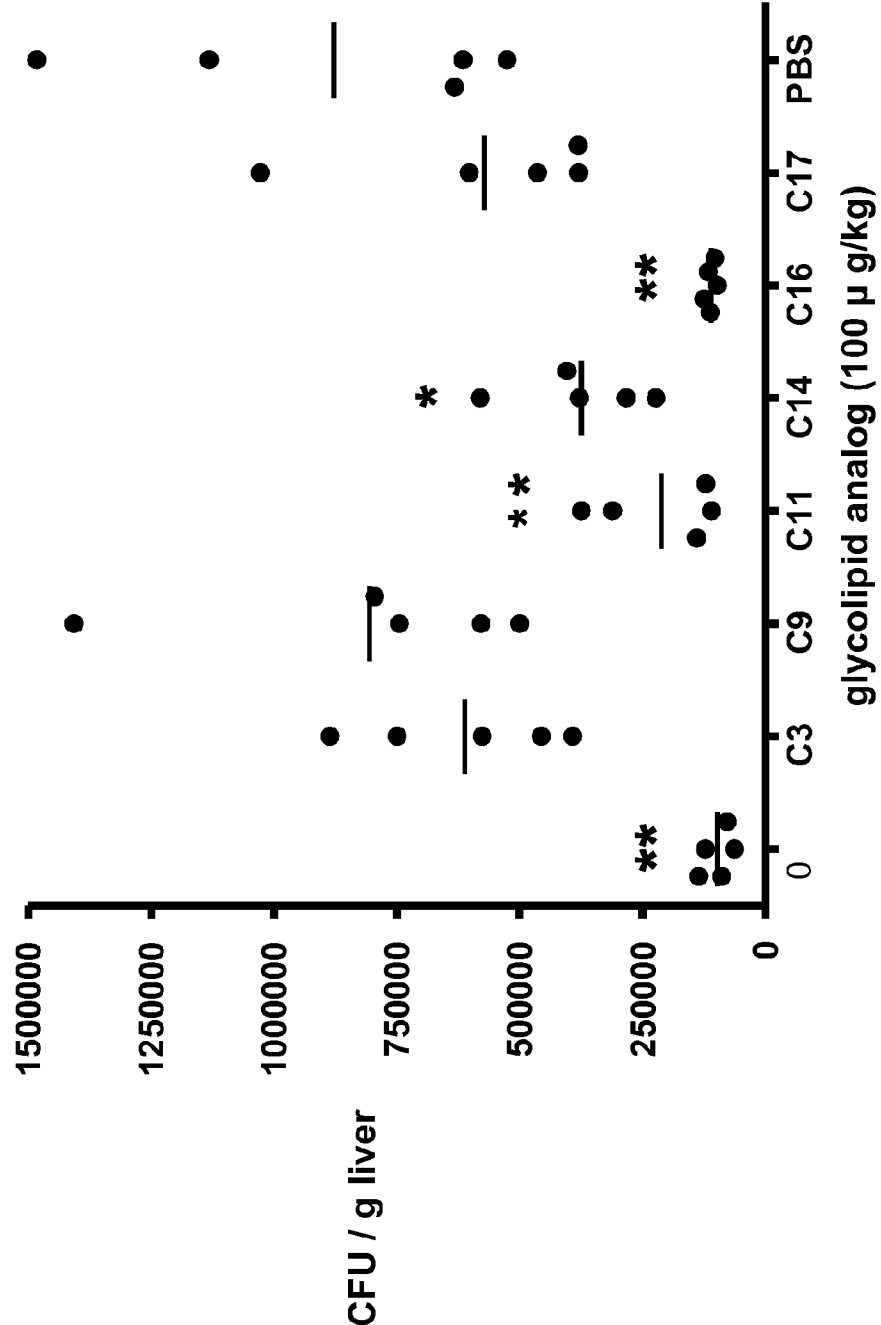
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Fig. 64B

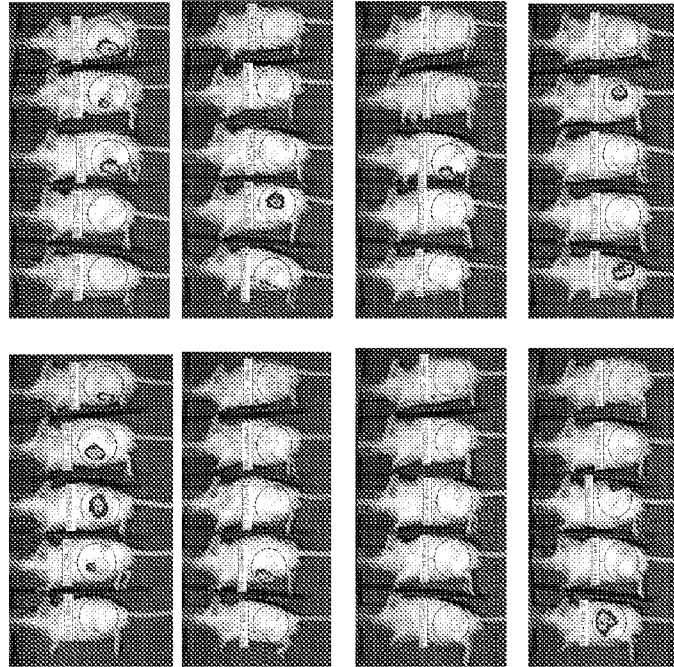
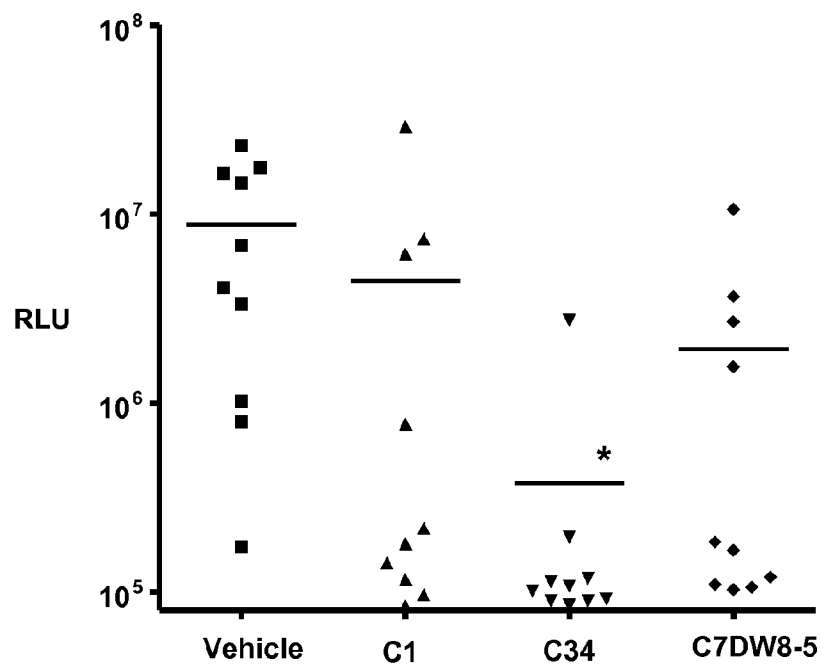


