

FIG. 1

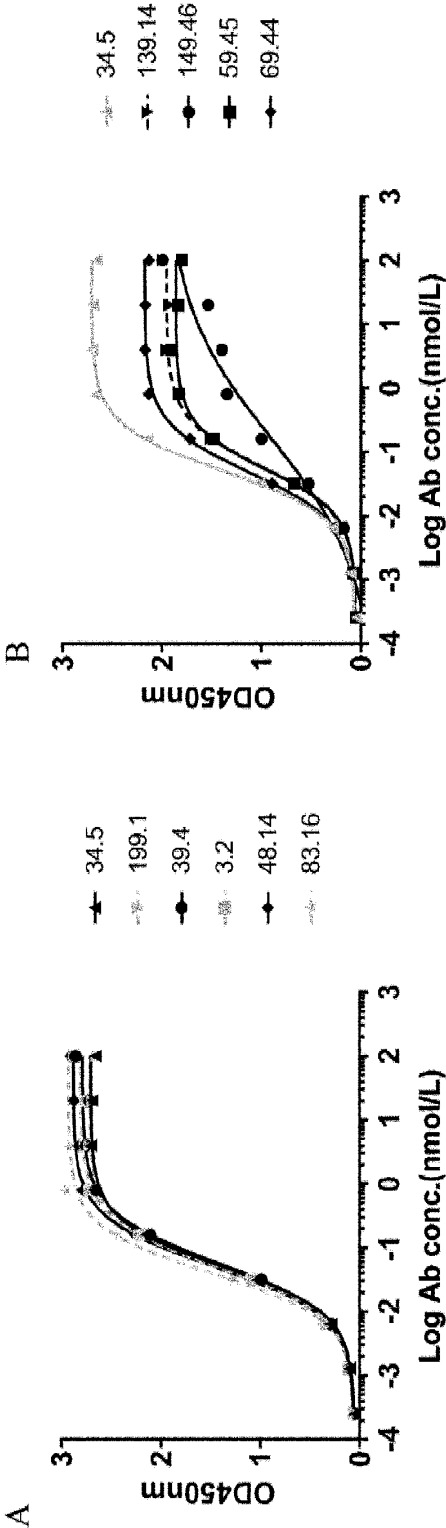


FIG. 2

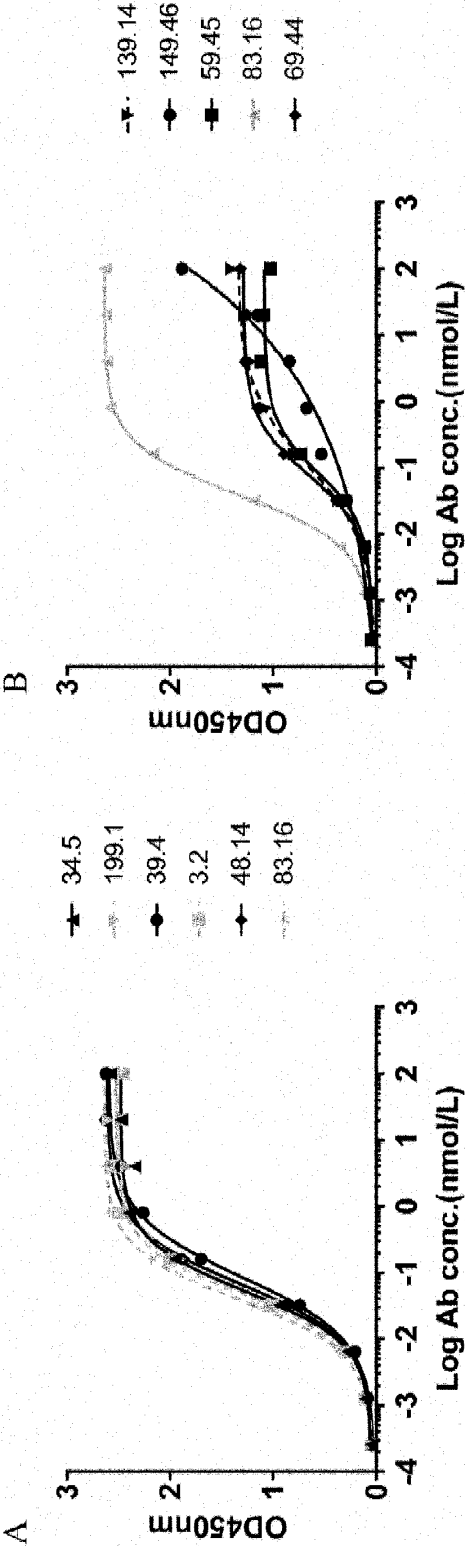


FIG. 3

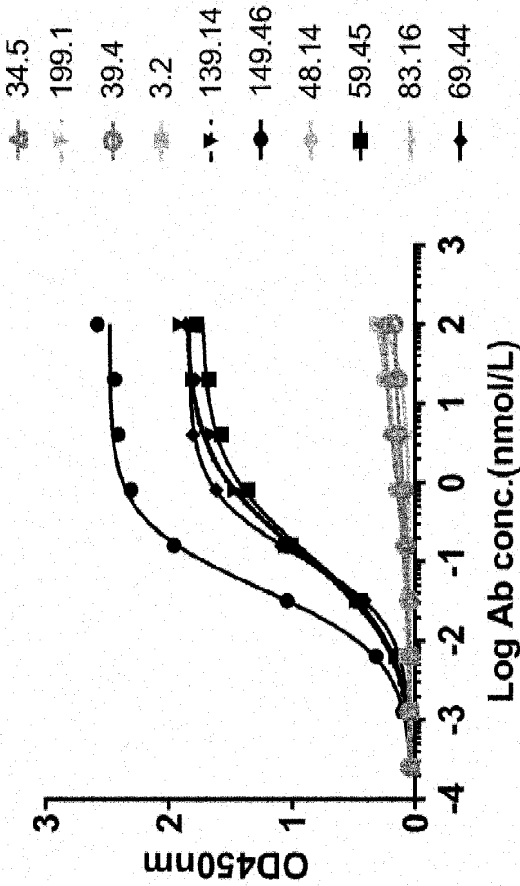


FIG. 4

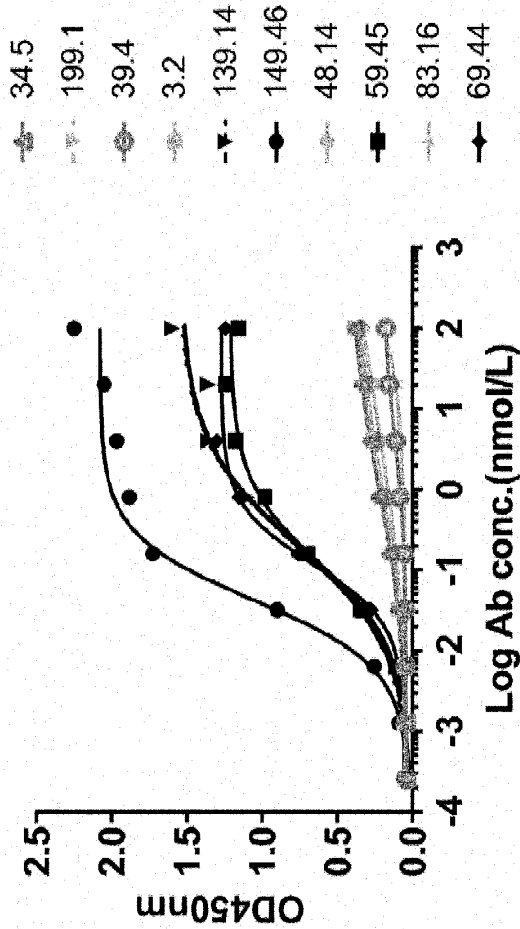


FIG. 5

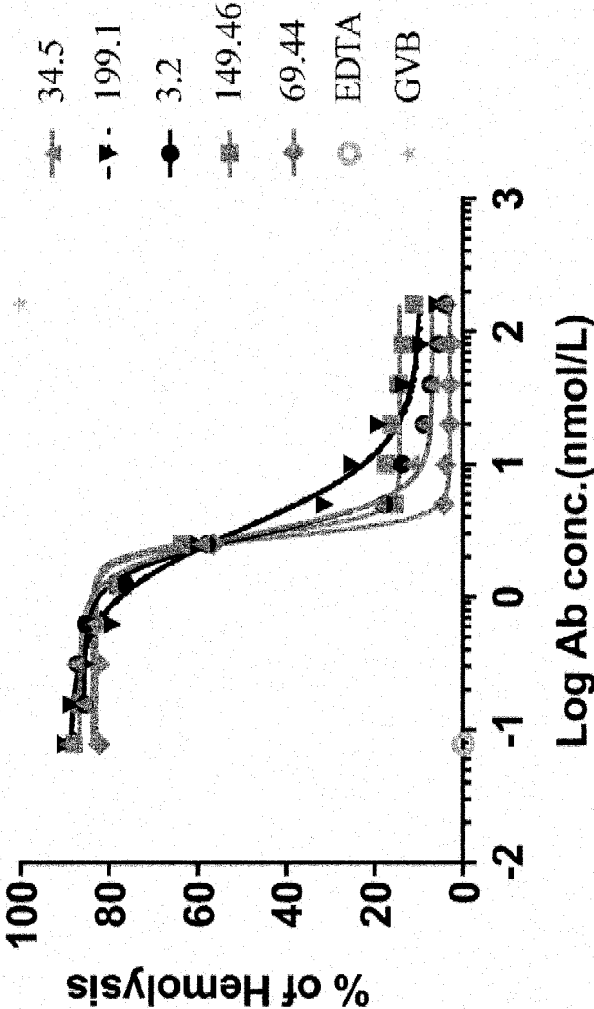


FIG. 6

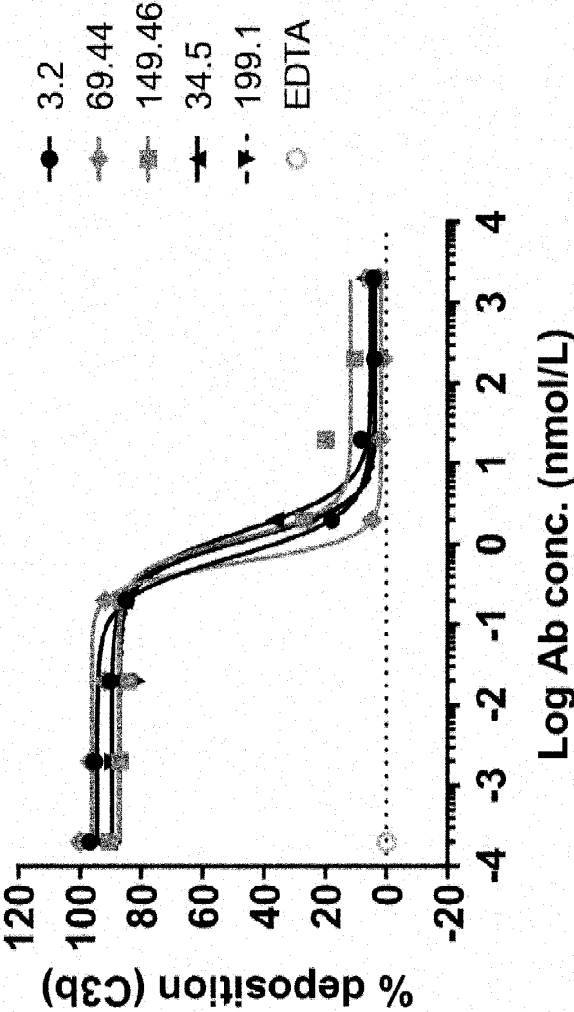


FIG. 7

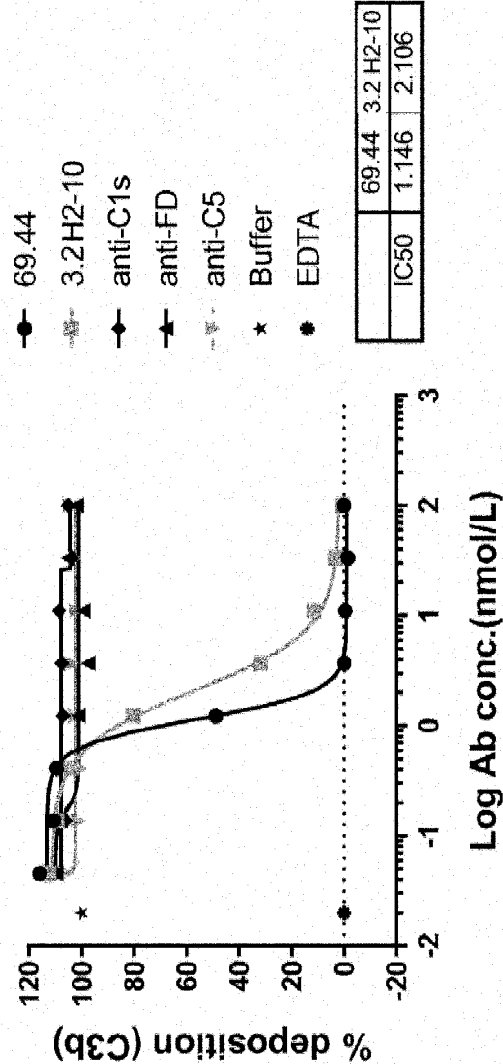
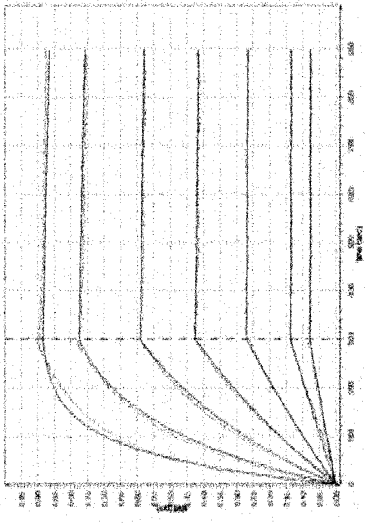
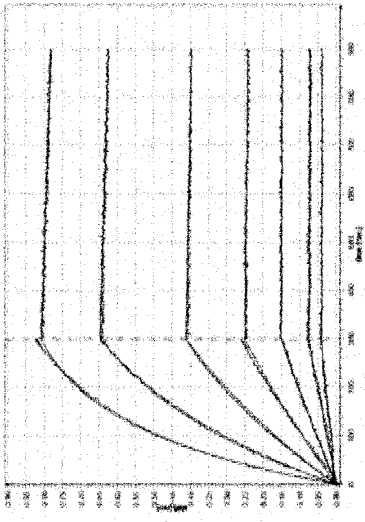


FIG. 8

69.44



3.2 H2-10

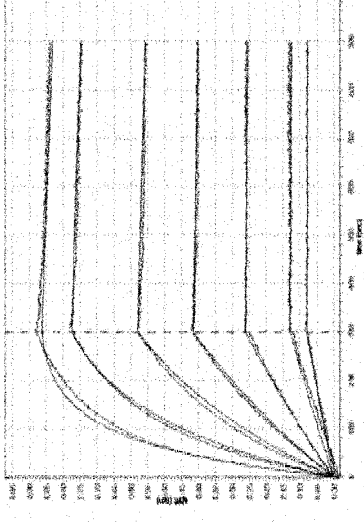
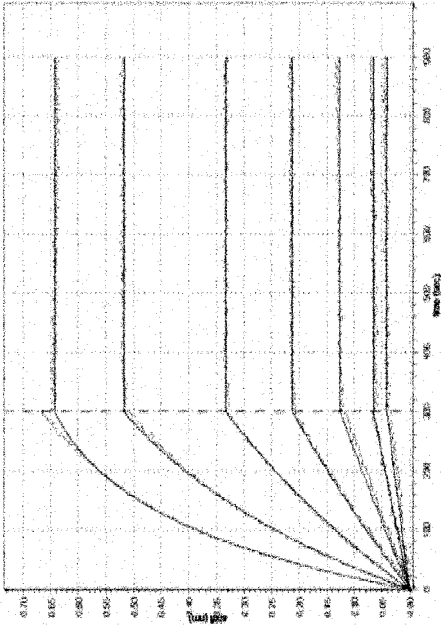