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Fig. 65

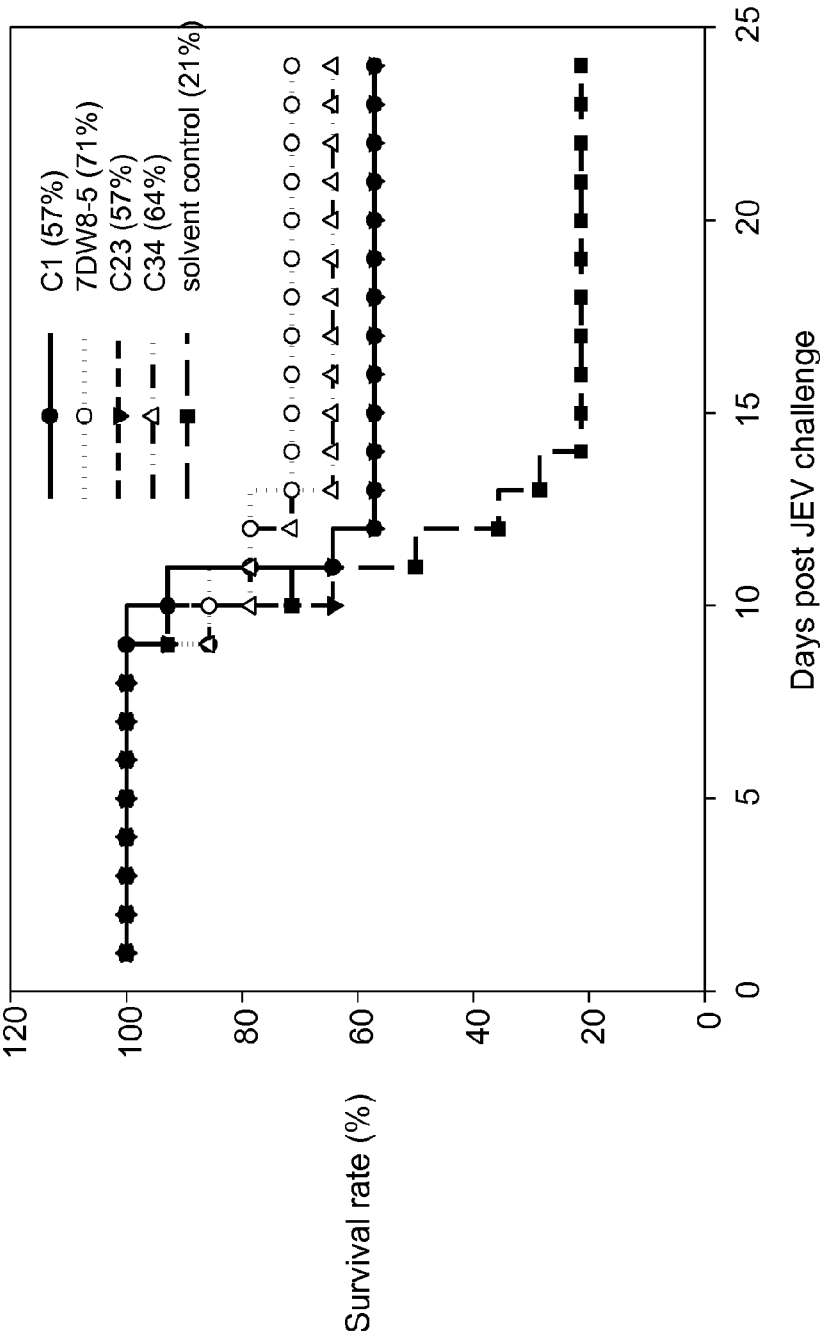


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Fig. 66A**Fig. 66B**

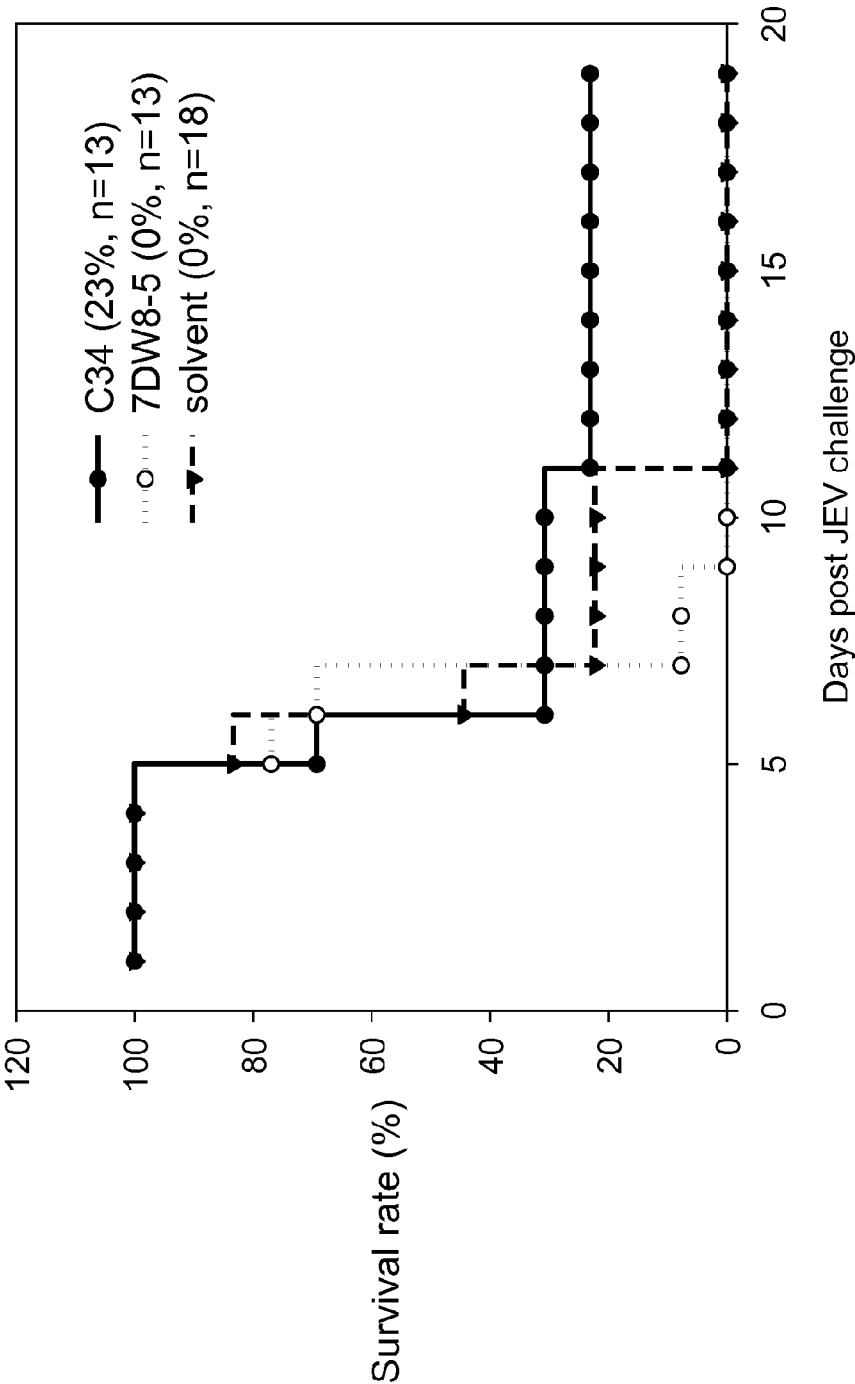
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Fig. 67



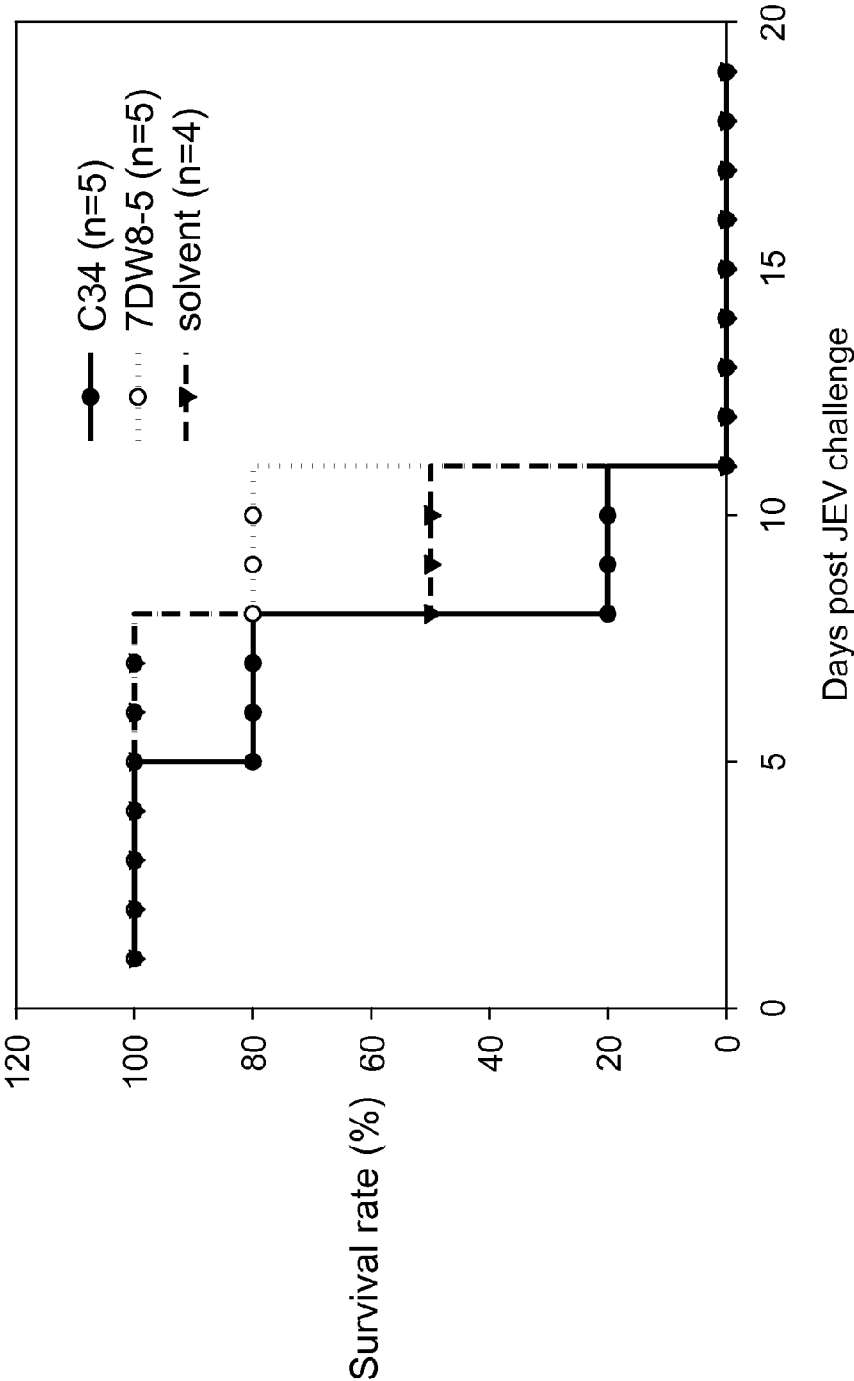
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Fig. 68A