FIG. 9

69.44FH



3.3. 2 H2-10 FH

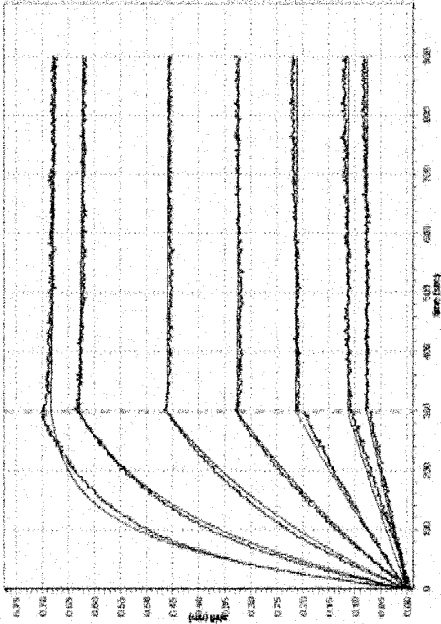


FIG. 10

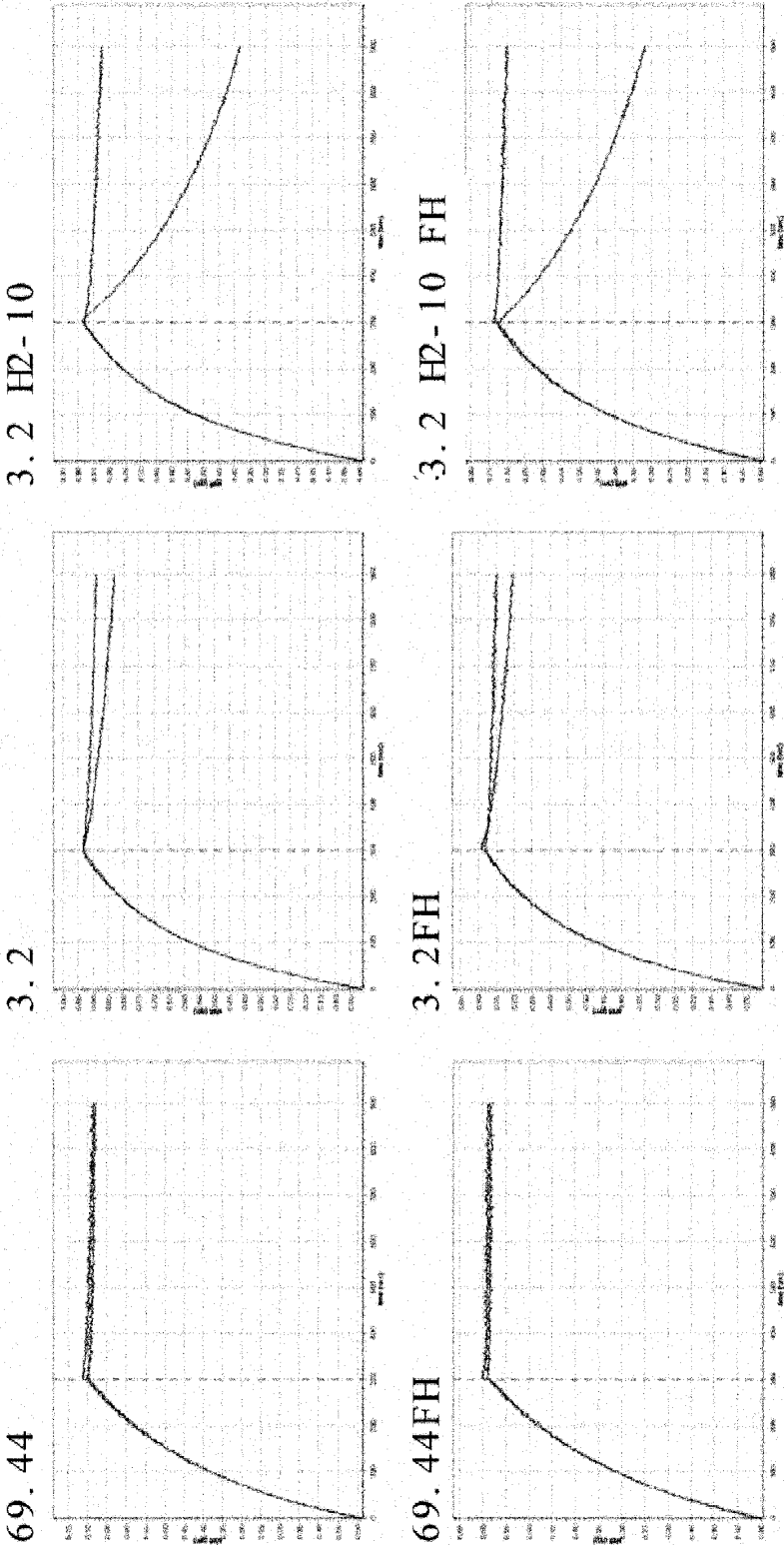


FIG. 11

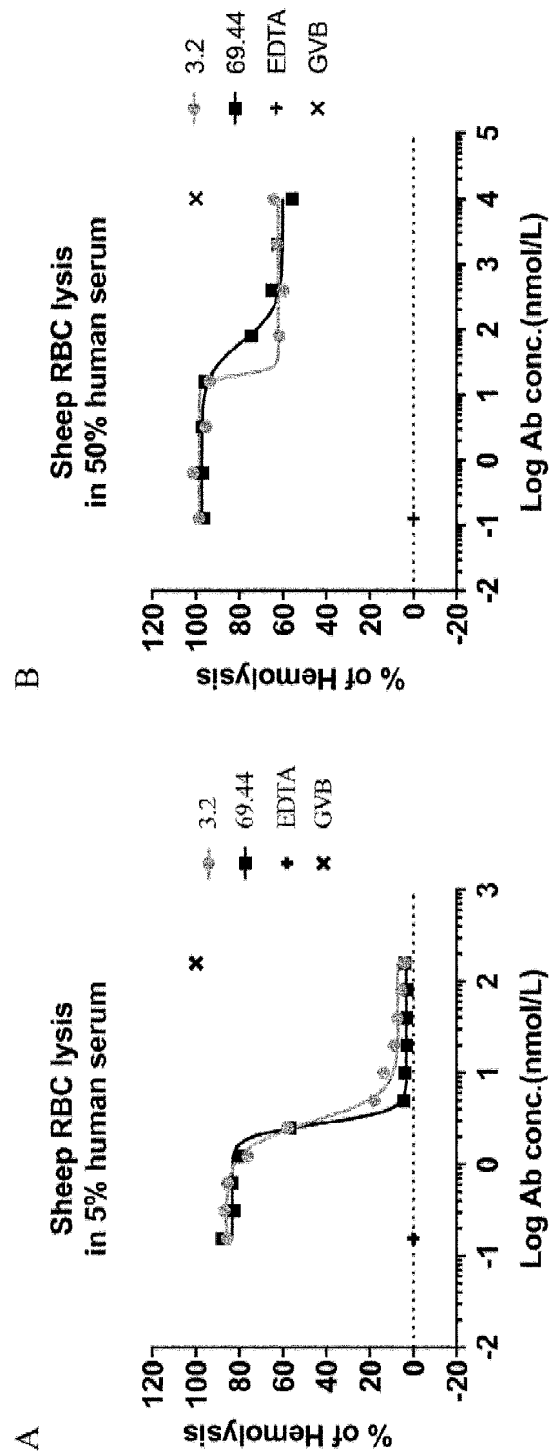


FIG. 12

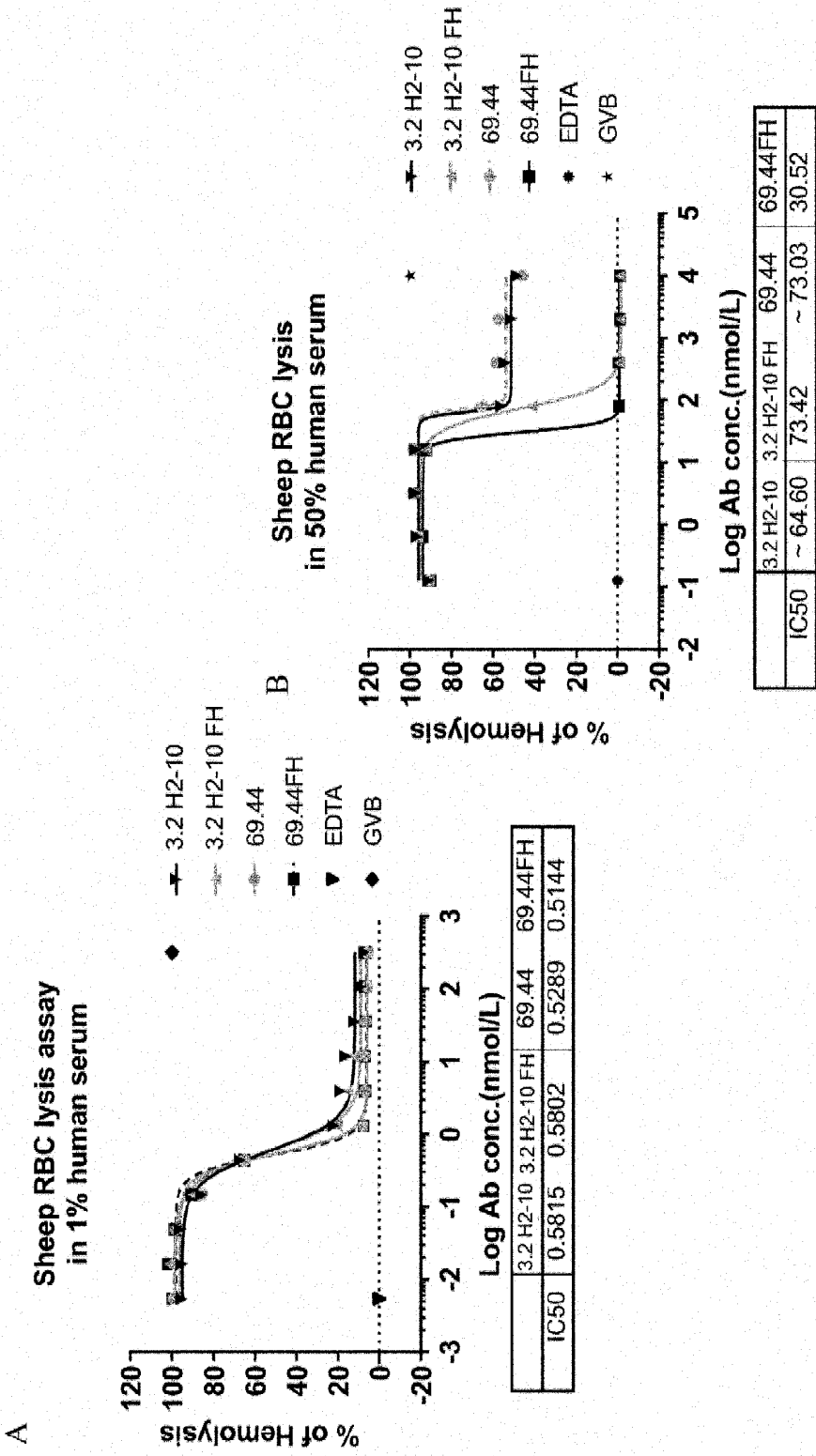


FIG. 13

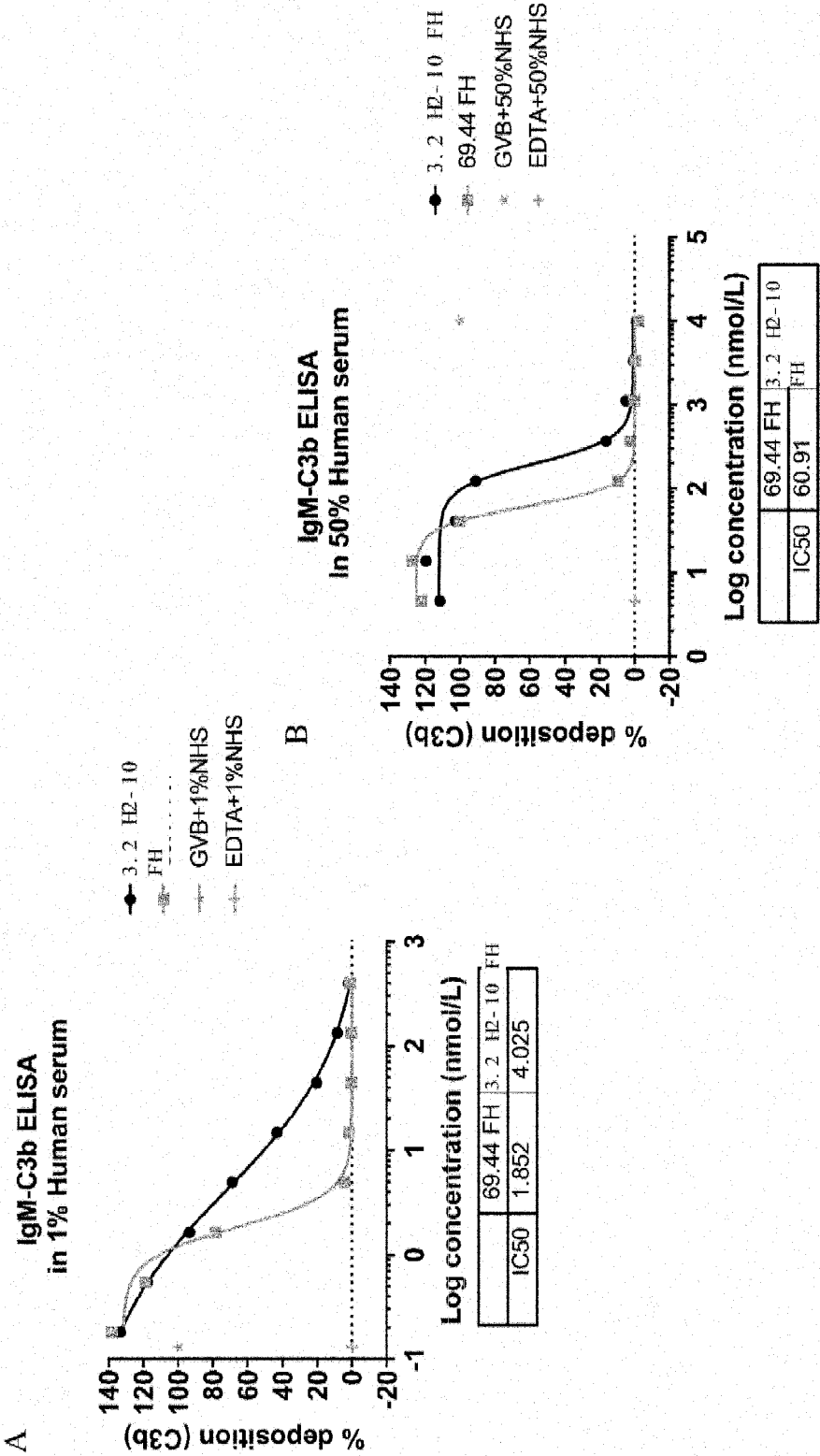
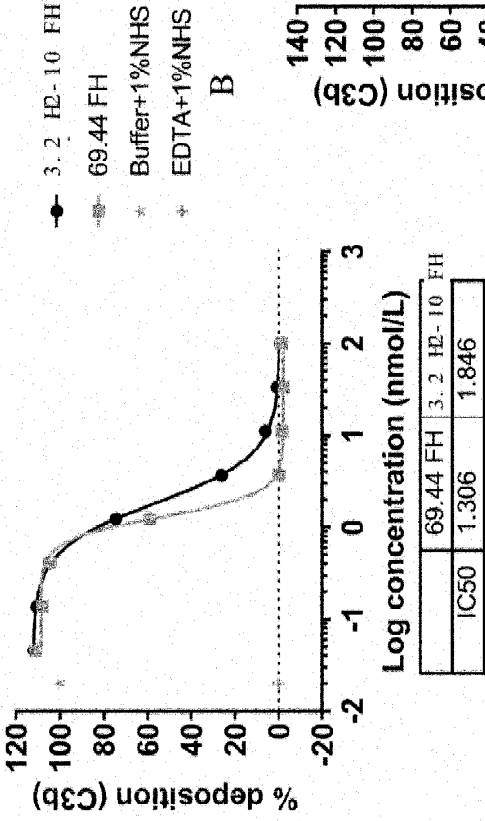


FIG. 14

A Mannan-C3b ELISA
in 1% Human serum



B Mannan-C3b ELISA
in 50% human serum

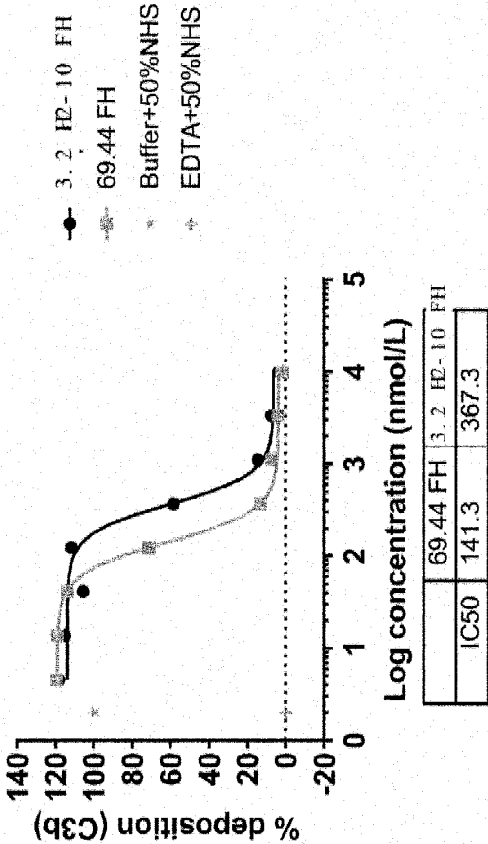


FIG. 15

A

LPS-C3b ELISA
in 10% Human serum

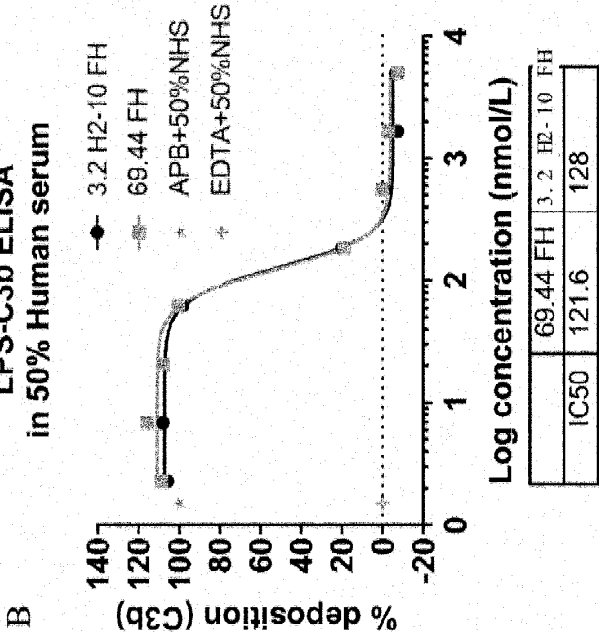
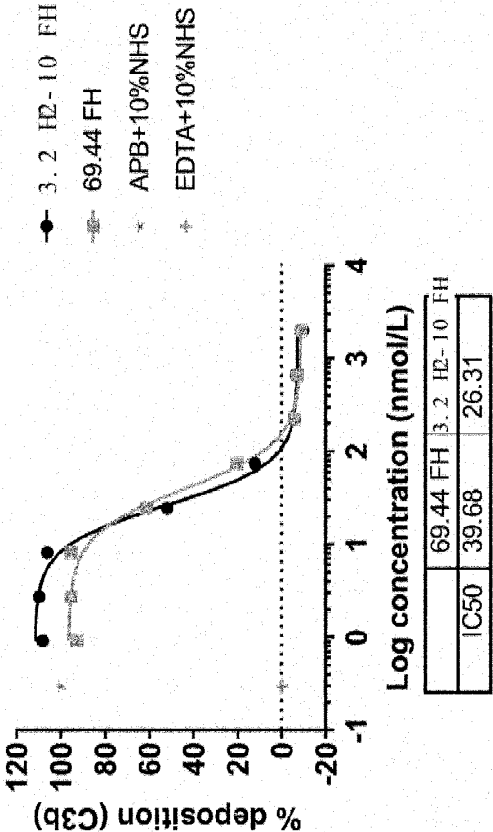
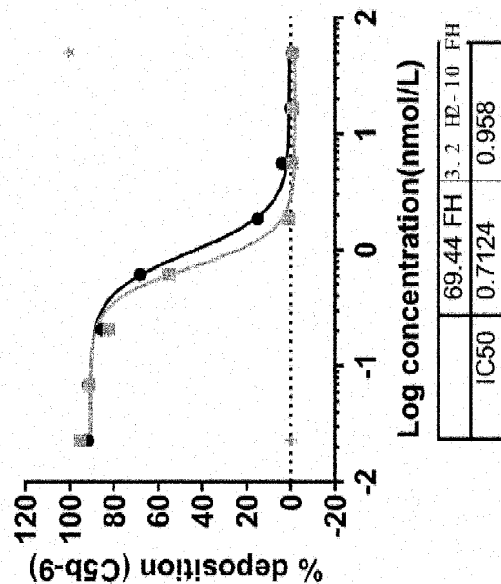