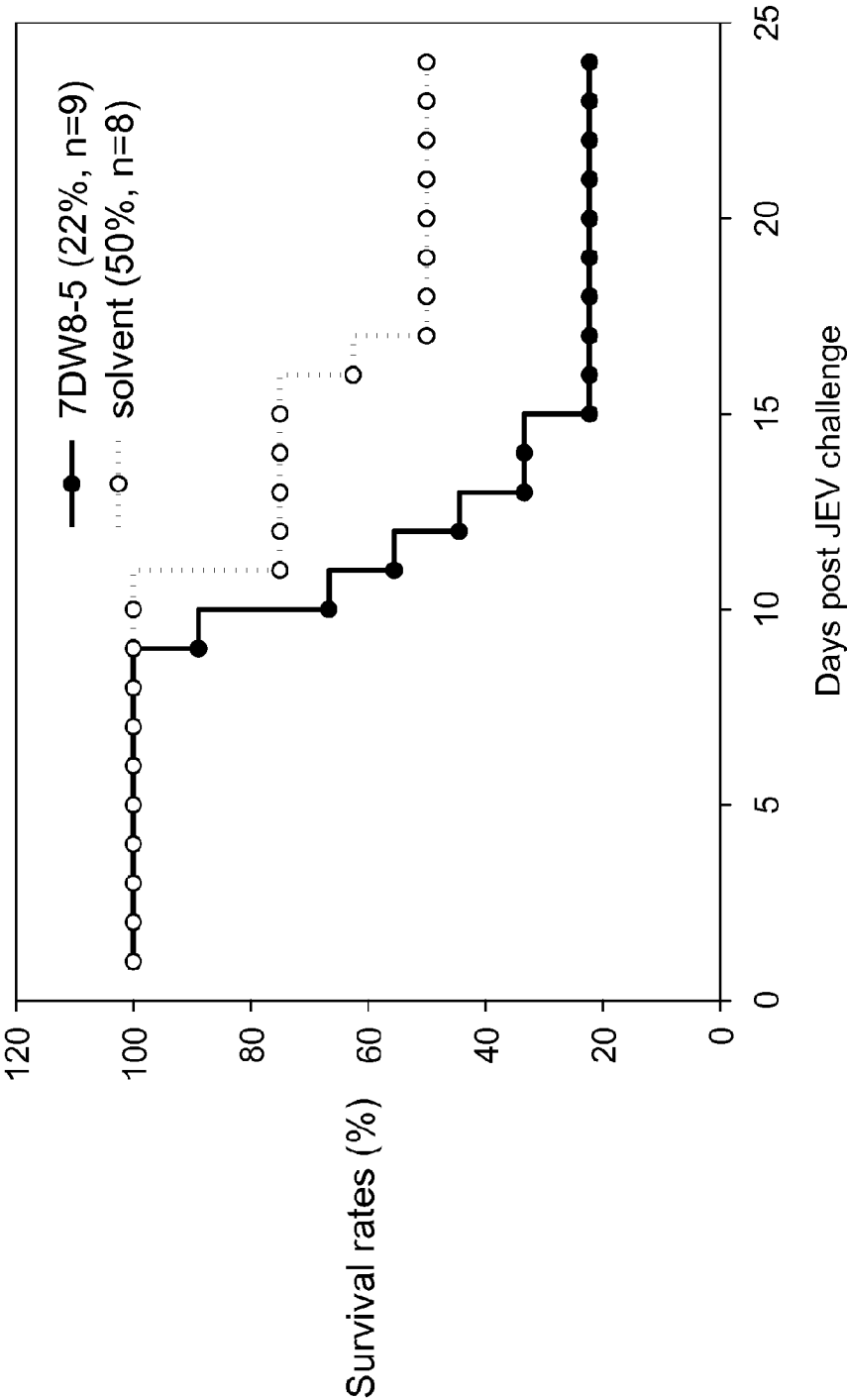
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Fig. 68B



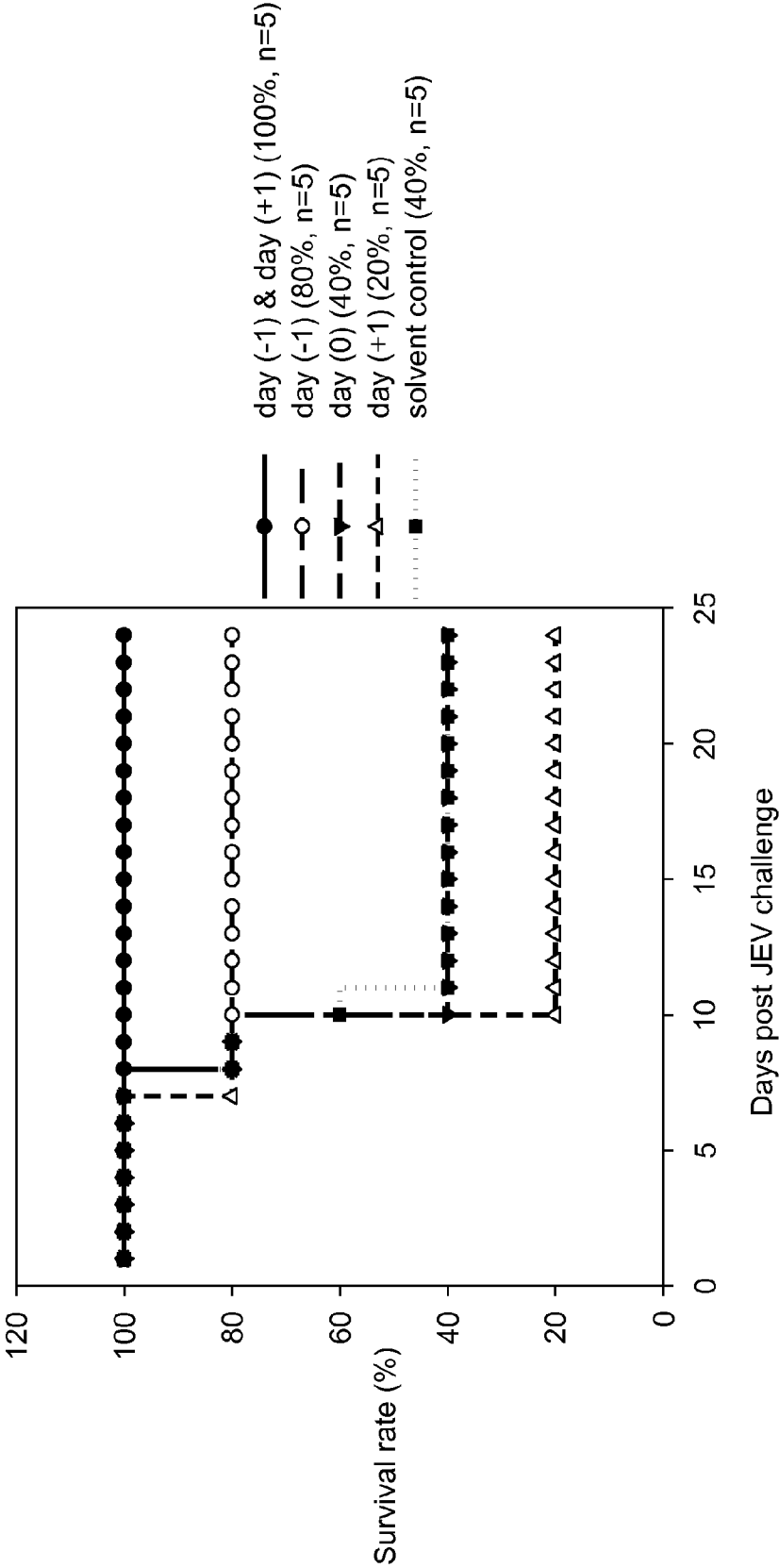
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Fig. 68C



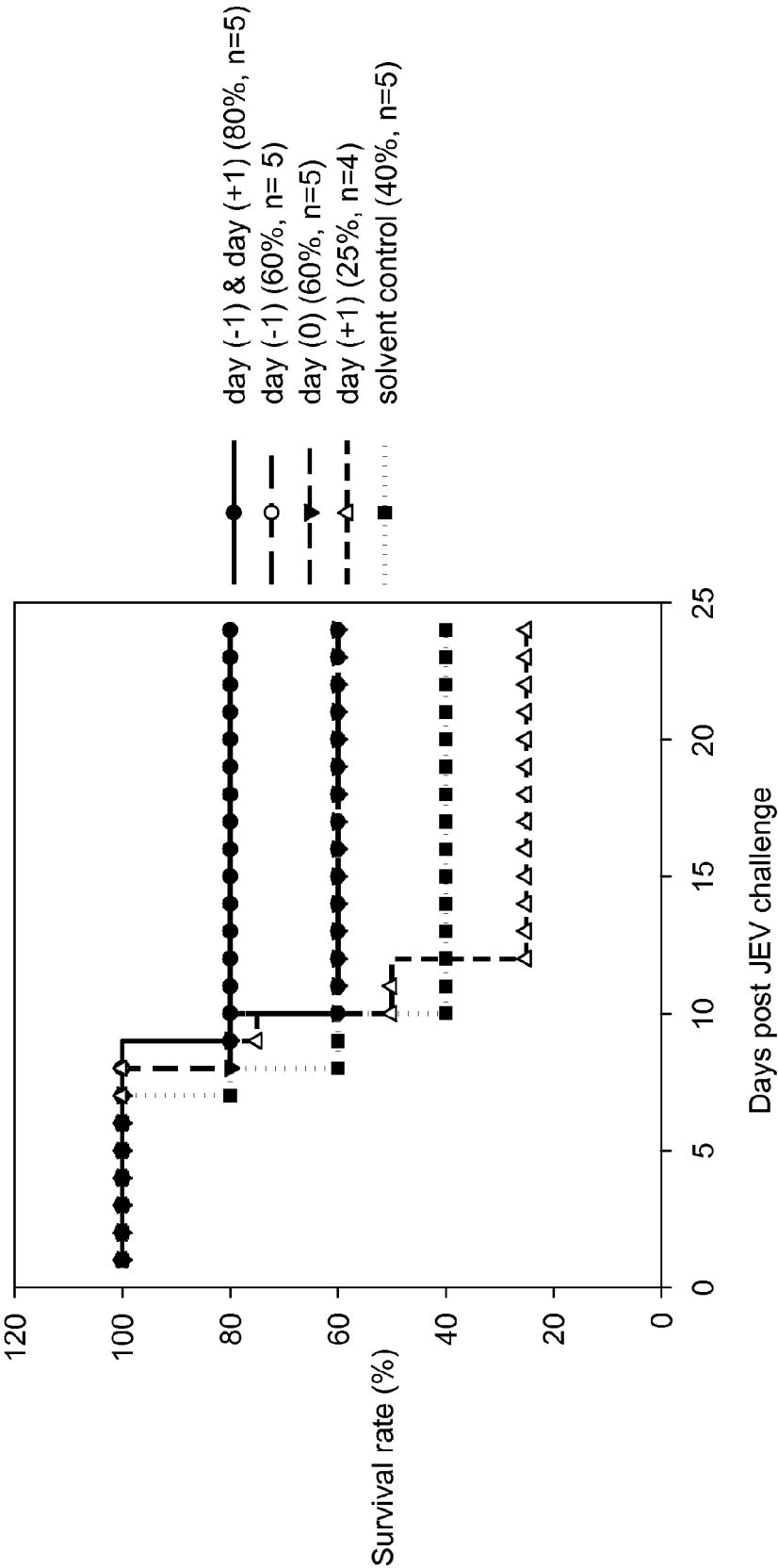
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Fig. 69A



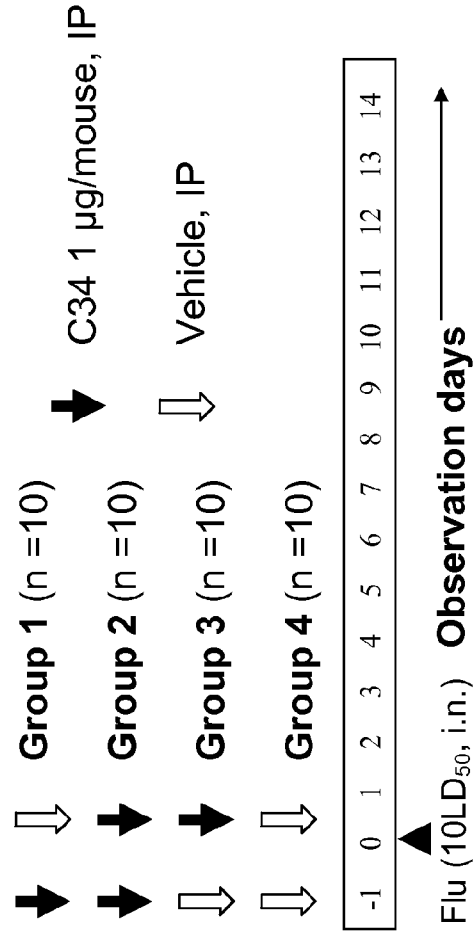
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Fig. 69B



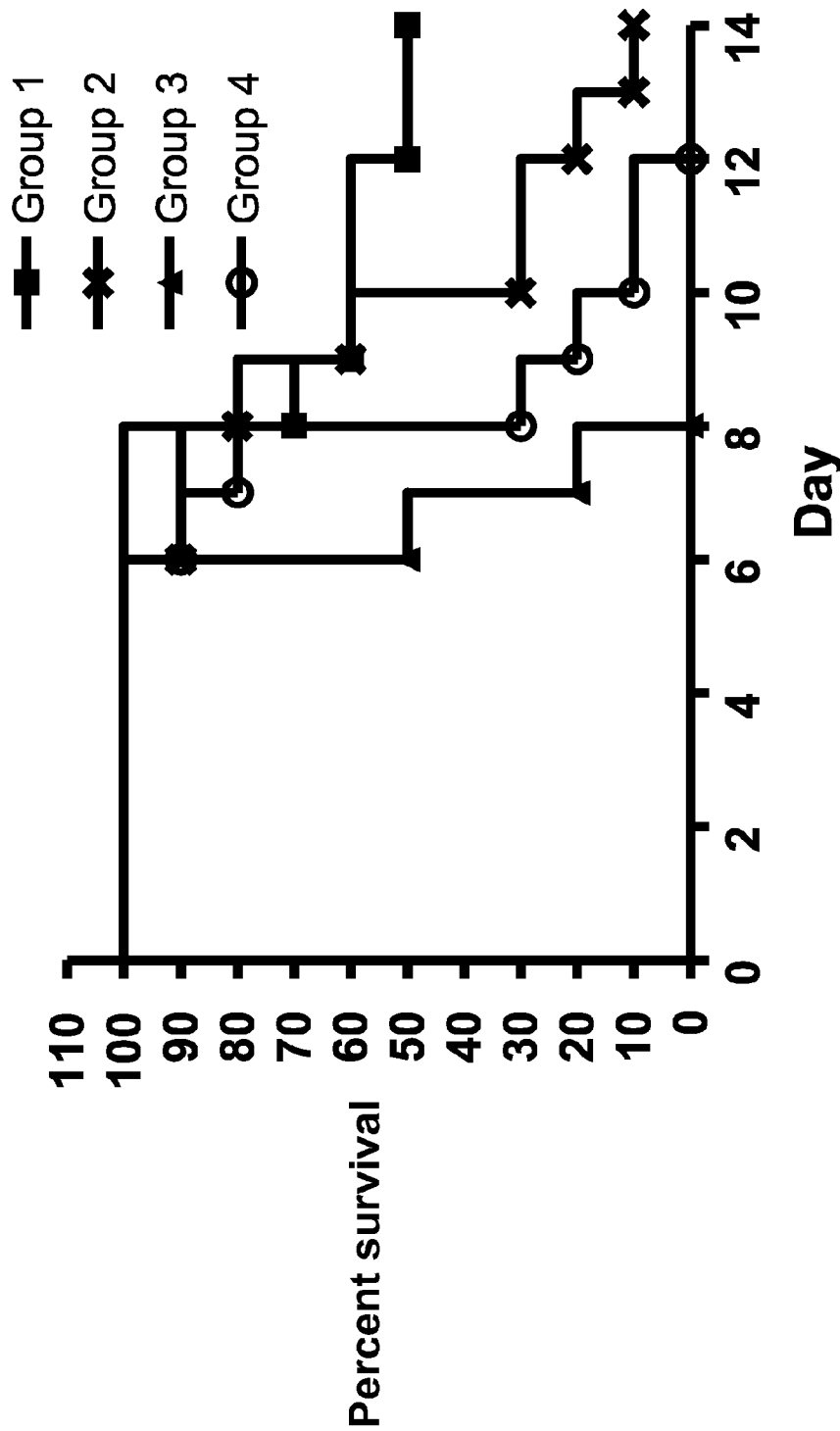
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Fig. 70A



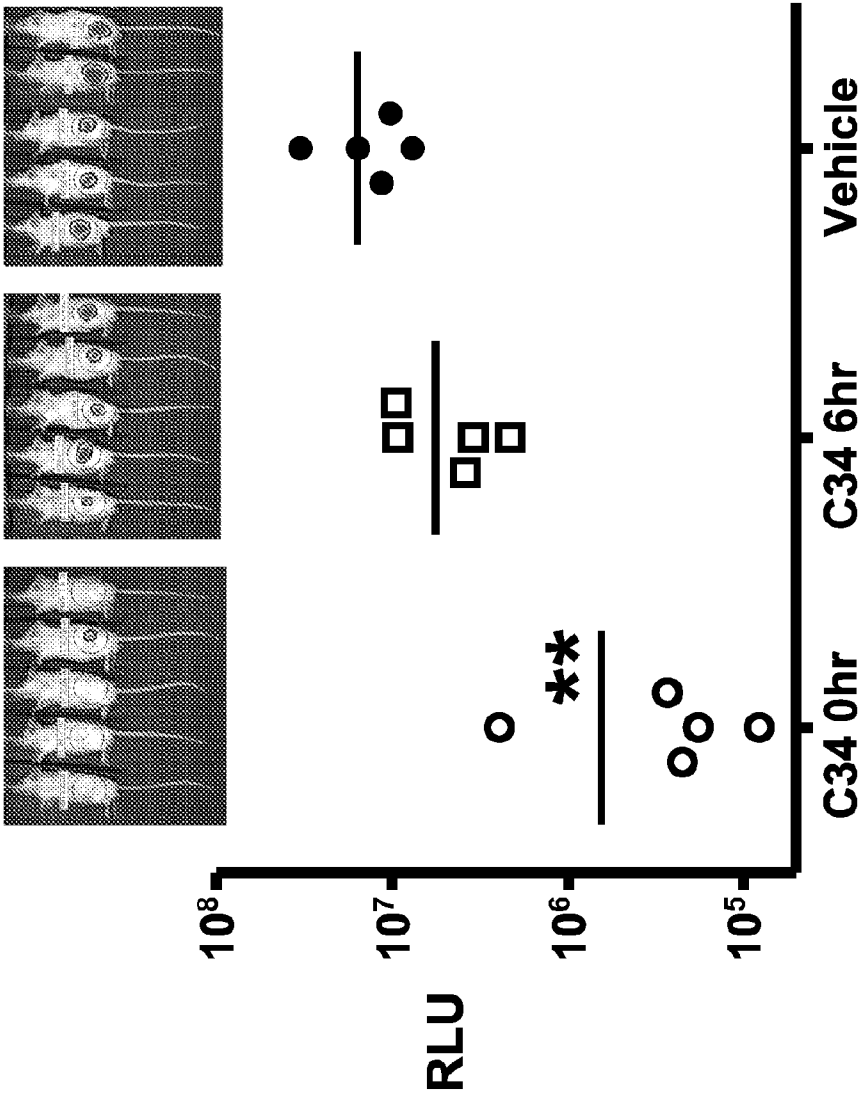
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Fig. 70B



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Fig. 71



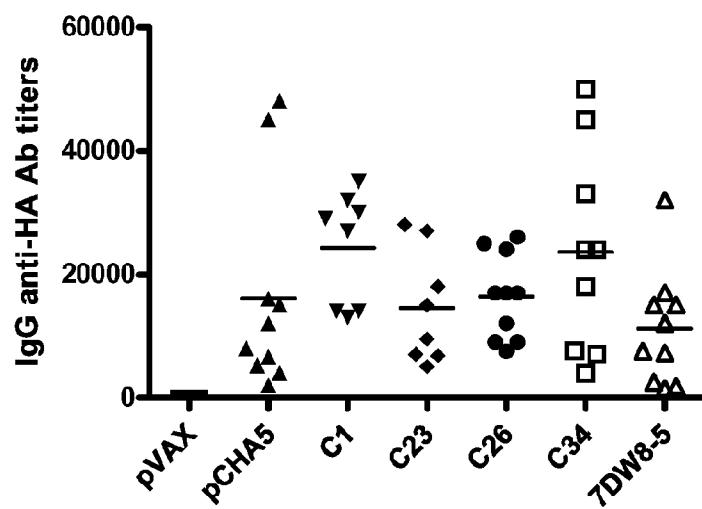
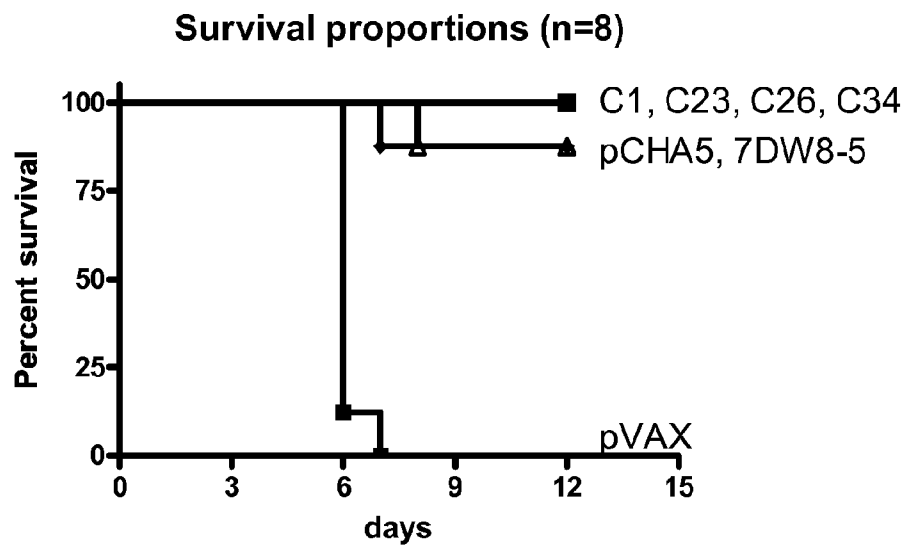
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Fig. 72Efficacy of selected glycolipids for suppressing *S. capsulate* infections