FIG. 16

A

IgM-C5b-9 ELISA
in 1% Human serum



IgM-C5b-9 ELISA
in 50% human serum

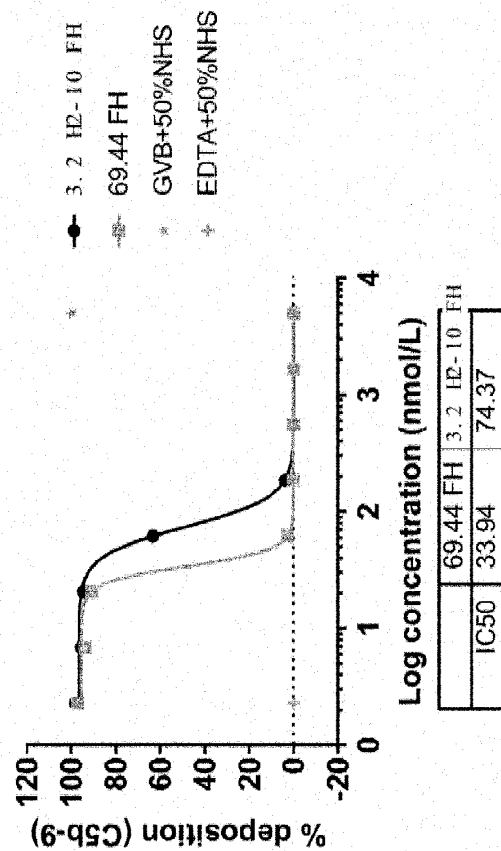


FIG. 17

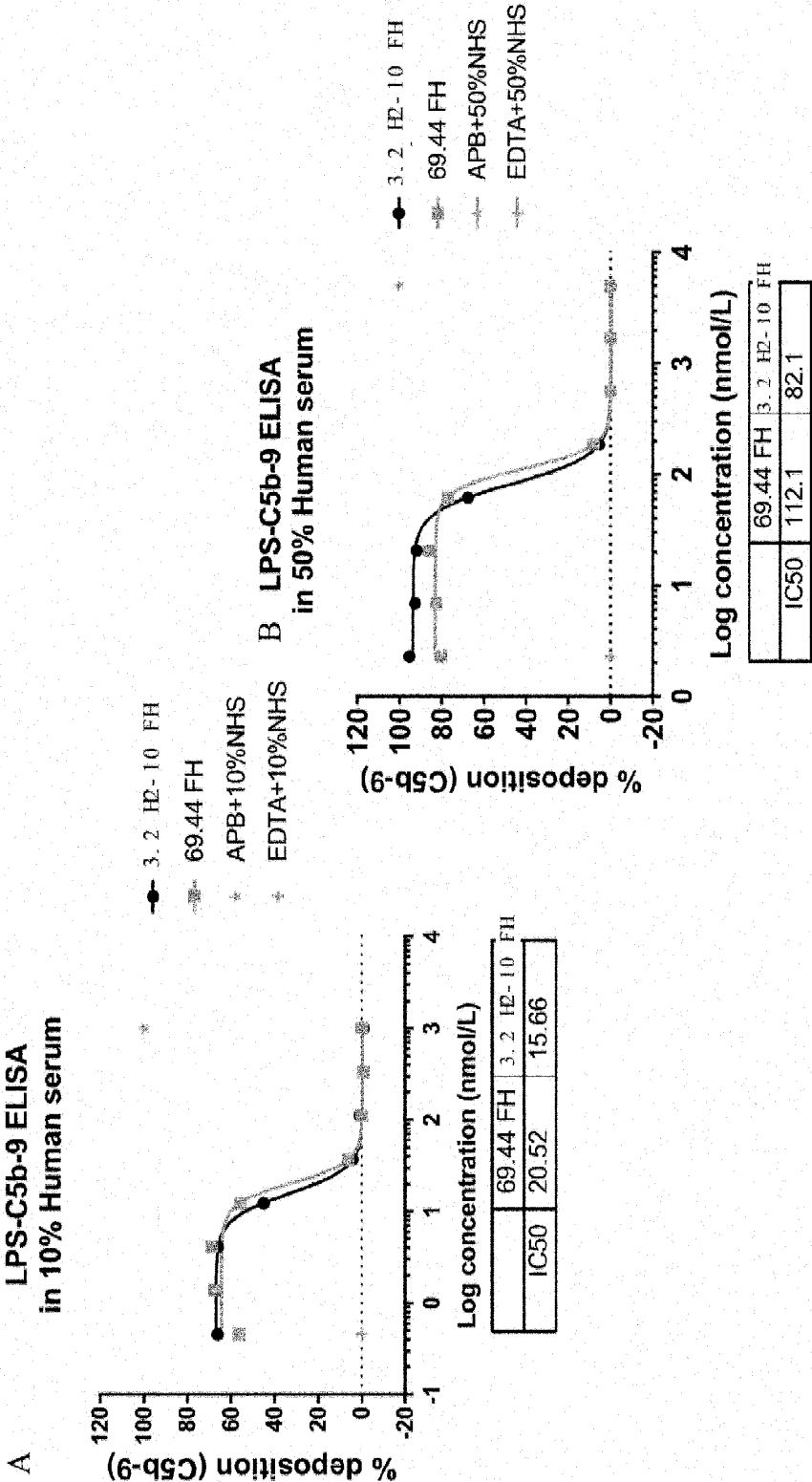


FIG. 18



FIG. 19

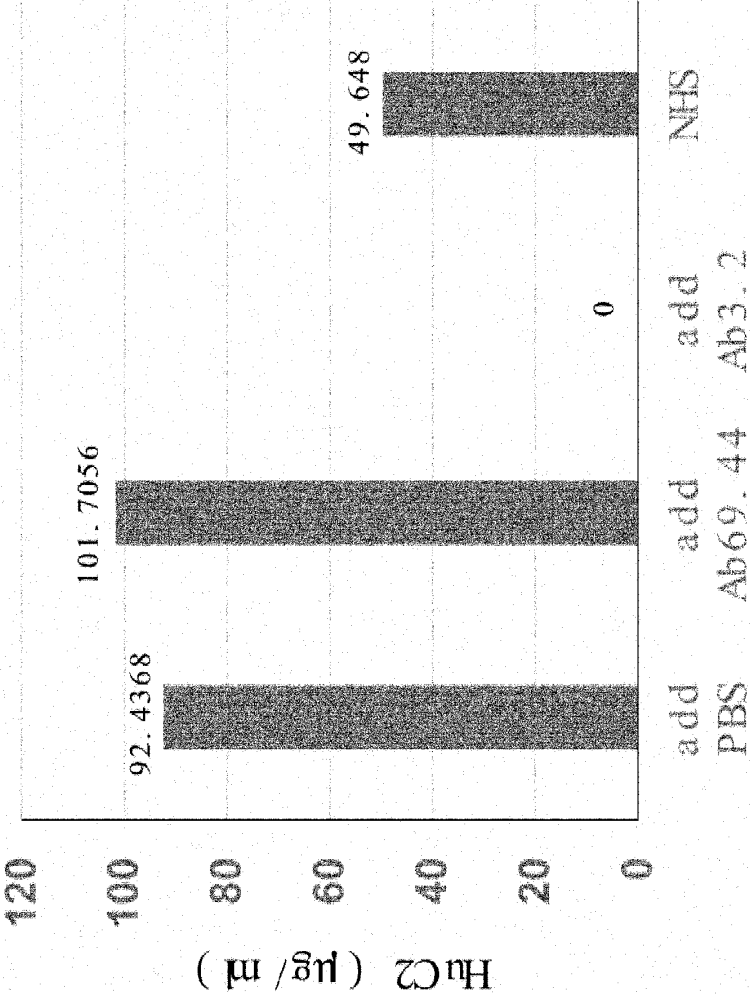


FIG. 20

	Name	Source
Capture Ab-1	11F3-2	In-house
Capture Ab-2	10154-R014	Sino Biol
Capture Ab-3	5C3	Abcam
Capture Ab-4	Anti-C2-R2	KIRA
Capture Ab-5	Anti-C2-R1	KIRA
Capture Ab-6	Anti-C2-34.5	KIRA
Capture Ab-7	Anti-C2-199.1	KIRA
Capture Ab-8	Anti-C2-149.46	KIRA
	Name	Source
Detection Ab-1	10154-MM06-H	Sino Biol
Detection Ab-2	BAF1936	R&D

FIG. 21

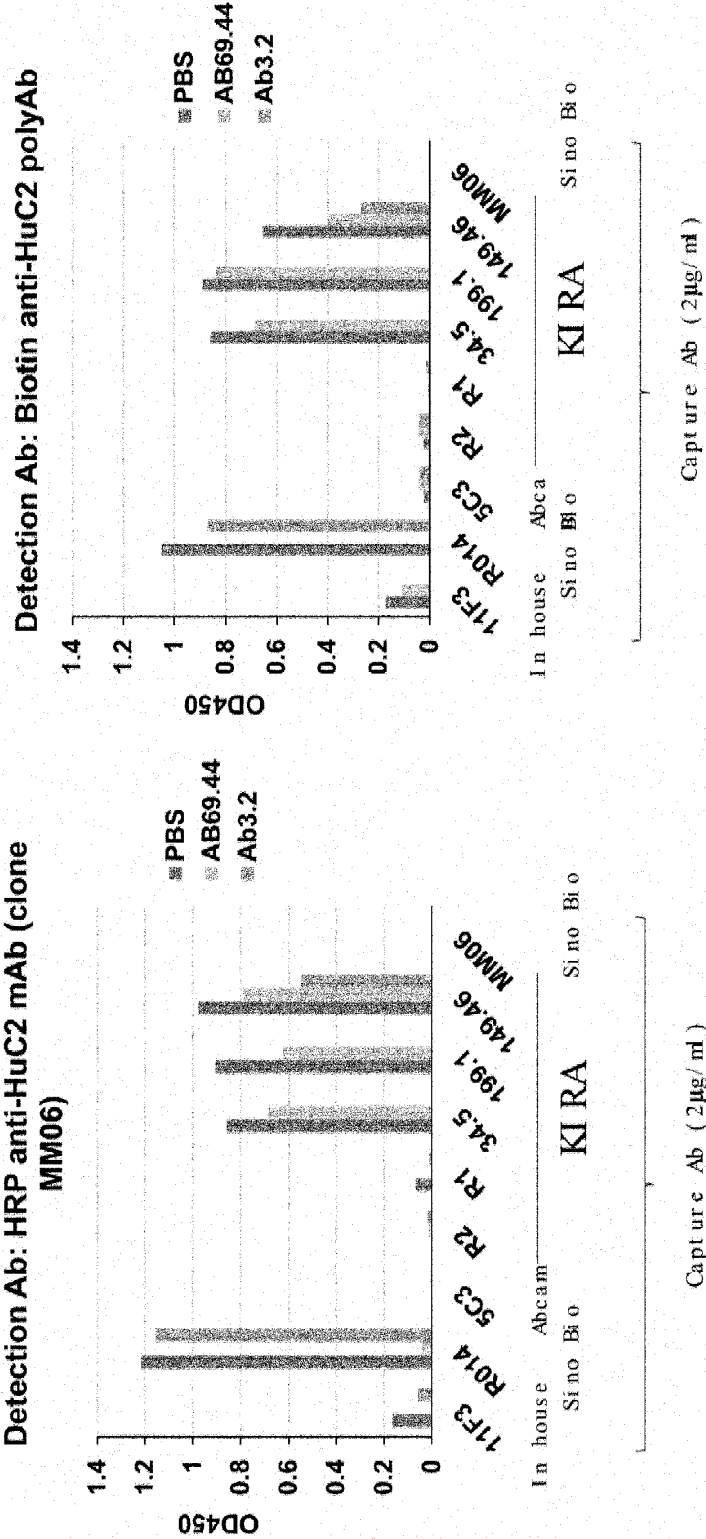


FIG. 22A

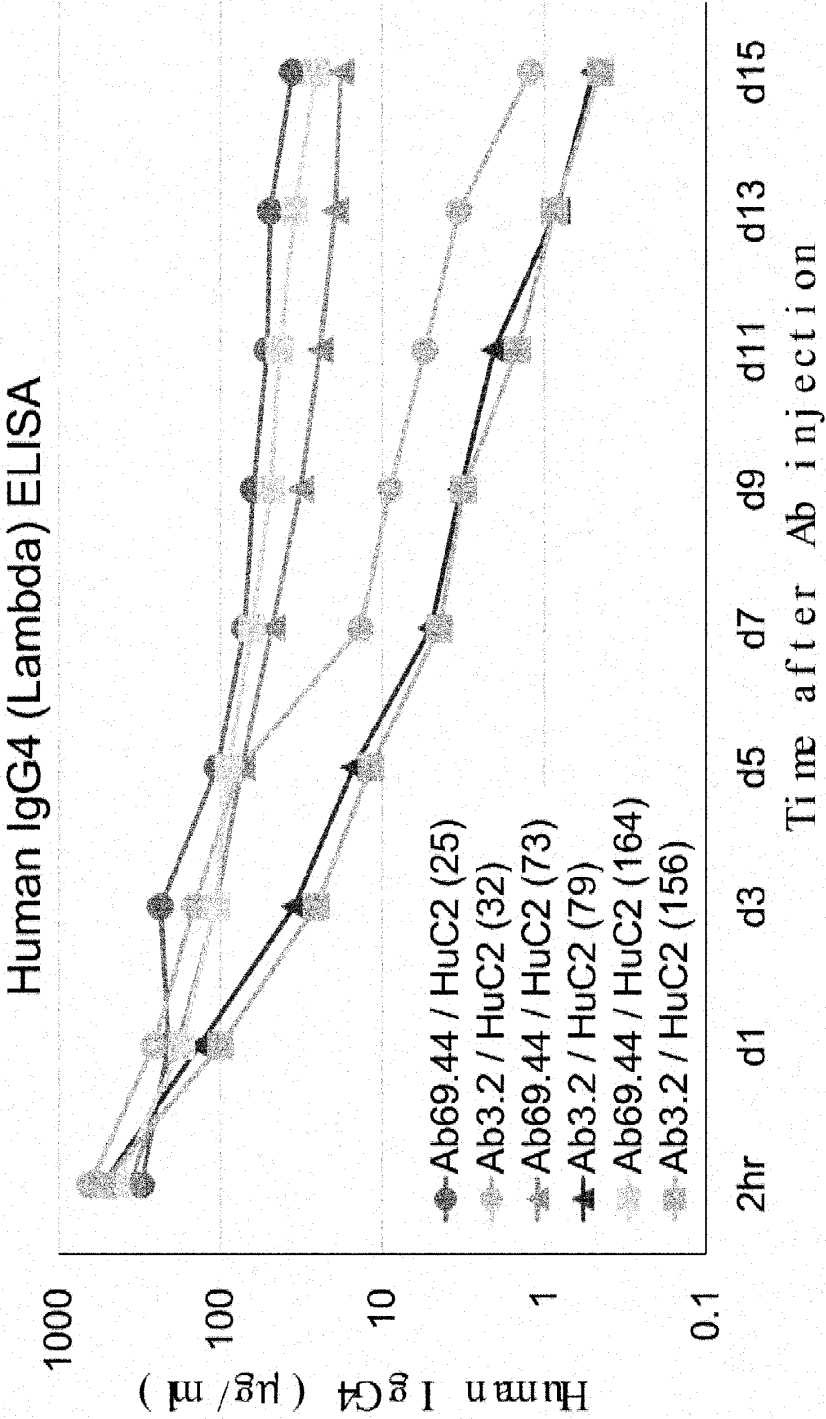


FIG. 22B

		2hr	d1	d3	d5	d7	d9	d11	d13	d15
Mo-08	Ab69.44 / HuC2 (25)	307.83	209.46	234.708	104.858	70.982	62.616	51.4741	49.376	35.934
Mo-19	Ab3.2 / HuC2 (32)	640.47	258.527	145.458	75.578	13.6151	8.95941	5.47104	3.35624	1.21696
Mo-01	Ab69.44 / HuC2 (73)	363.47	184.036	106.695	73.794	48.128	32.0523	24.3376	19.588	18.0731
Mo-03	Ab3.2 / HuC2 (79)	534.35	135.054	35.0517	15.0131	5.01328	3.28672	2.04072	0.84128	0.49664
Mo-17	Ab69.44 / HuC2 (164)	439.86	174.433	107.136	89.262	63.938	48.976	43.0488	34.946	25.594
Mo-09	Ab3.2 / HuC2 (156)	538.08	100.236	25.6283	11.794	4.43928	3.15056	1.46504	0.86432	0.44816

FIG. 23

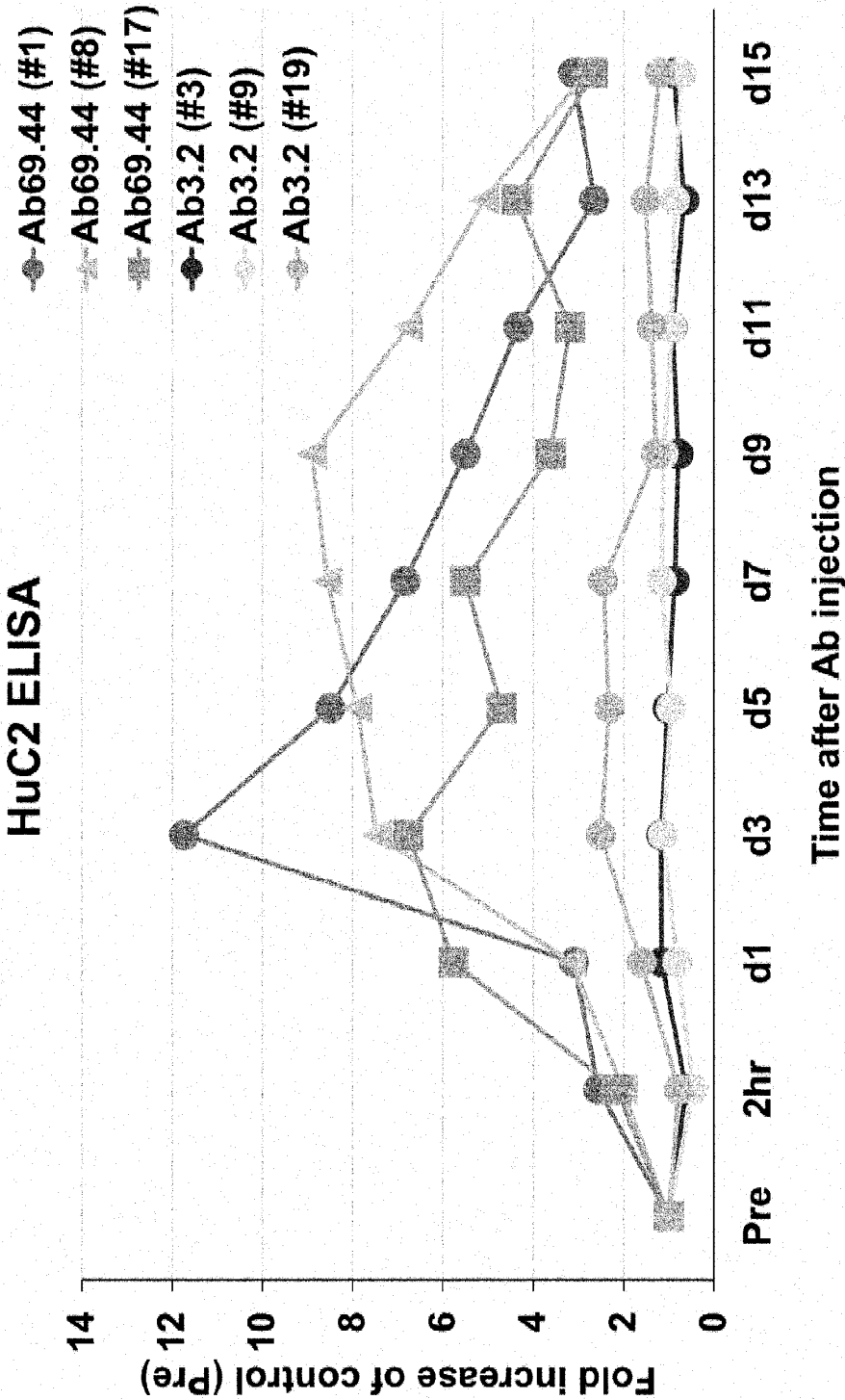
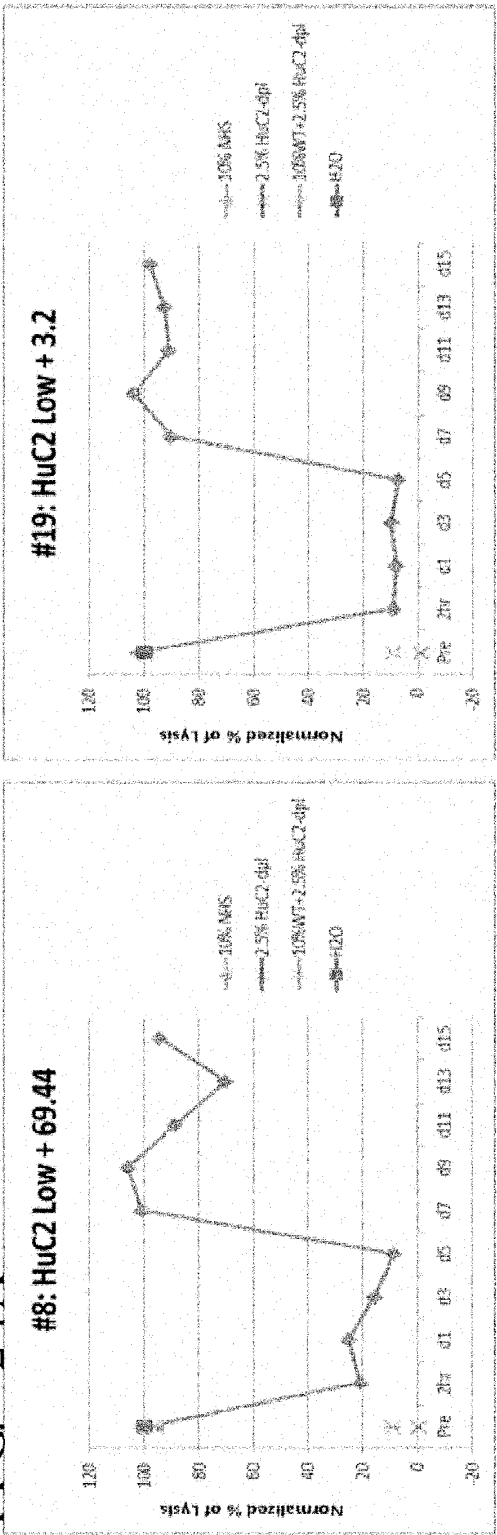


FIG. 24A



#8: HuC2 Low + 69.44

	Pre	2hr	d1	d3	d5	d7	d9	d11	d13	d15
GVB	98.4337	20.9398	25.2405	15.5869	8.50308	100.874	105.733	88.3747	70.159	94.3361
10% NHS	95.8419									
2.5% HuC2-dpl	-0.6153									
10%WT+2.5%HuC2-dpl	8.83834									
H2O	100									

#19: HuC2 Low + 3.2

	Pre	2hr	d1	d3	d5	d7	d9	d11	d13	d15
GVB	101.835	9.00917	7.92607	9.83486	7.37981	90.3066	103.913	90.9805	92.4915	98.0118
10% NHS	102.77									
2.5% HuC2-dpl	-0.9235									
10%WT+2.5%HuC2-dpl	8.82614									
H2O	100									