Treatment ^a	Vehicle	C1	7DW8-5	C23	C34
n =	7	7	7	7	7
CFU/g liver ^b	2.1E + 07	3.8E + 06	1.8E + 06	3.5E + 06	1.4E + 06
P value		<0.001	<0.001	<0.001	<0.001

^aC57Bl mice were IP injected with glycolipids at 50 µg/mL at 4 hr post infection.^bMean values of CFU/g liver determined at 24 hour post-infection

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A**FIG. 73A****B****FIG. 73B**

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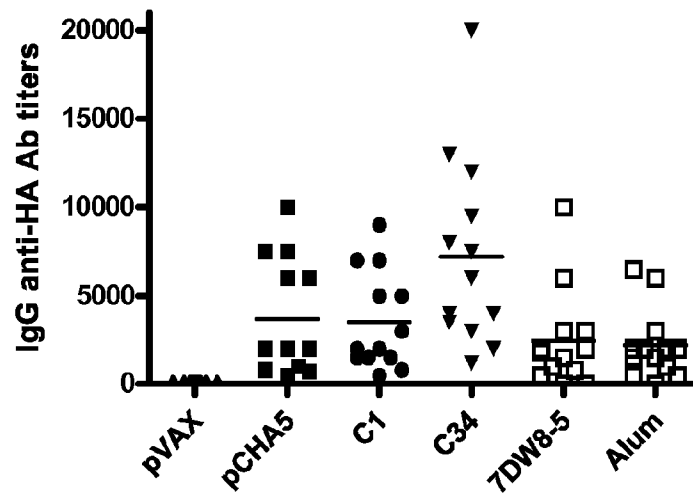


FIG. 74A

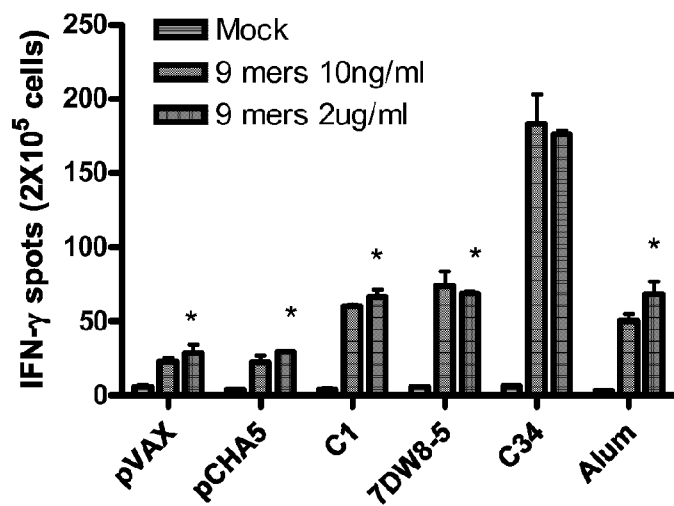


FIG. 74B

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Survival proportions (n=10)

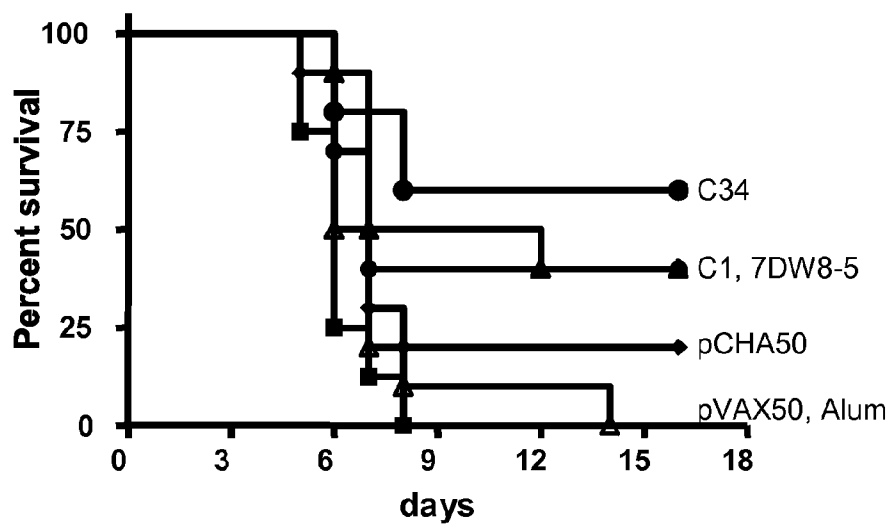


FIG. 74C

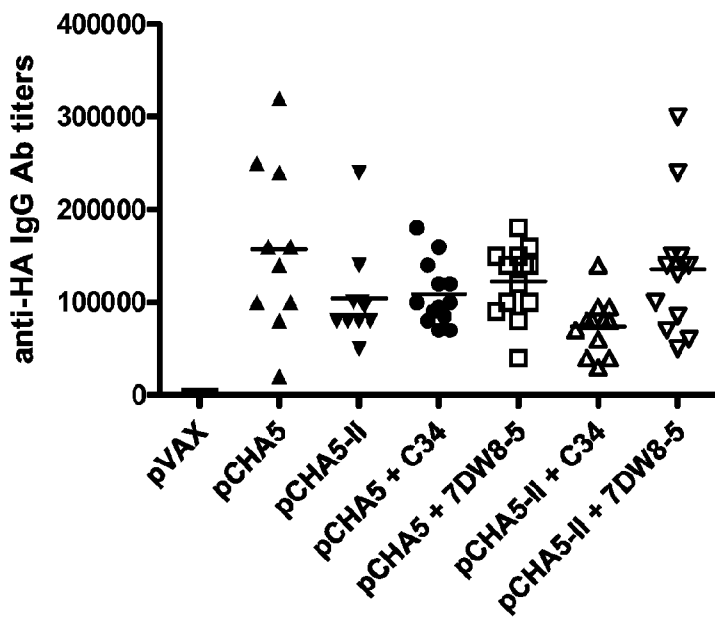
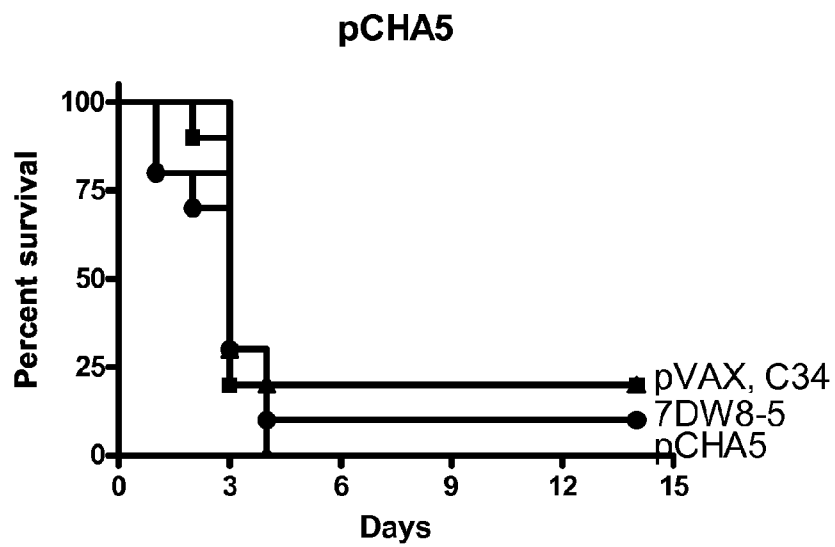
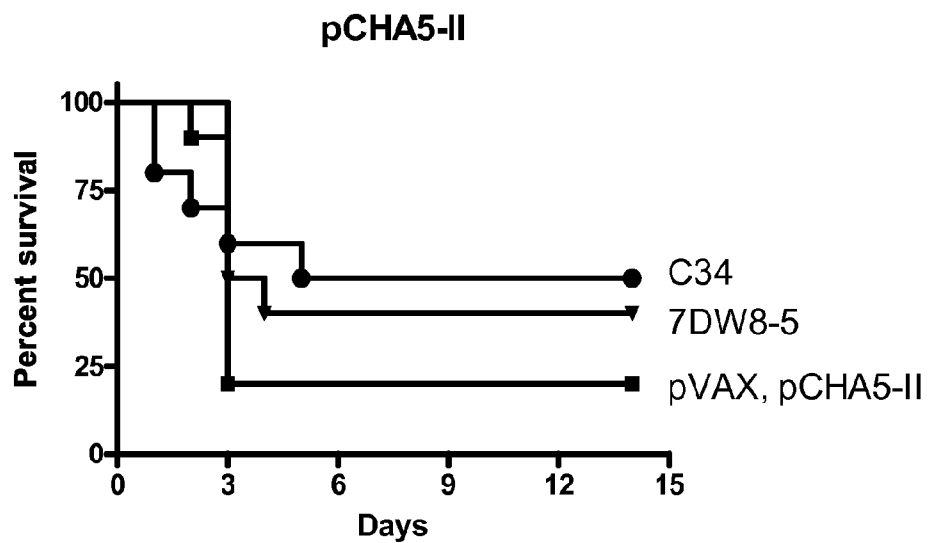