FIG. 24B

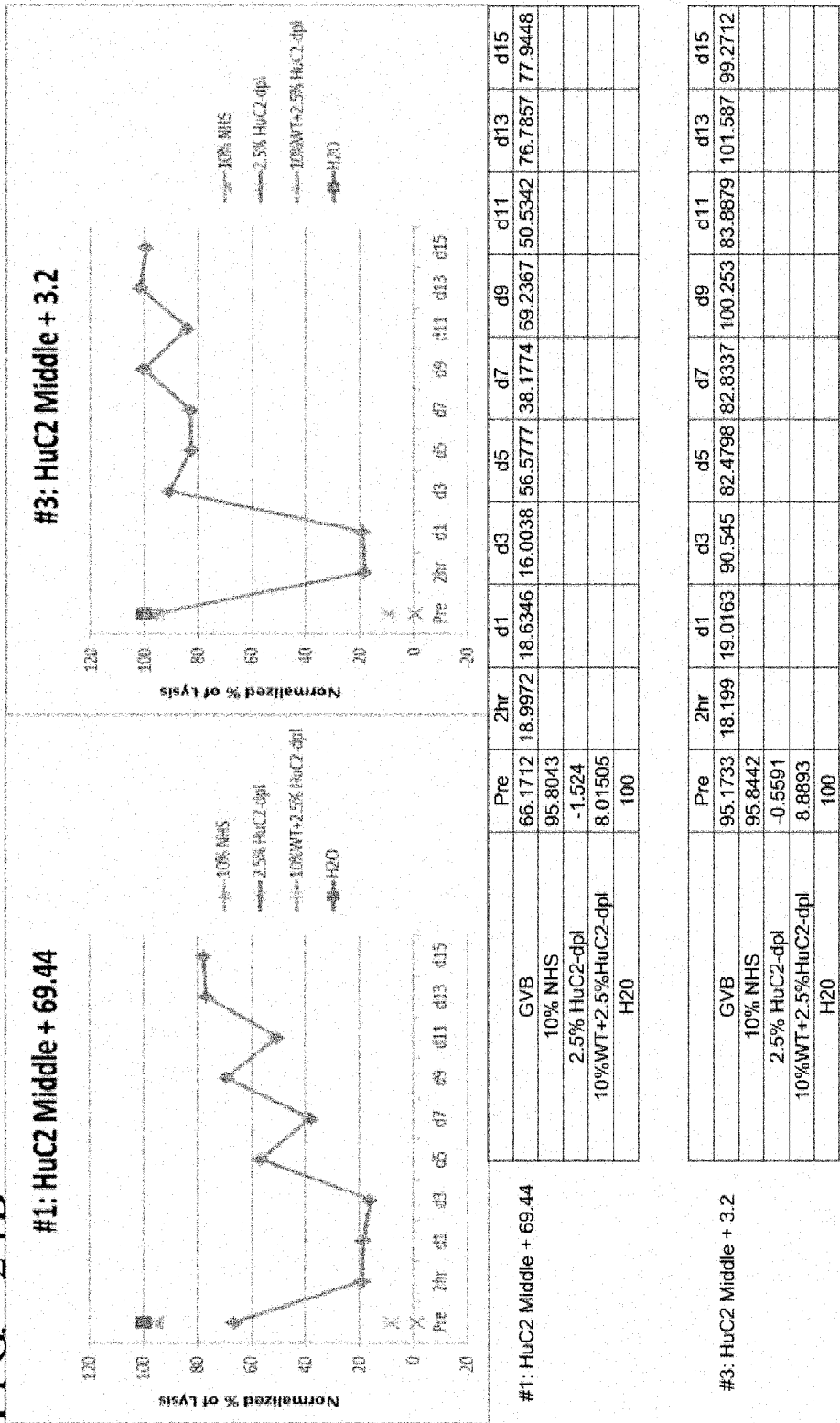


FIG. 24C

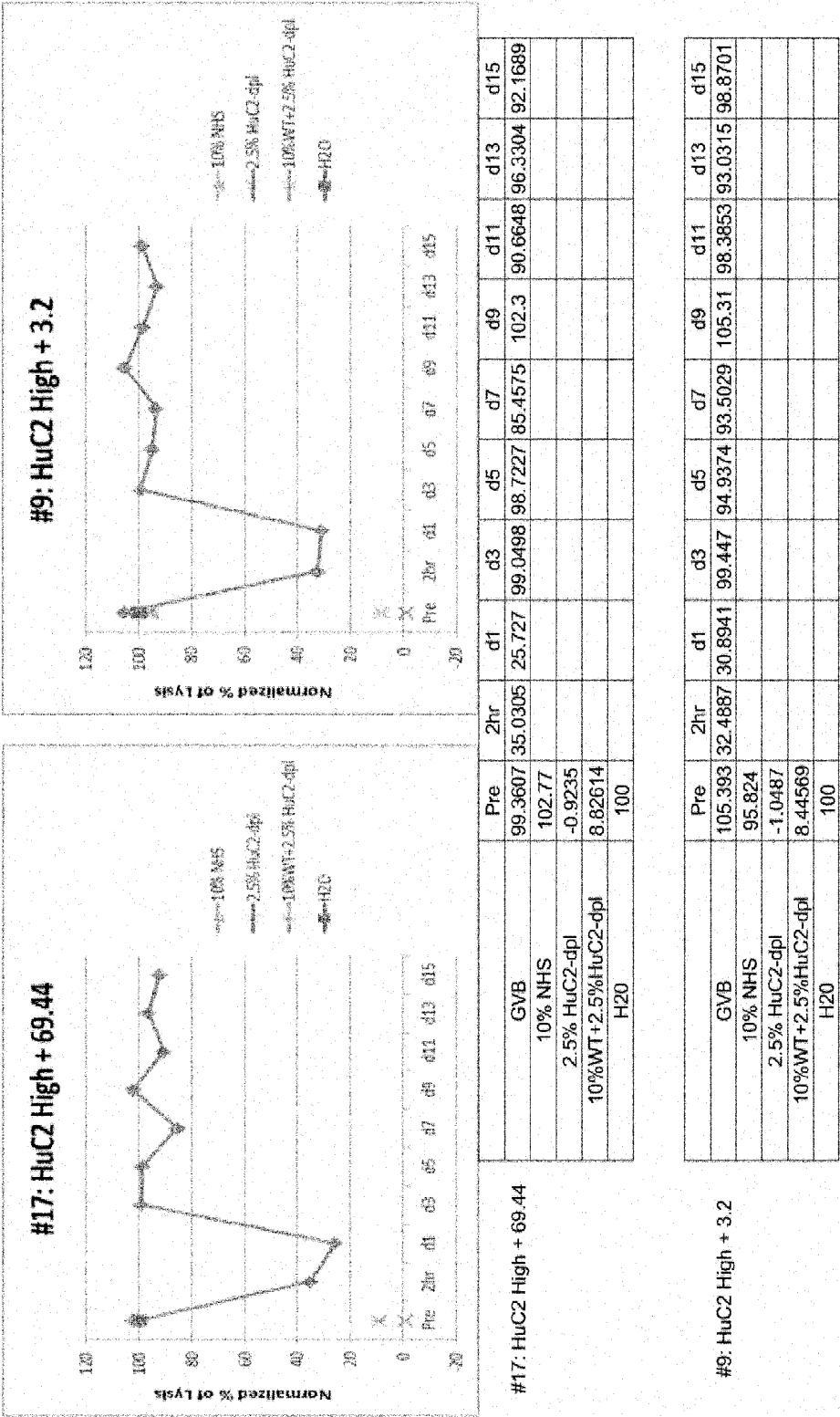


FIG. 25

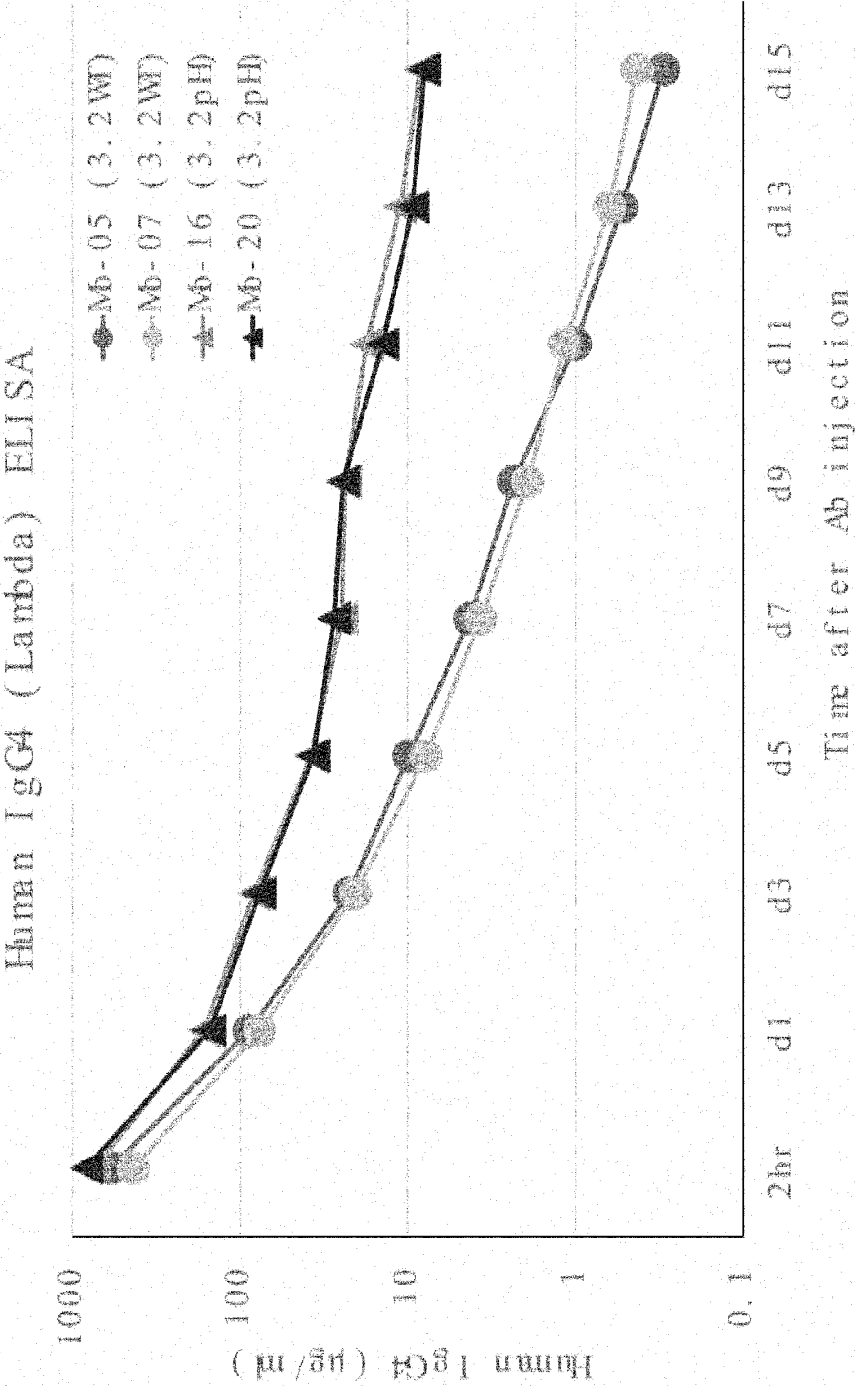


FIG. 26A

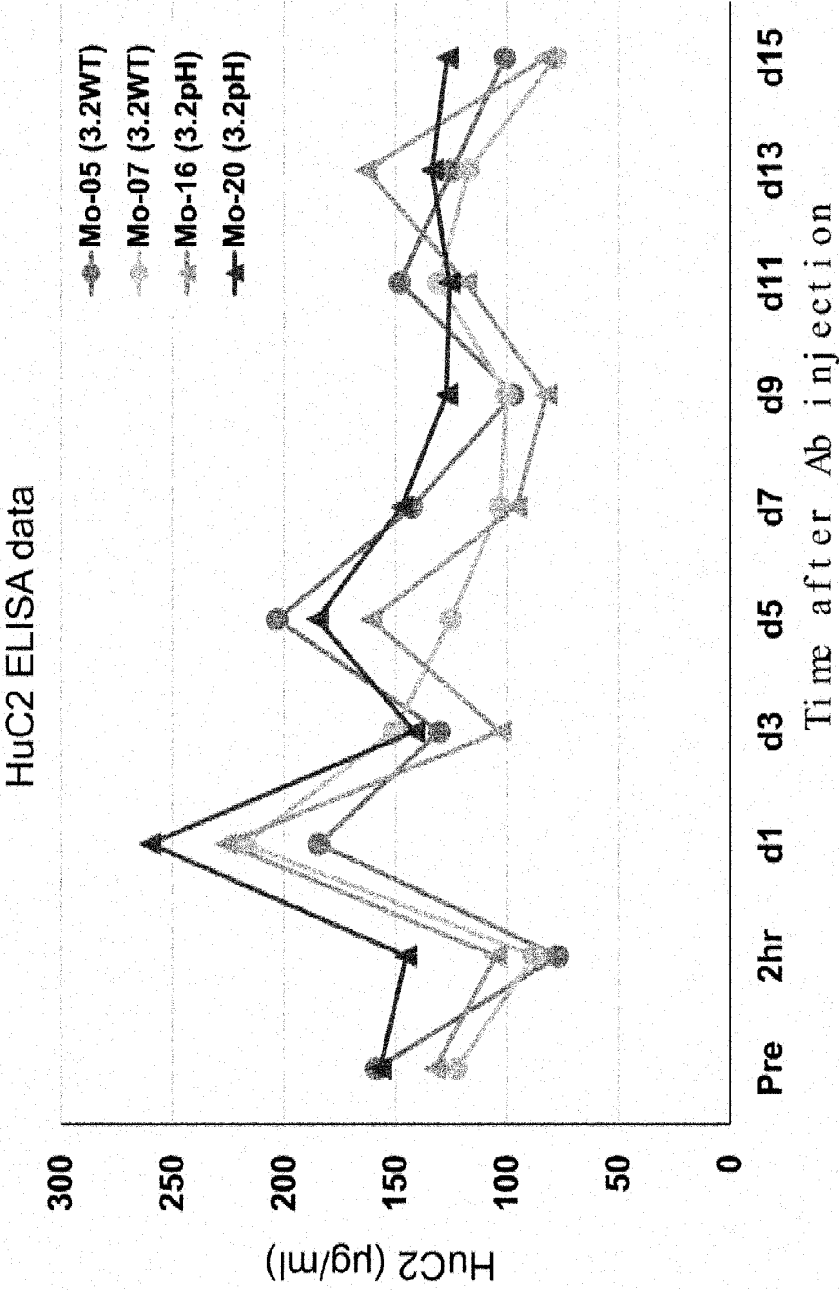


FIG. 26B

	Pre	2hr	d1	d3	d5	d7	d9	d11	d13	d15
Mo-05 (3.2WT)	158.72	77.2864	184.474	130.304	203.059	142.763	97.2032	148.224	124.544	100.992
Mo-07 (3.2WT)	122.701	88.1835	217.677	150.682	125.21	103.373	100.25	130.645	117.197	77.8923
Mo-16 (3.2pH)	132.557	105.114	226.099	103.219	161.135	95.9061	82.4491	118.545	163.226	82.8672
Mo-20 (3.2pH)	157.03	145.306	260.019	141.85	185.216	147.405	127.155	125.926	133.726	126.908

FIG. 26C

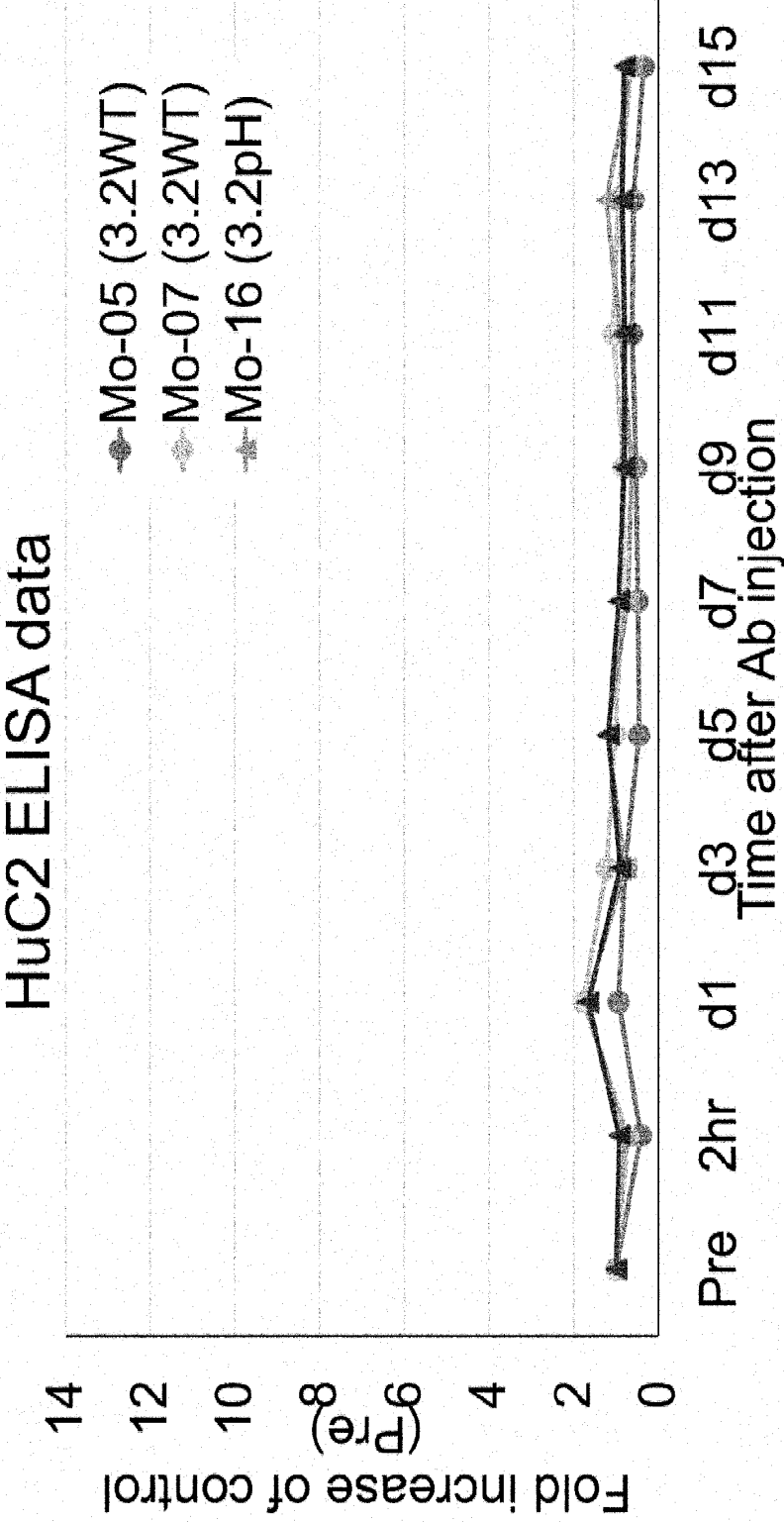


FIG. 27A

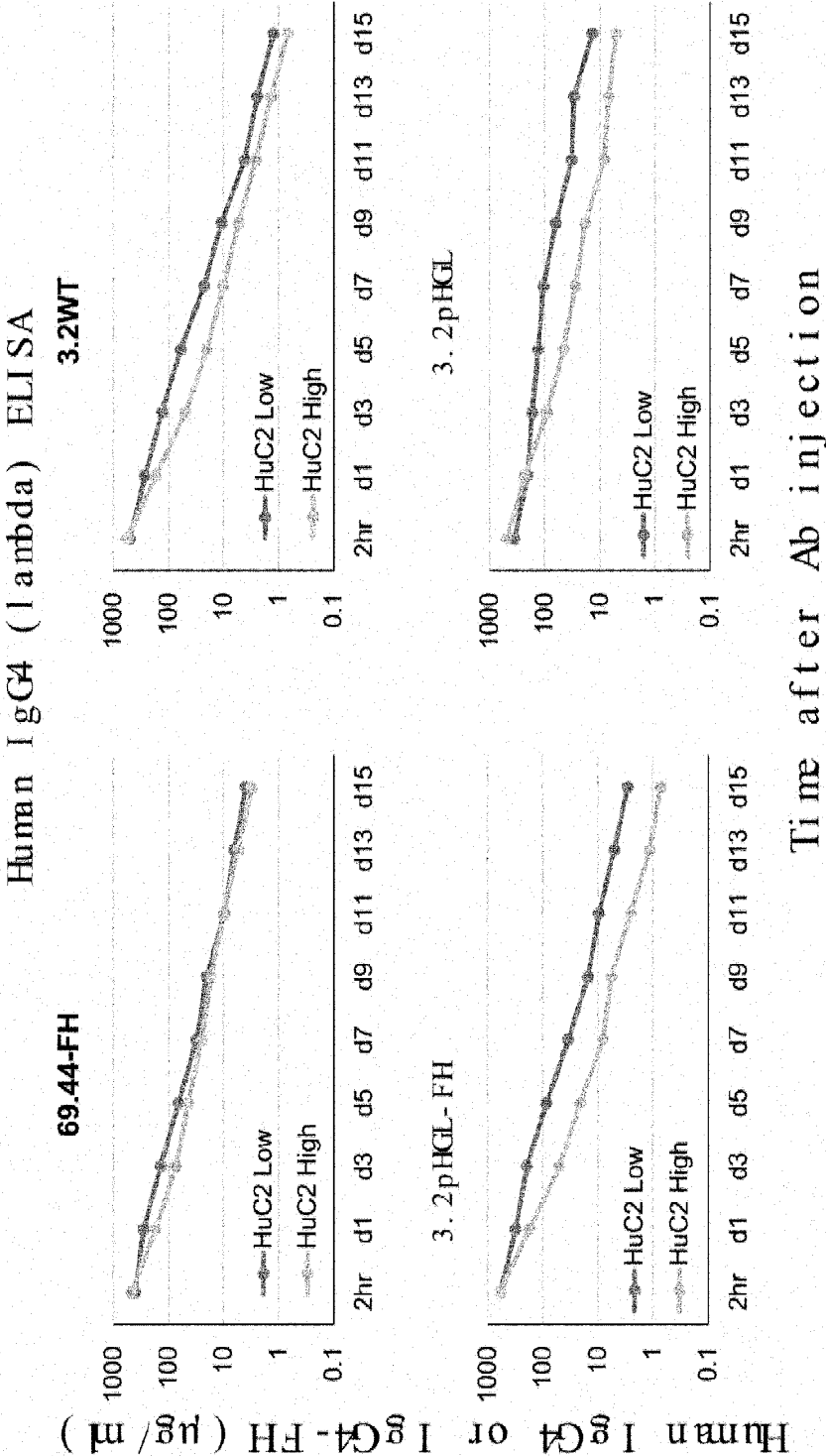


FIG. 27B

69.44-FH (C2L)		2hr	d1	d3	d5	d7	d9	d11	d13	d15
	HuC2 Low	402.83	281.454	138.96	65.31	30.7056	20.2596	9.5876	6.33912	3.94152
69.44-FH (C2H)	HuC2 High	471.62	169.652	72.54	43.358	25.0188	16.5884	10.0215	5.41336	3.03256
		2hr	d1	d3	d5	d7	d9	d11	d13	d15
3.2WT (C2L)	HuC2 Low	504.06	264.87	132.546	60.03	22.5896	10.8812	4.12032	2.44728	1.23664
3.2WT (C2H)	HuC2 High	569.51	169.088	48.83	19.9388	10.1256	5.29016	2.60656	1.36368	0.68224
		2hr	d1	d3	d5	d7	d9	d11	d13	d15
3.2pHGL (C2L)	HuC2 Low	354.29	206.15	169.44	131.176	106.674	62.496	32.632	29.5696	13.7212
3.2pHGL (C2H)	HuC2 High	485.3	228.68	91.554	46.08	27.81	18.4636	8.3344	6.9428	5.01296
		2hr	d1	d3	d5	d7	d9	d11	d13	d15
3.2pHGL-FH (C2L)	HuC2 Low	590.24	310.86	192.624	85.2836	34.1788	15.0768	9.53632	5.06024	2.87984
3.2pHGL-FH (C2H)	HuC2 High	602.31	175.946	49.3252	20.7874	8.14008	5.722	2.5328	1.14608	0.72688

FIG. 28A

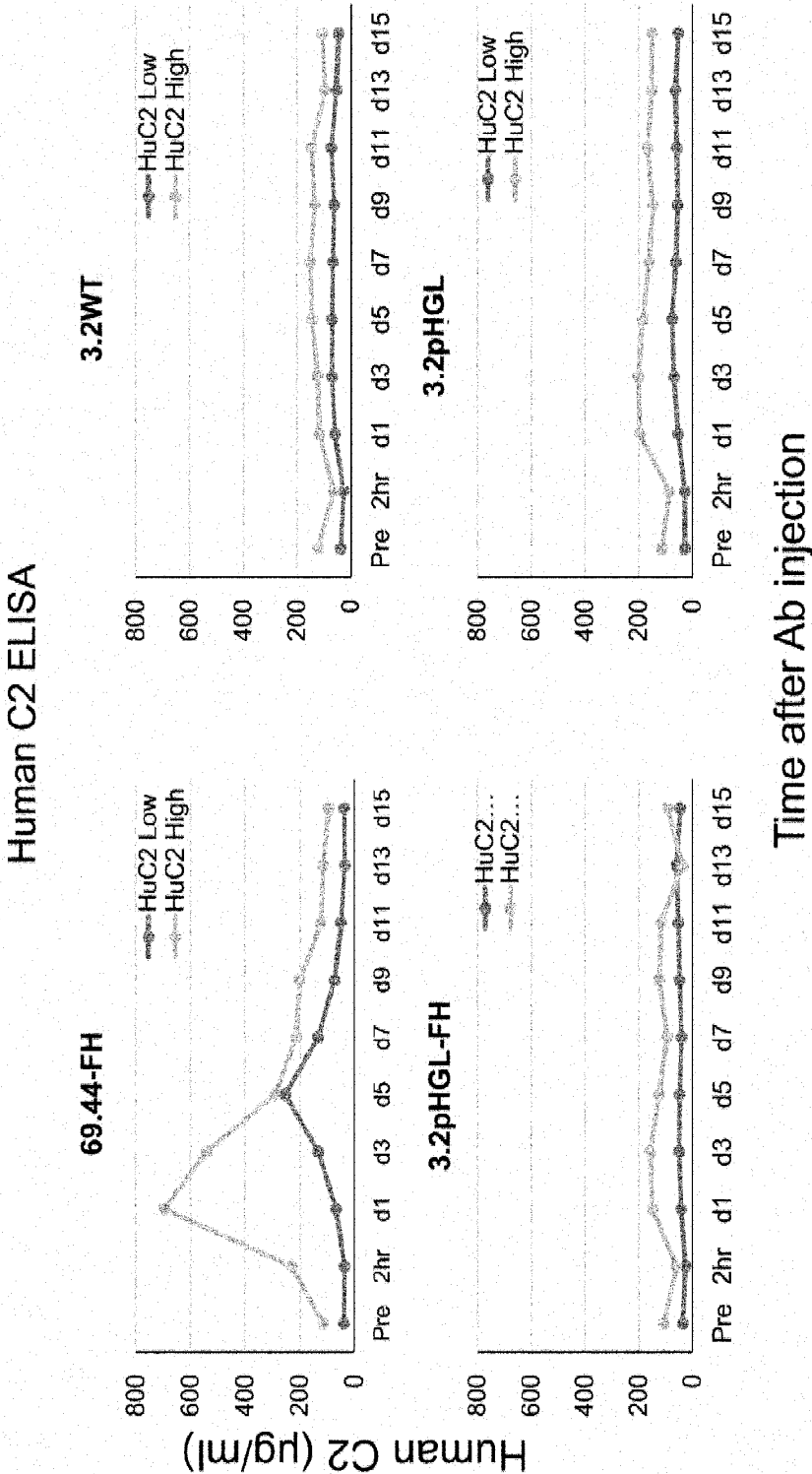


FIG. 28B

Absolute value		Pre	2hr	d1	d3	d5	d7	d9	d11	d13	d15
69.44-FH (C2L)	HuC2 Low	38.984	36.808	67.9856	131.9984	253.5424	133.3344	73.1504	48.9136	35.9792	38.0112
69.44-FH (C2H)	HuC2 High	115.0384	229.2112	696.7296	541.1232	290.4144	213.2112	199.2176	122.5008	115.1824	94.3312
		Pre	2hr	d1	d3	d5	d7	d9	d11	d13	d15
3.2WT (C2L)	HuC2 Low	37.3952	26.6336	59.648	69.8816	69.7408	66.7904	62.4	72.3328	54.1888	45.472
3.2WT (C2H)	HuC2 High	123.0848	63.8144	117.2224	124.1408	143.7184	151.7952	134.4192	145.6384	97.1392	105.6512
		Pre	2hr	d1	d3	d5	d7	d9	d11	d13	d15
3.2pHGL (C2L)	HuC2 Low	28.4416	28.2976	52.4032	69.3056	76.0768	61.9968	54.7968	58.1888	63.68	52.5824
3.2pHGL (C2H)	HuC2 High	113.1776	86.2208	196.352	201.4976	185.5232	161.8176	146.9696	167.6032	151.6032	150.528
		Pre	2hr	d1	d3	d5	d7	d9	d11	d13	d15
3.2pHGL-FH (C2L)	HuC2 Low	35.8976	26.3136	41.9072	50.0448	48.0224	40.6976	48.56	52.5248	59.0016	45.9104
3.2pHGL-FH (C2H)	HuC2 High	106.8384	59.5488	149.4016	157.44	124.2432	94.8992	123.1488	116.608	37.1392	92.6336

FIG. 28C

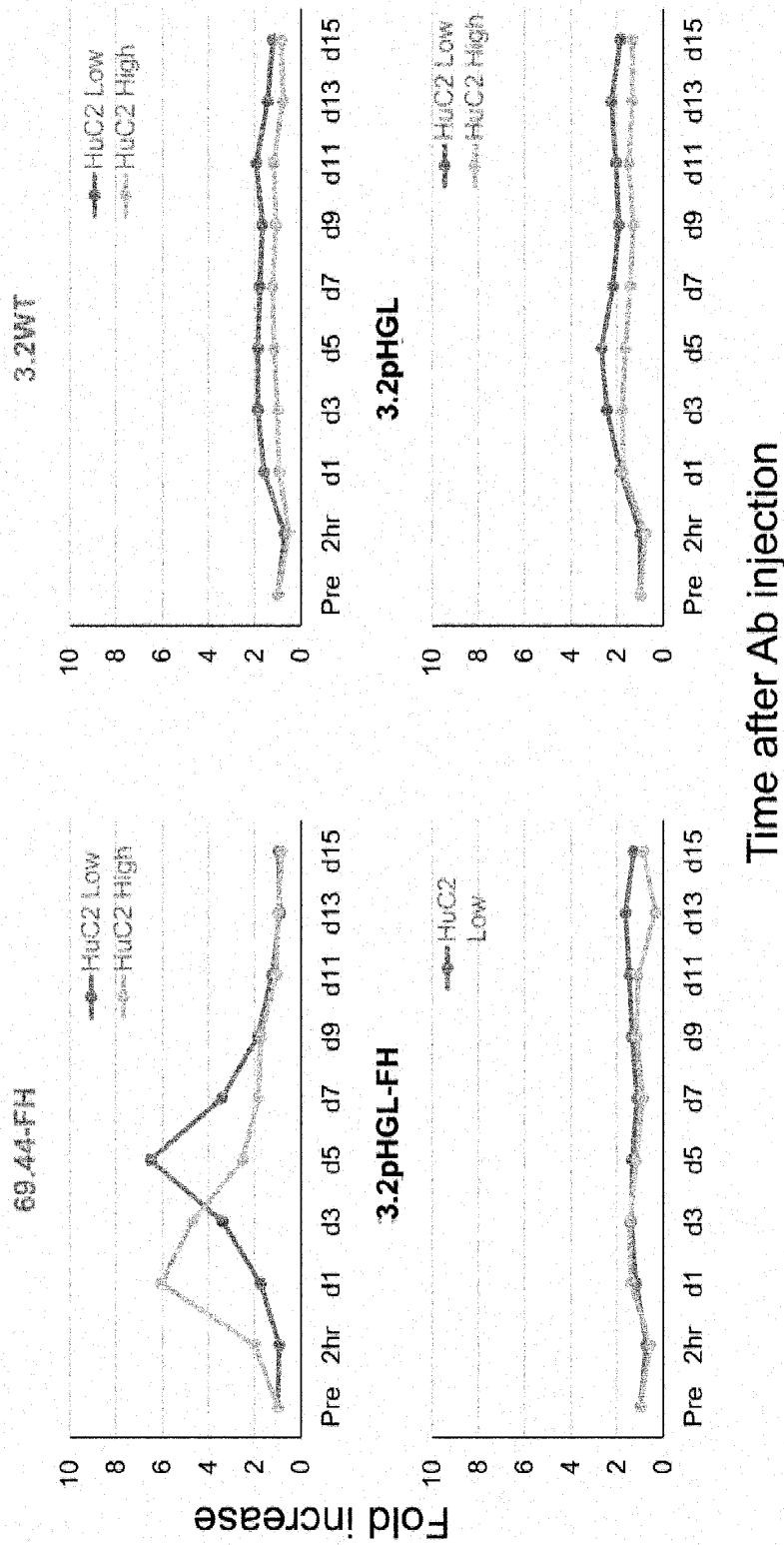


FIG. 29A

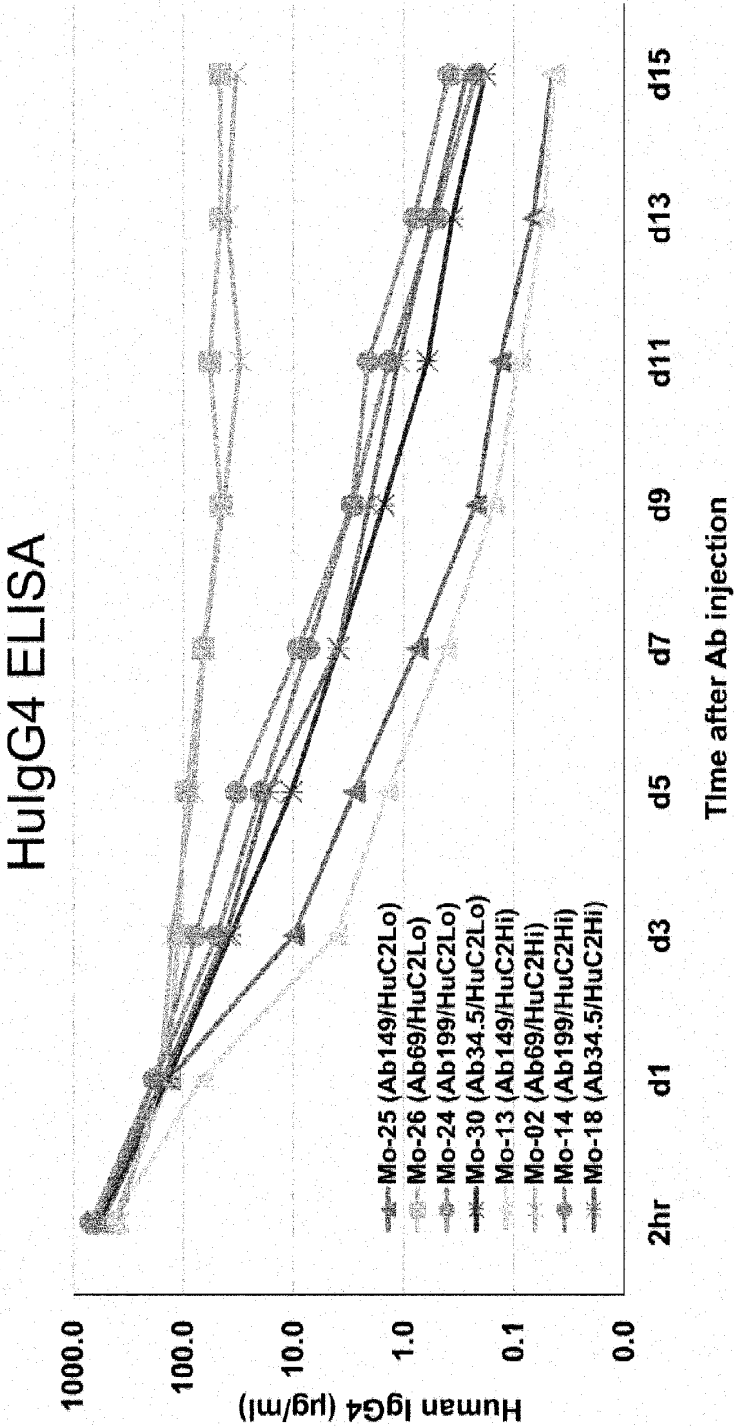


FIG. 29B

	Human IgG4 (μg/ ml)	2hr	d1	d3	d5	d7	d9	d11	d13	d15
Lambda	Mo-25 (Ab149/HuC2Lo)	551.5	134.1	10.0	2.8	0.8	0.2	0.1	0.1	0.0
Lambda	Mo-26 (Ab69/HuC2Lo)	432.1	137.4	111.3	94.1	66.0	45.6	57.5	45.8	46.6
Kappa	Mo-24 (Ab199/HuC2Lo)	688.6	184.4	77.1	32.8	9.1	2.9	2.1	0.8	0.4
Kappa	Mo-30 (Ab34.5/HuC2Lo)	598.8	138.9	37.2	10.5	3.9	1.5	0.6	0.4	0.2
Lambda	Mo-13 (Ab149/HuC2Hi)	439.5	67.8	4.1	1.4	0.4	0.2	0.1	0.1	0.0
Lambda	Mo-02 (Ab69/HuC2Hi)	391.0	160.9	127.3	81.5	64.8	43.3	30.6	40.1	33.3
Kappa	Mo-14 (Ab199/HuC2Hi)	630.3	181.6	49.6	19.7	7.3	2.9	1.4	0.5	0.2
Kappa	Mo-18 (Ab34.5/HuC2Hi)	632.8	152.7	41.2	17.0	4.0	2.1	1.1	0.6	0.3