FIG. 75A

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**FIG. 75B****FIG. 75C**

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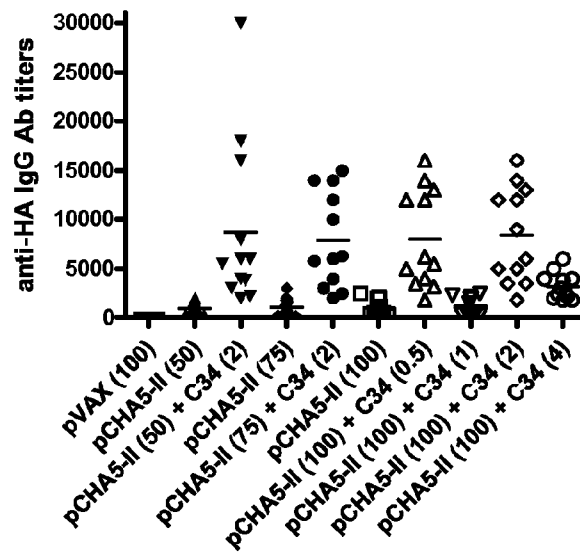


FIG. 76A

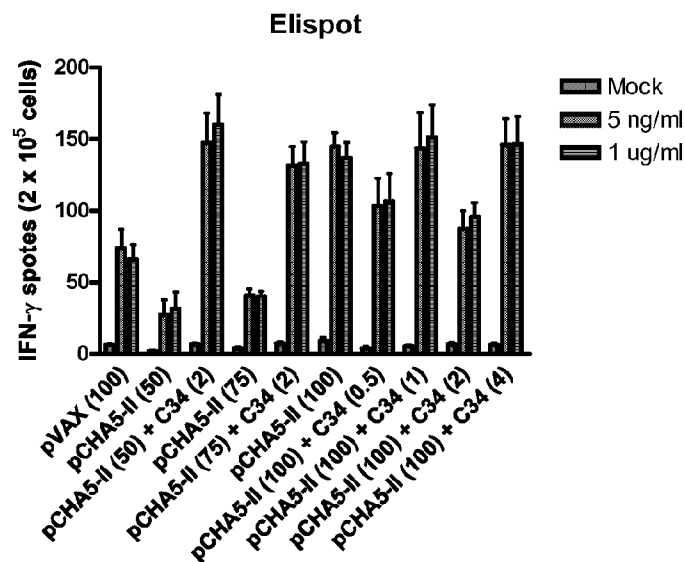
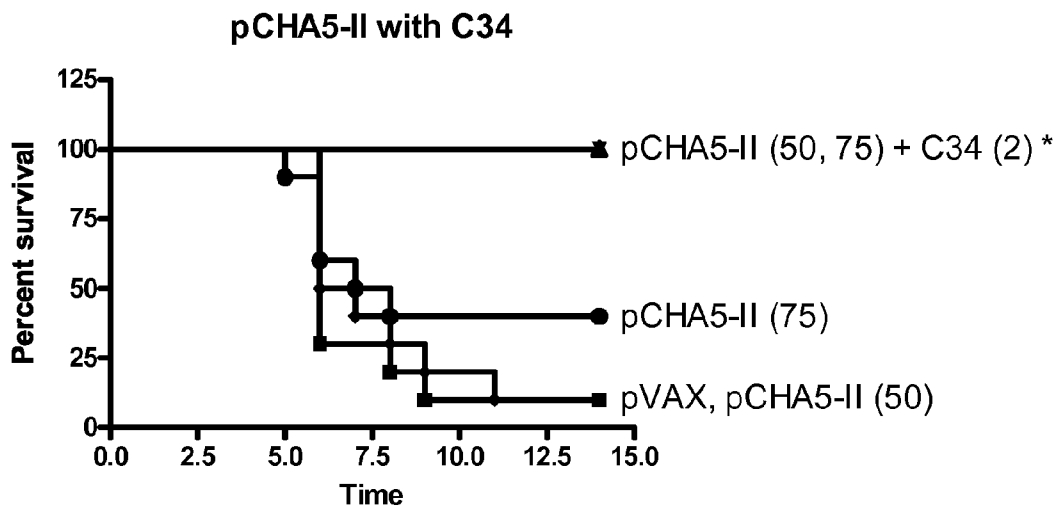
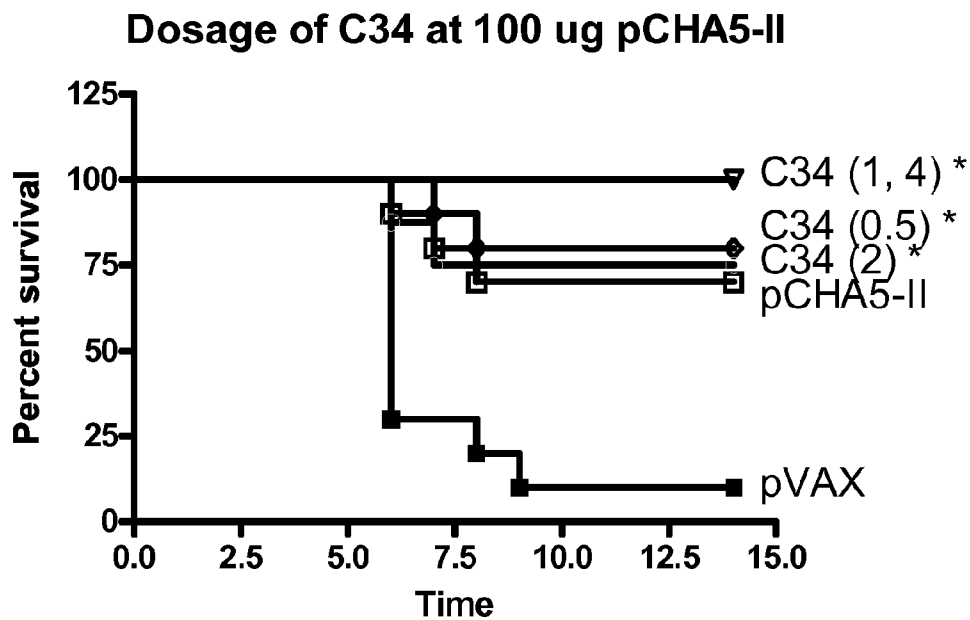


FIG. 76B

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**FIG. 76C****FIG. 76D**

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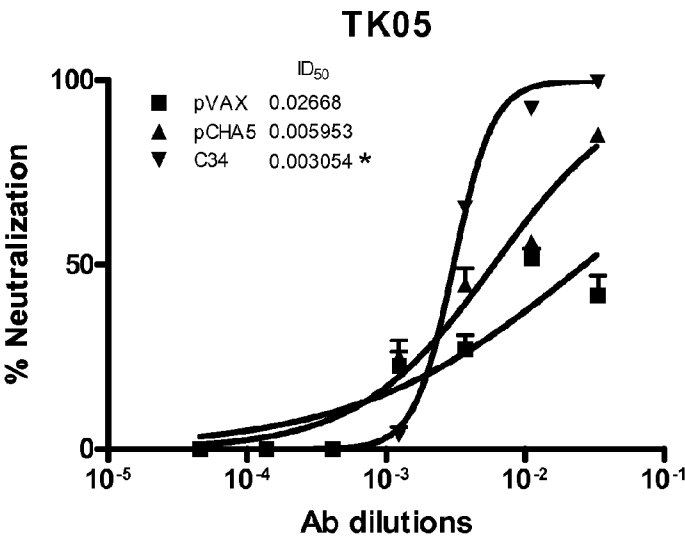


FIG. 77A

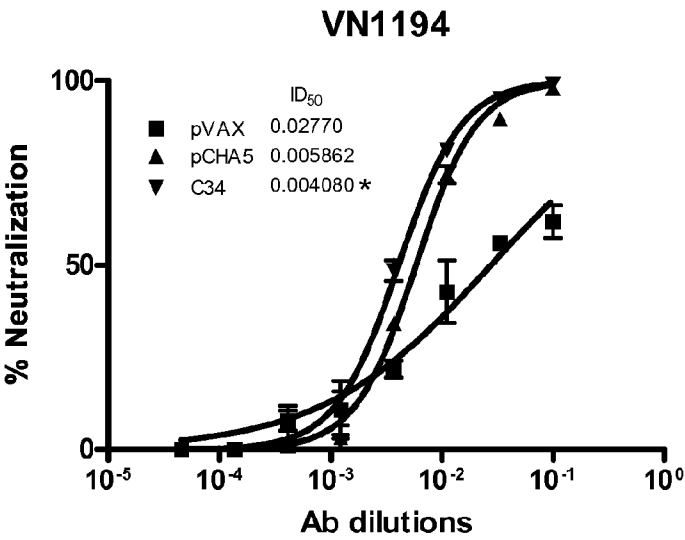


FIG. 77B

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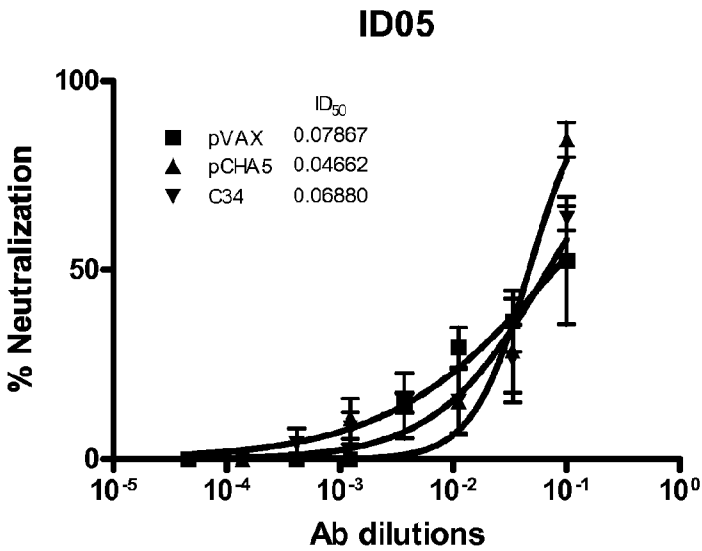