FIG. 30

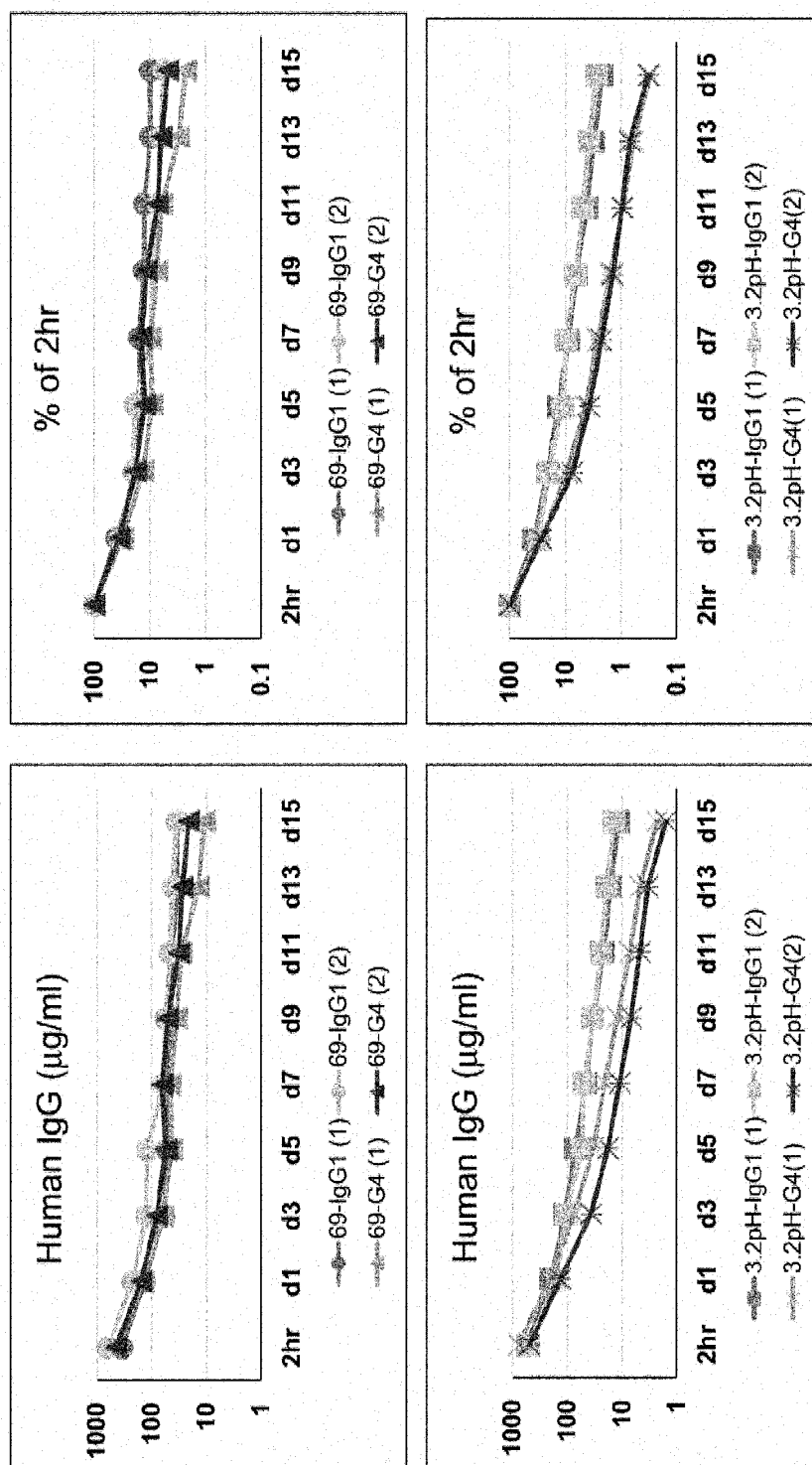


FIG. 31

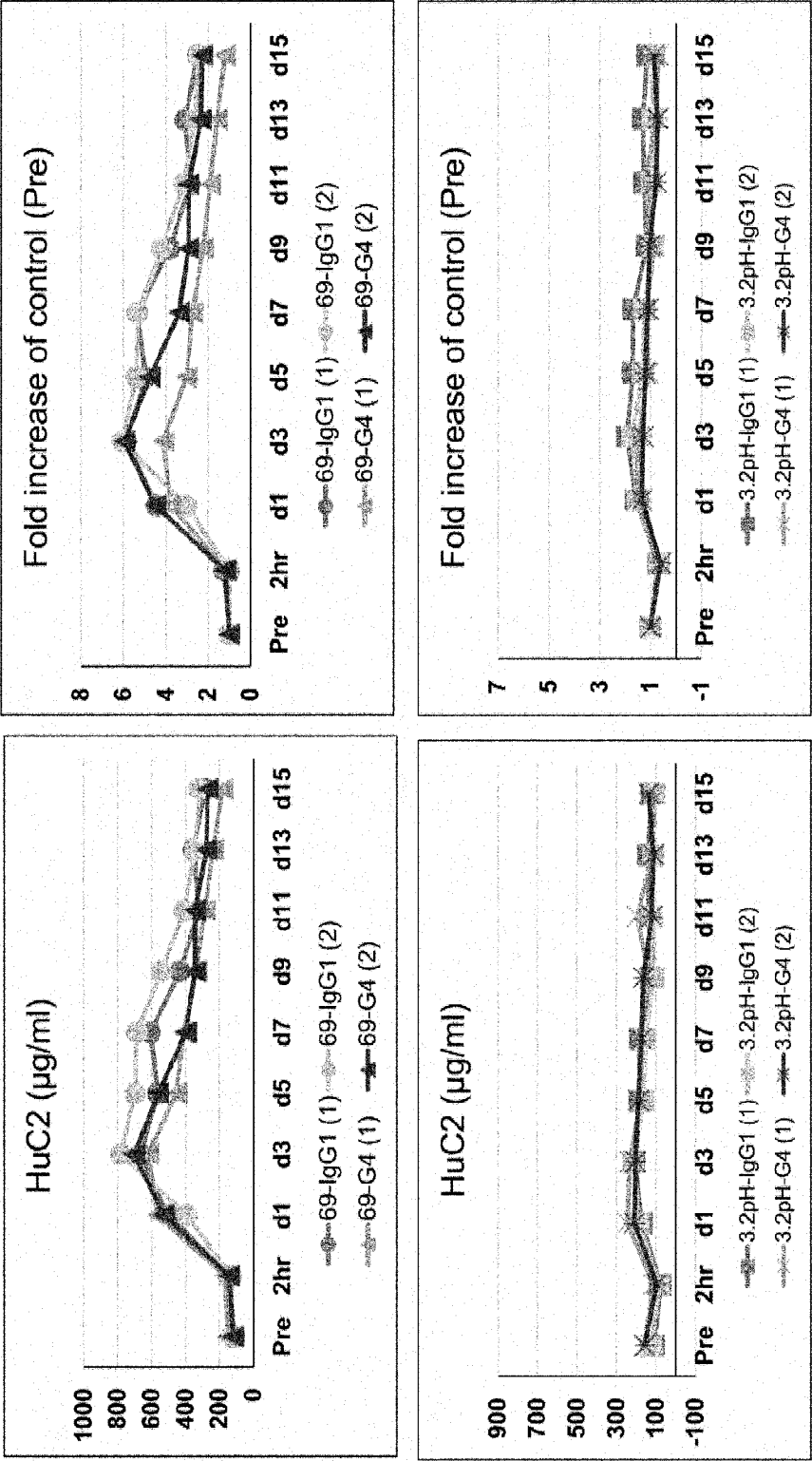


FIG. 32A

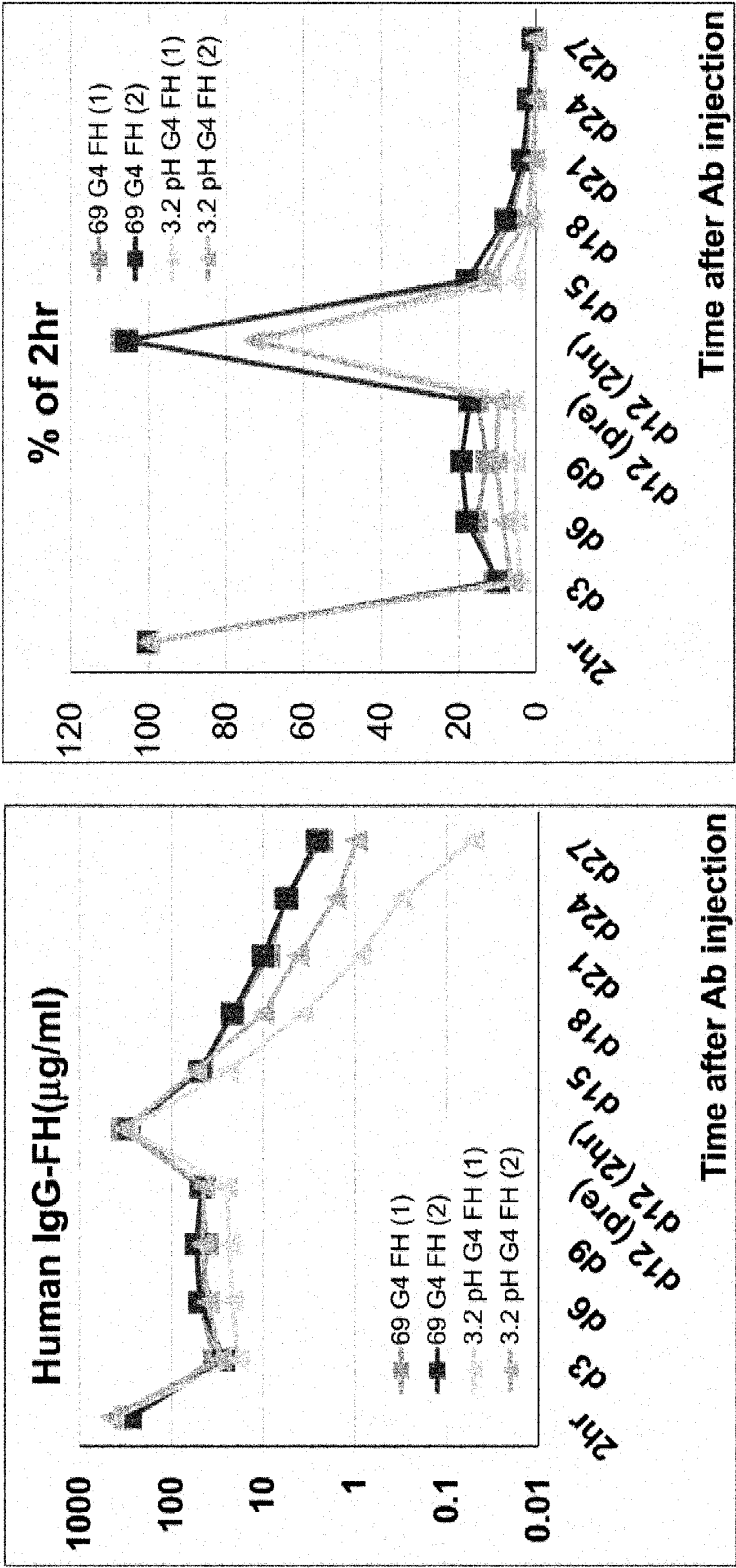


FIG. 32B

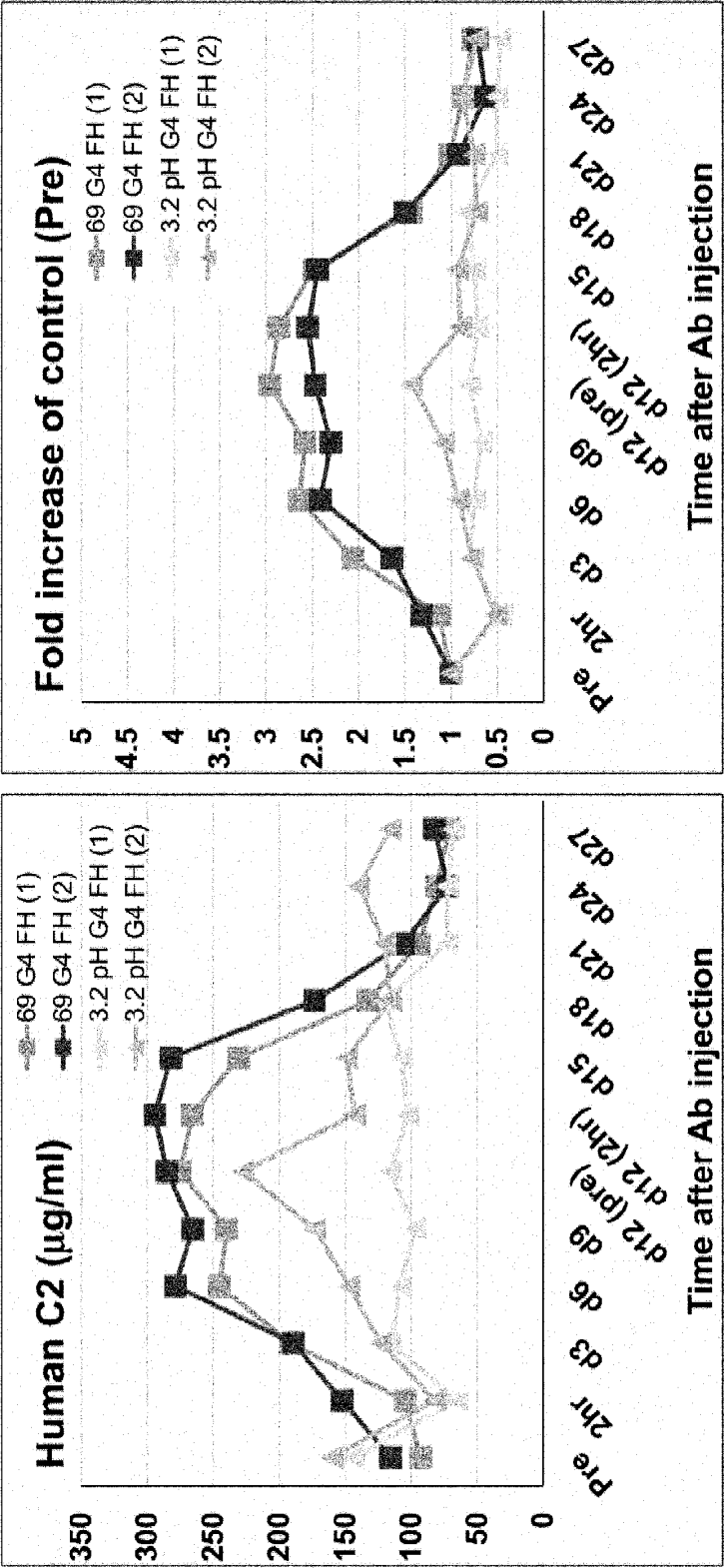


FIG. 33

Antibody	koff(1/s)	kon(1/Ms)	KD(M)
3.2pH	3.82E-05	2.52E+05	1.52E-10
Germilined 3.2pH	4.05E-05	2.94E+05	1.38E-10