FIG. 77C

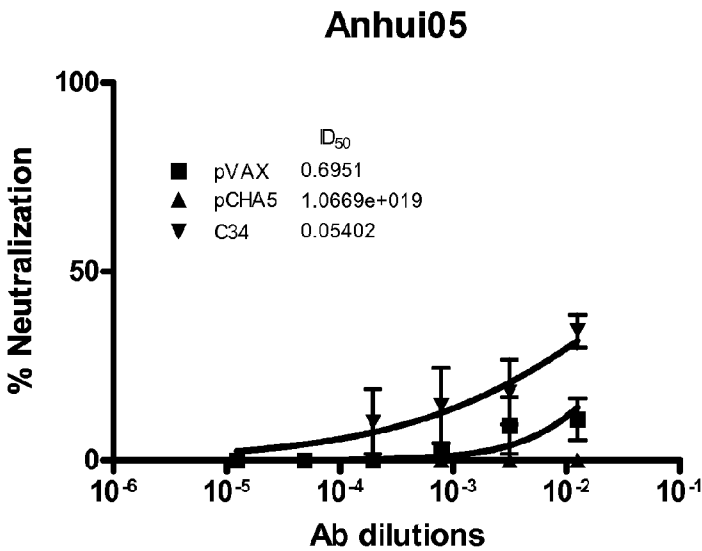


FIG. 77D

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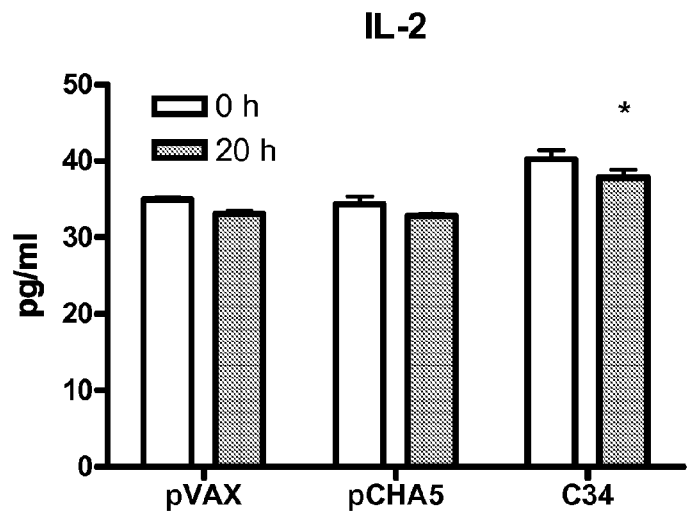


FIG. 78A

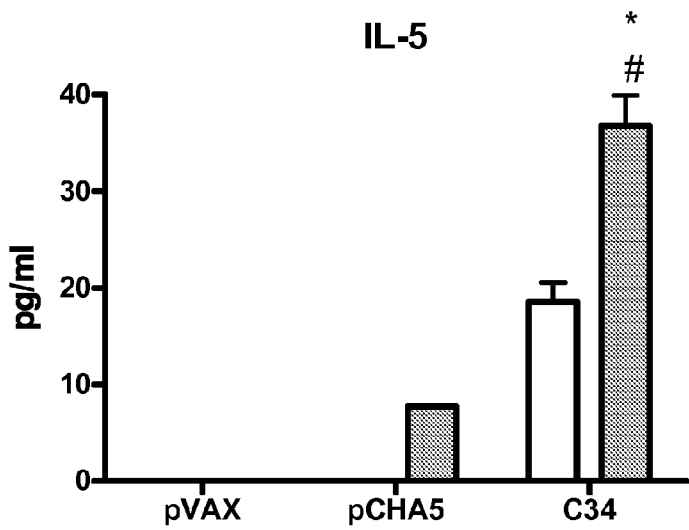
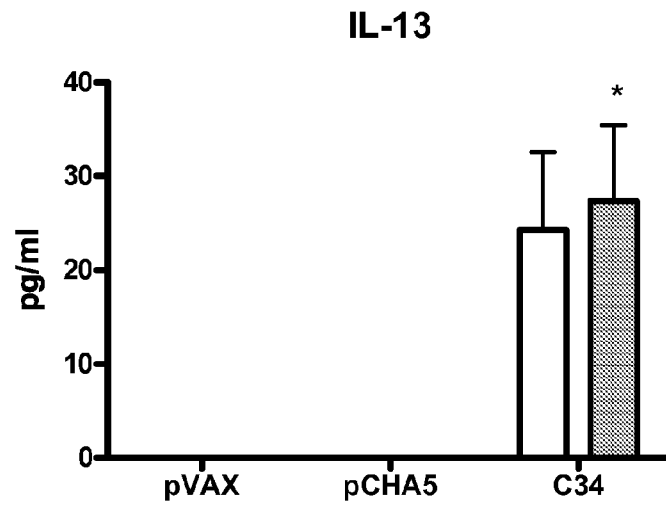
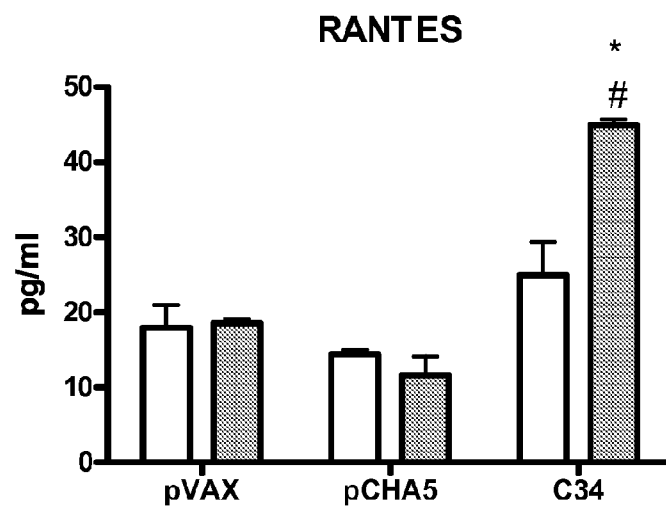
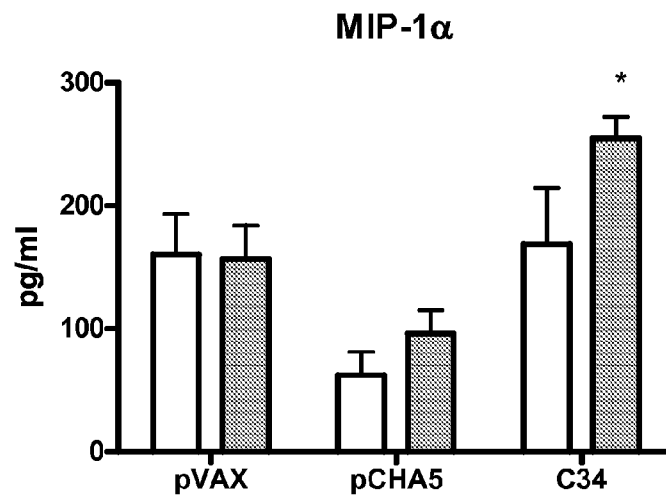
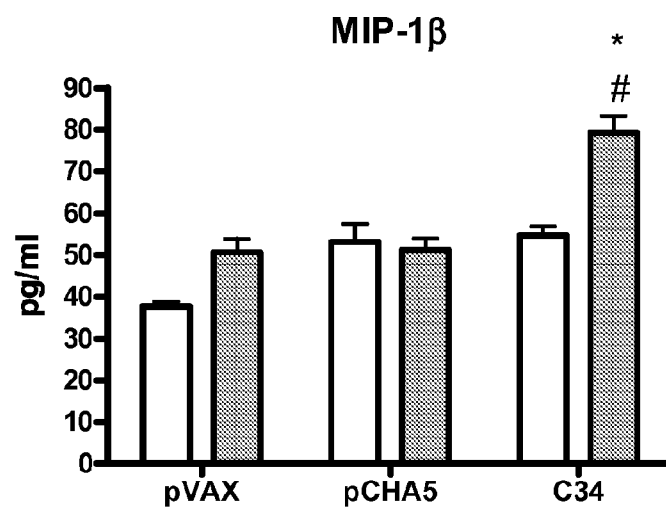


FIG. 78B

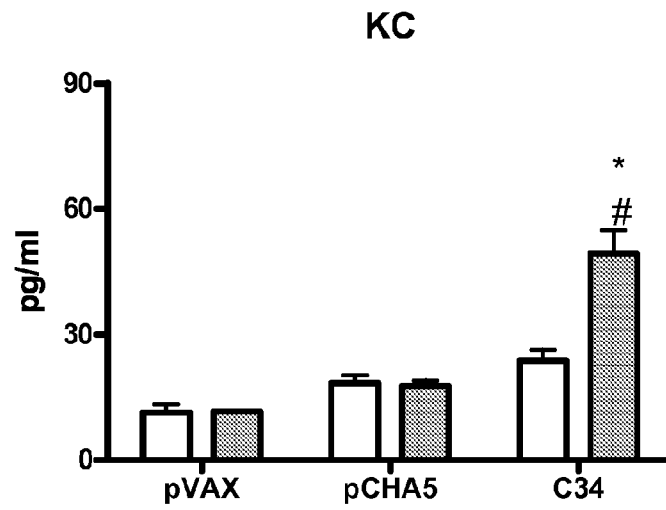
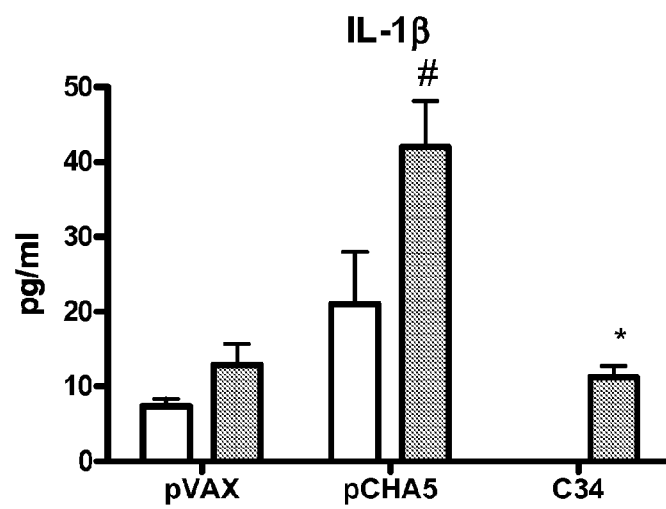
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**FIG. 78C****FIG. 78D**

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**FIG. 78E****FIG. 78F**

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**FIG. 78G****FIG. 78H**

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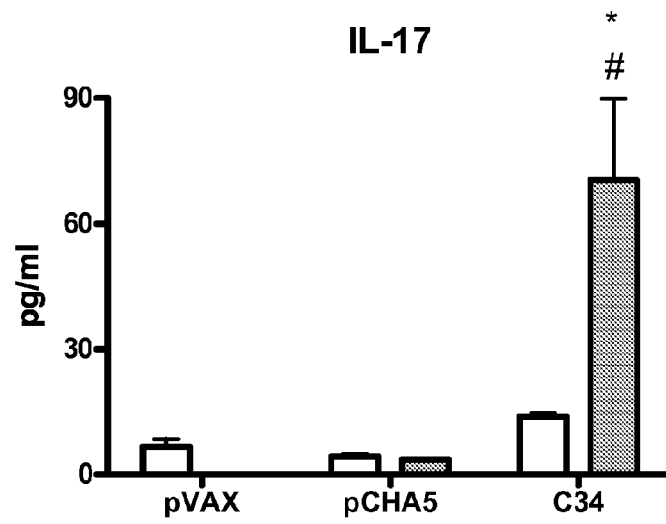


FIG. 78I

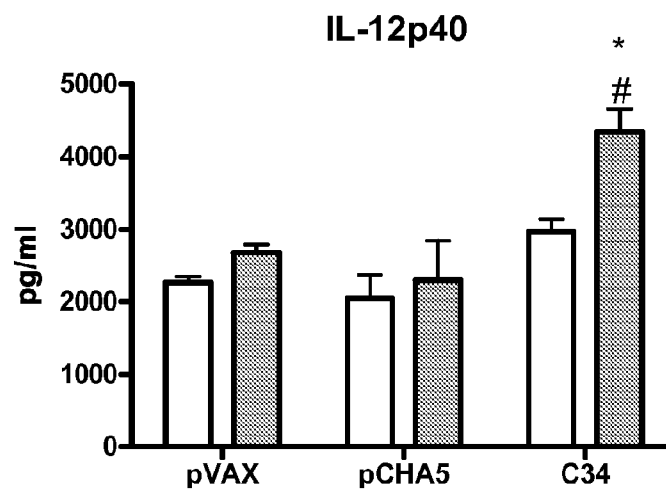
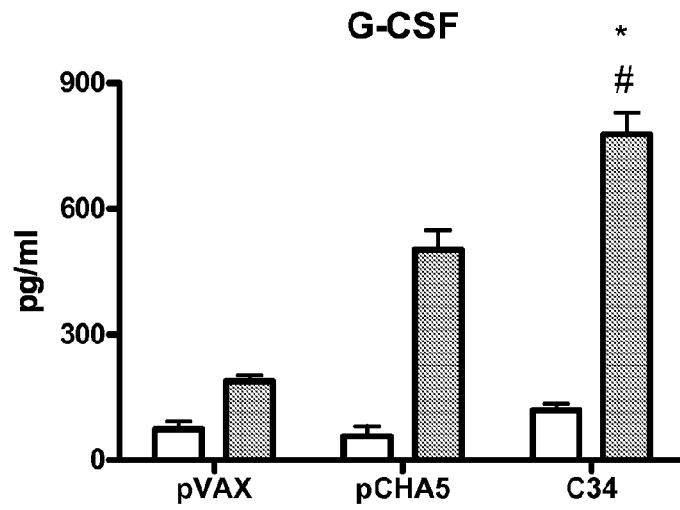
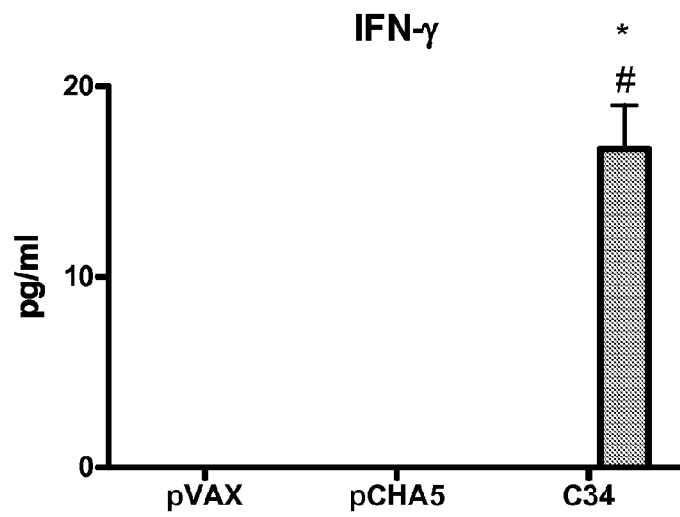


FIG. 78J

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**FIG. 78K****FIG. 78L**

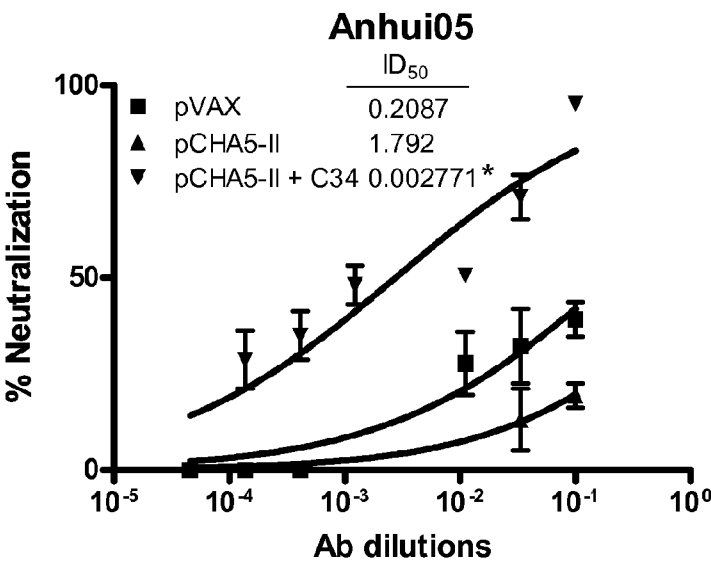


FIG 79A

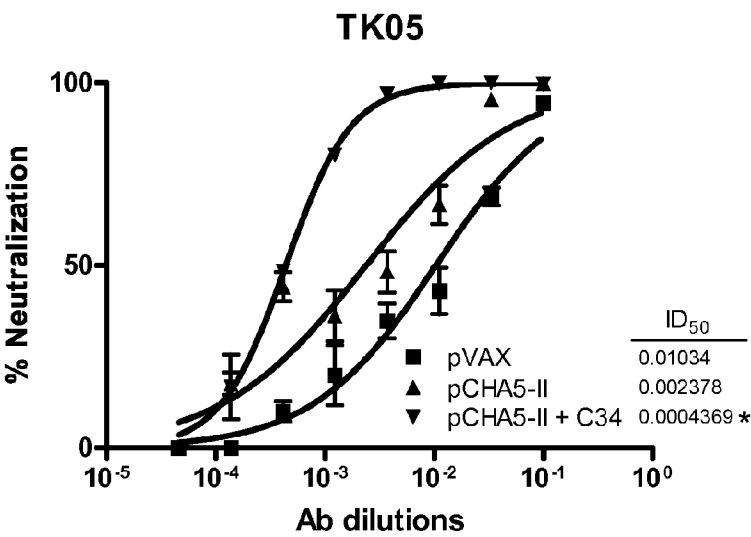


FIG. 79B

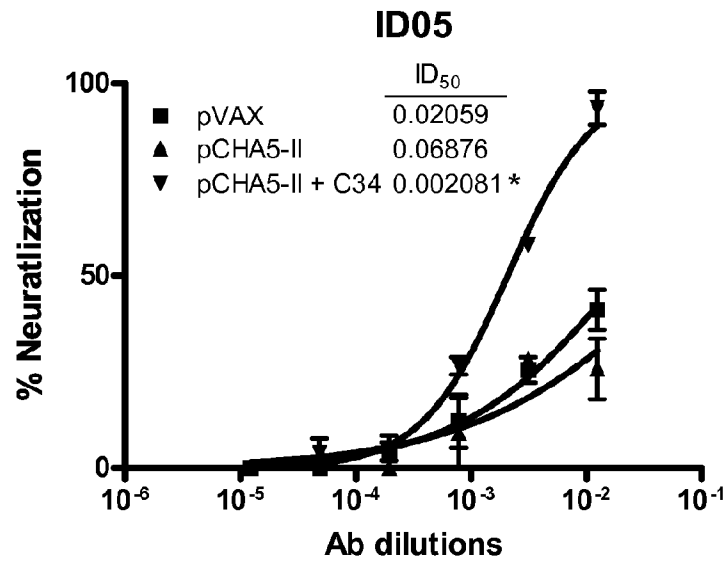


FIG. 79C

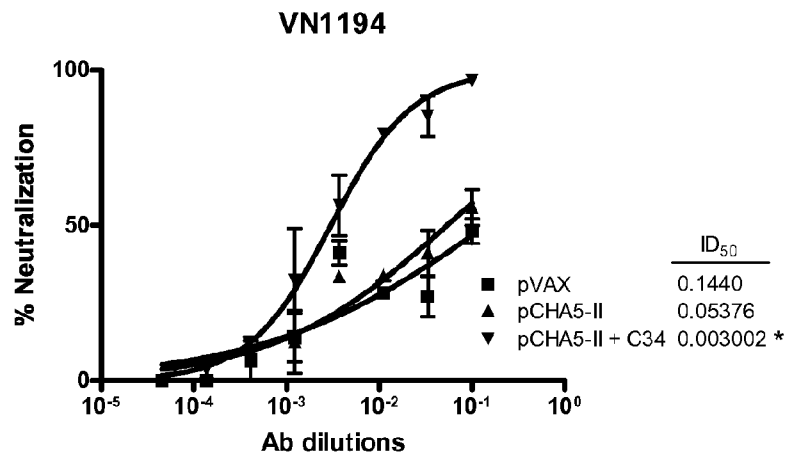


FIG. 79D

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Fig. 80