FIG. 34

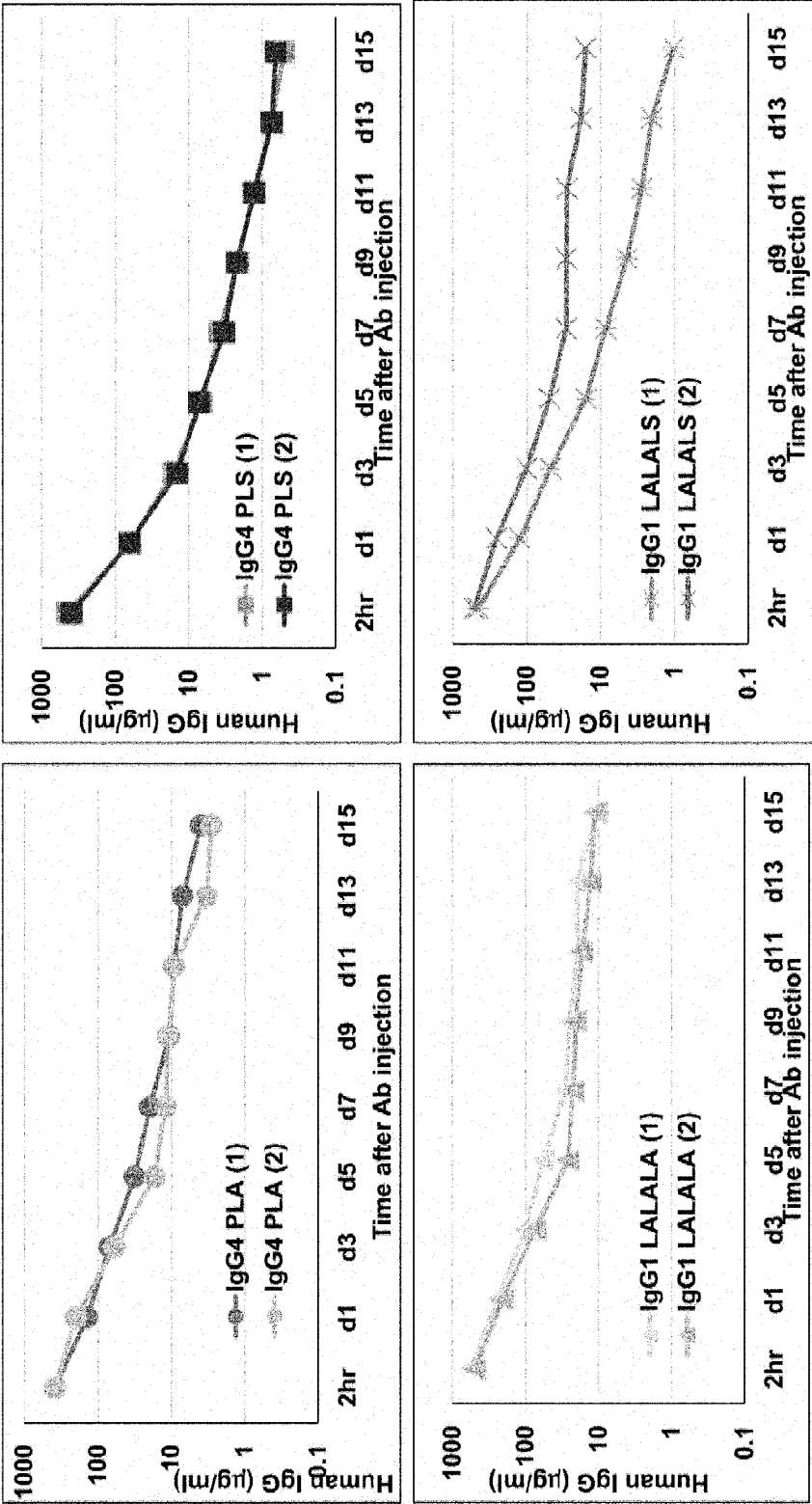


FIG. 35

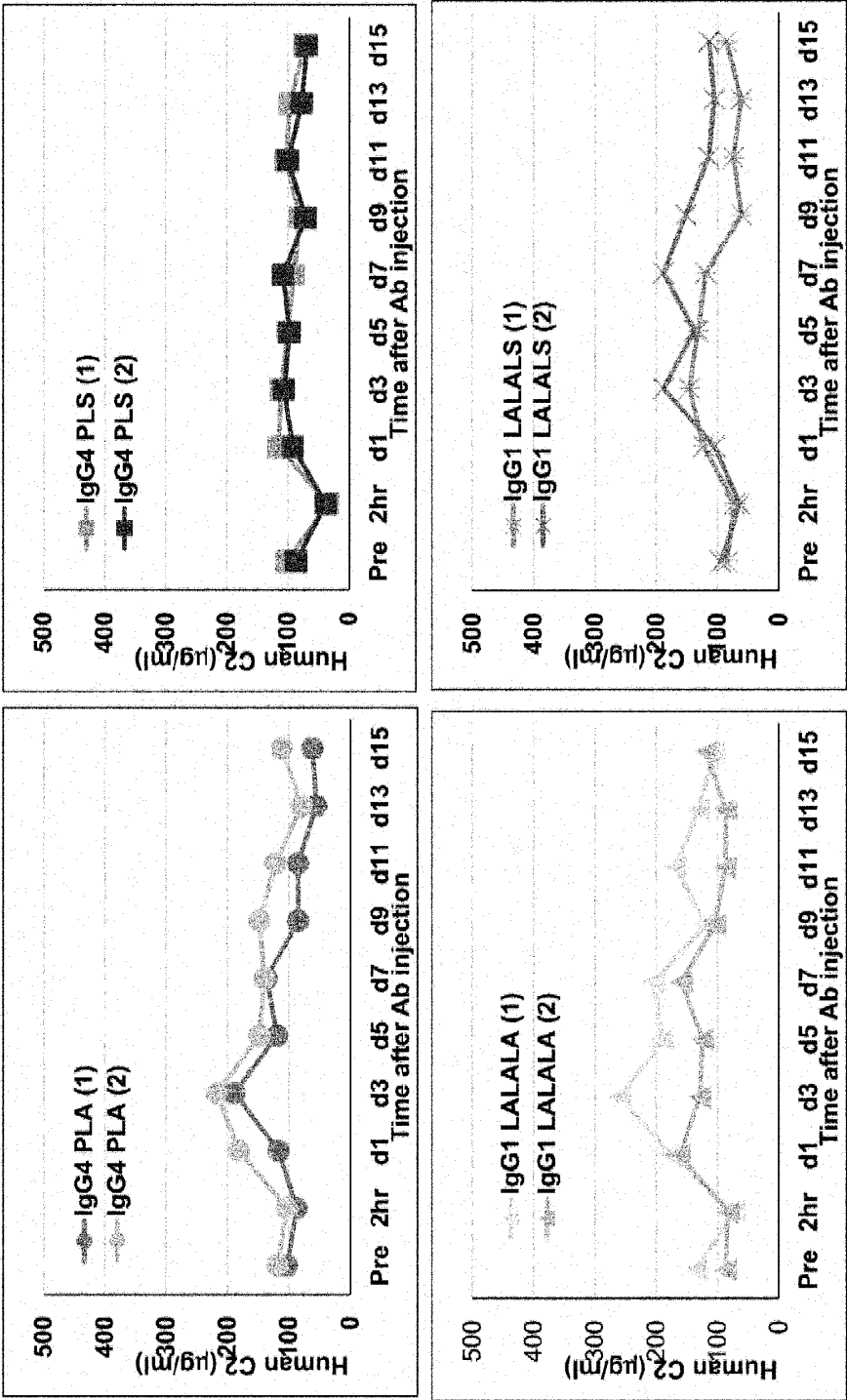


FIG. 36

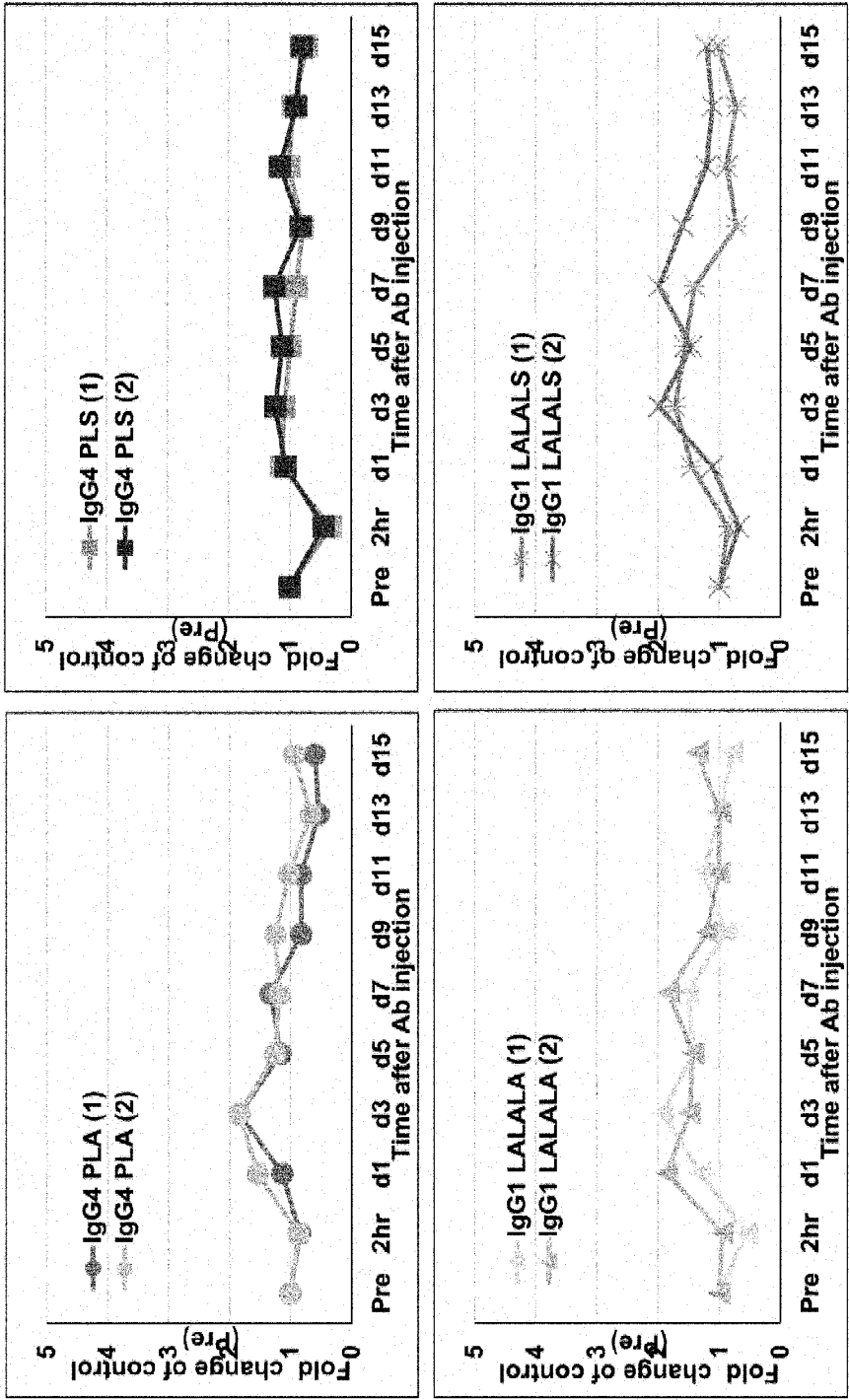


FIG. 37

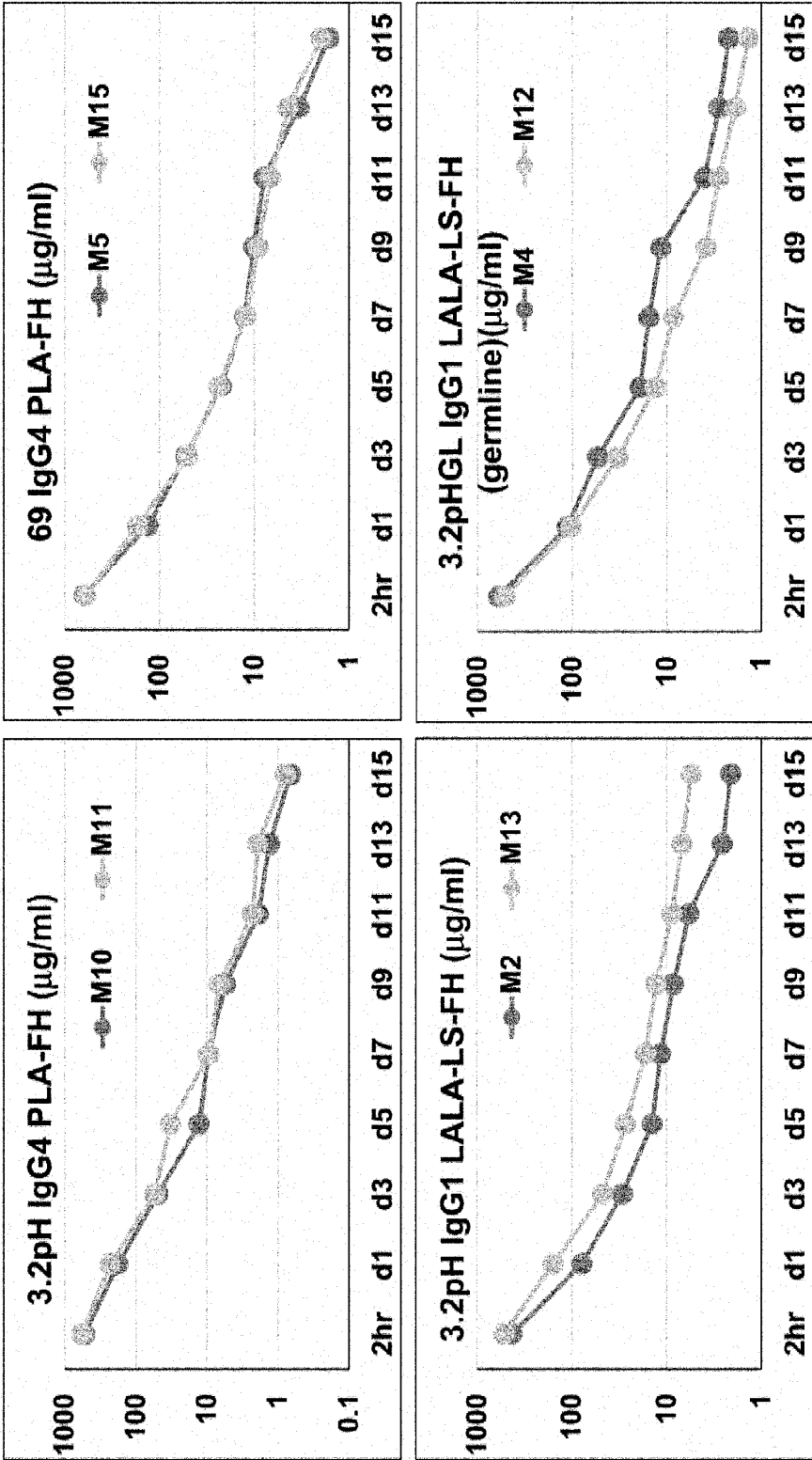


FIG. 38

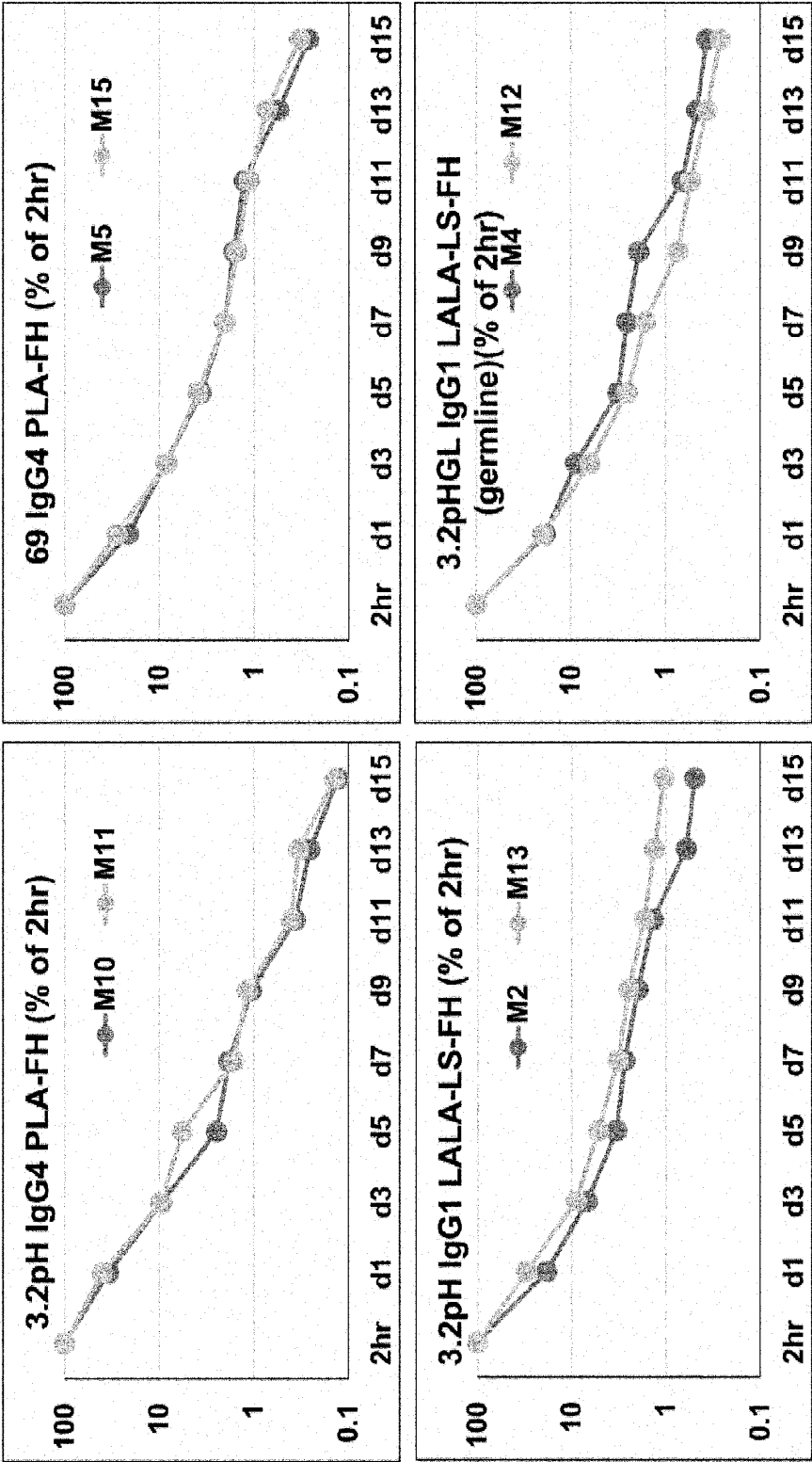


FIG. 39

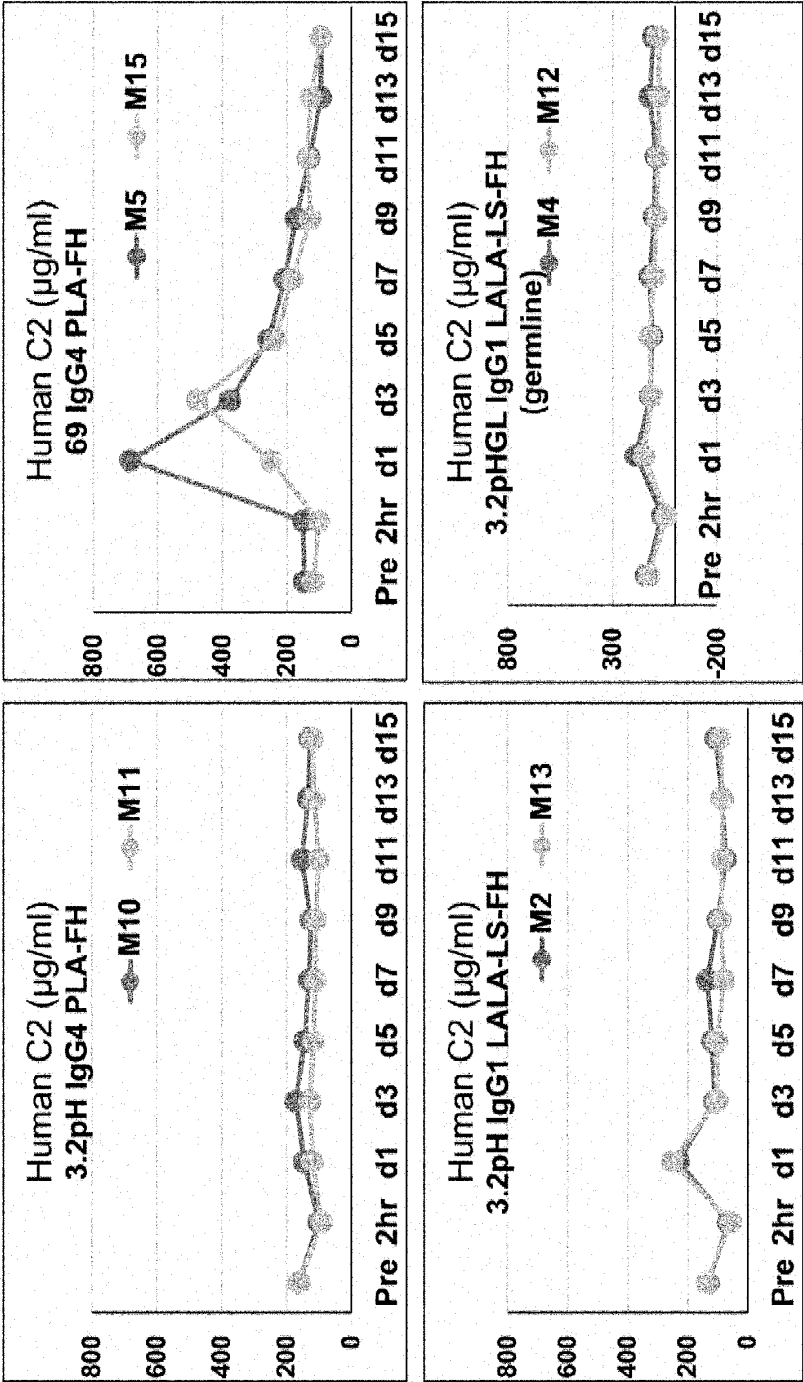


FIG. 40

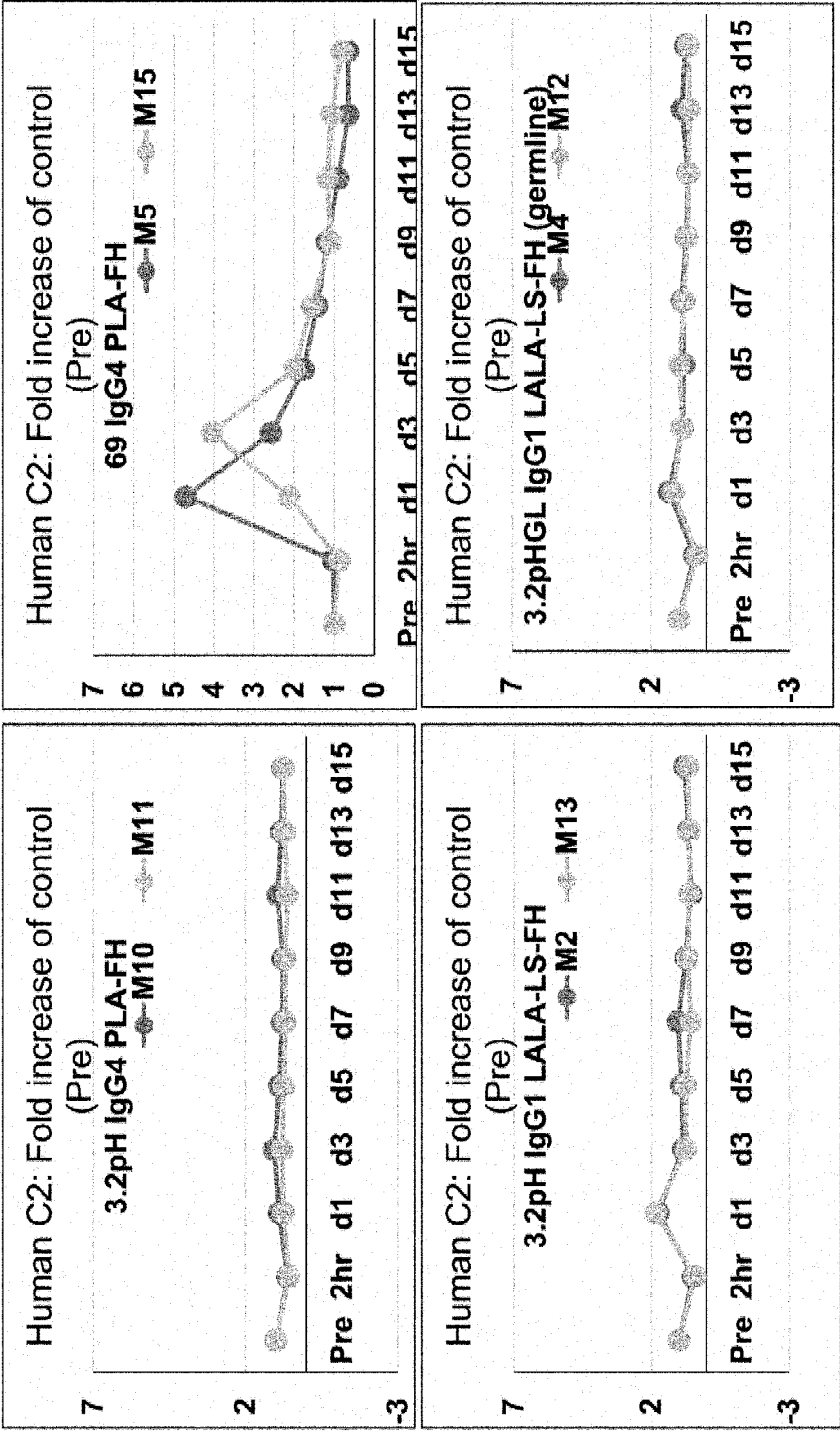


FIG. 41

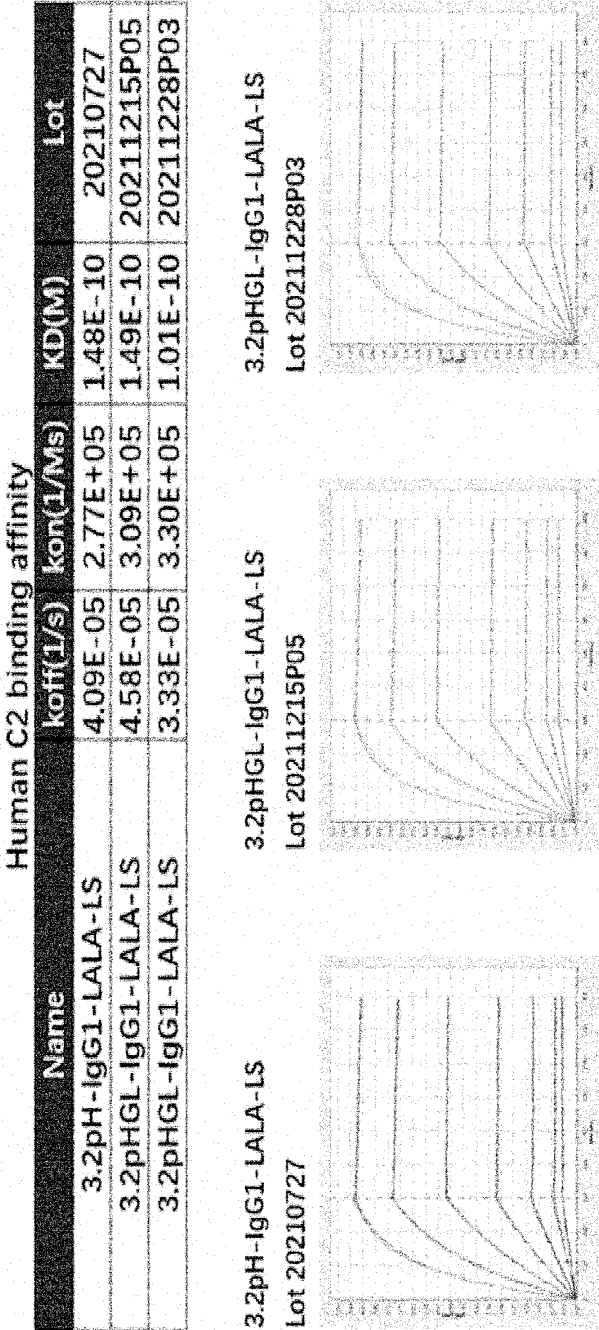


FIG. 42

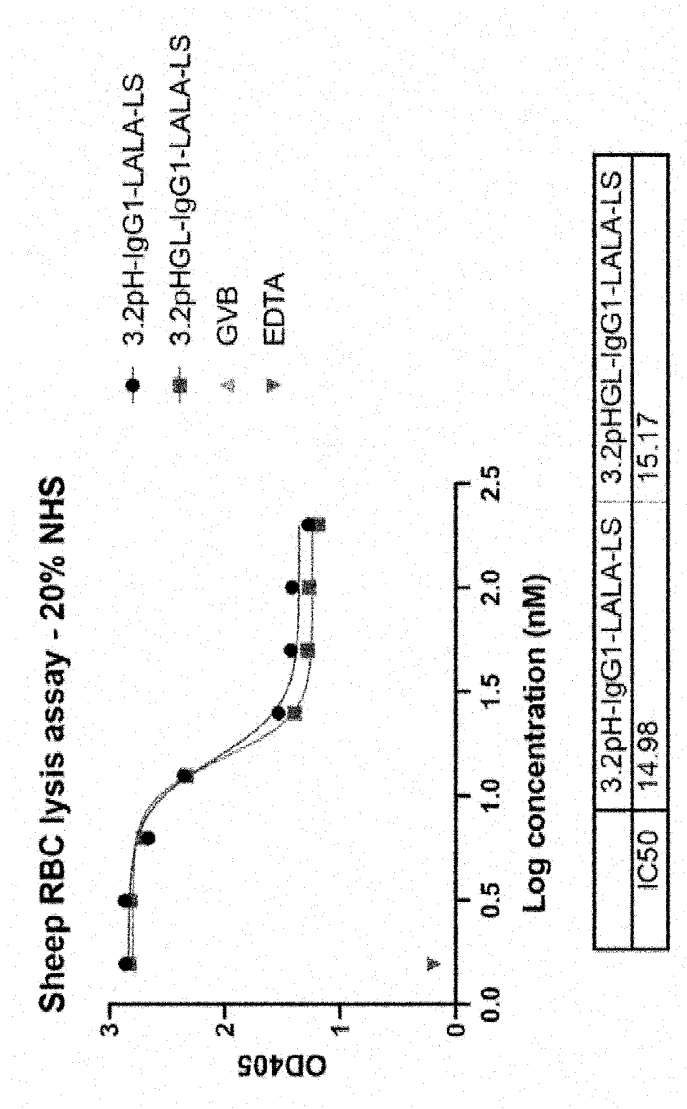


FIG. 43

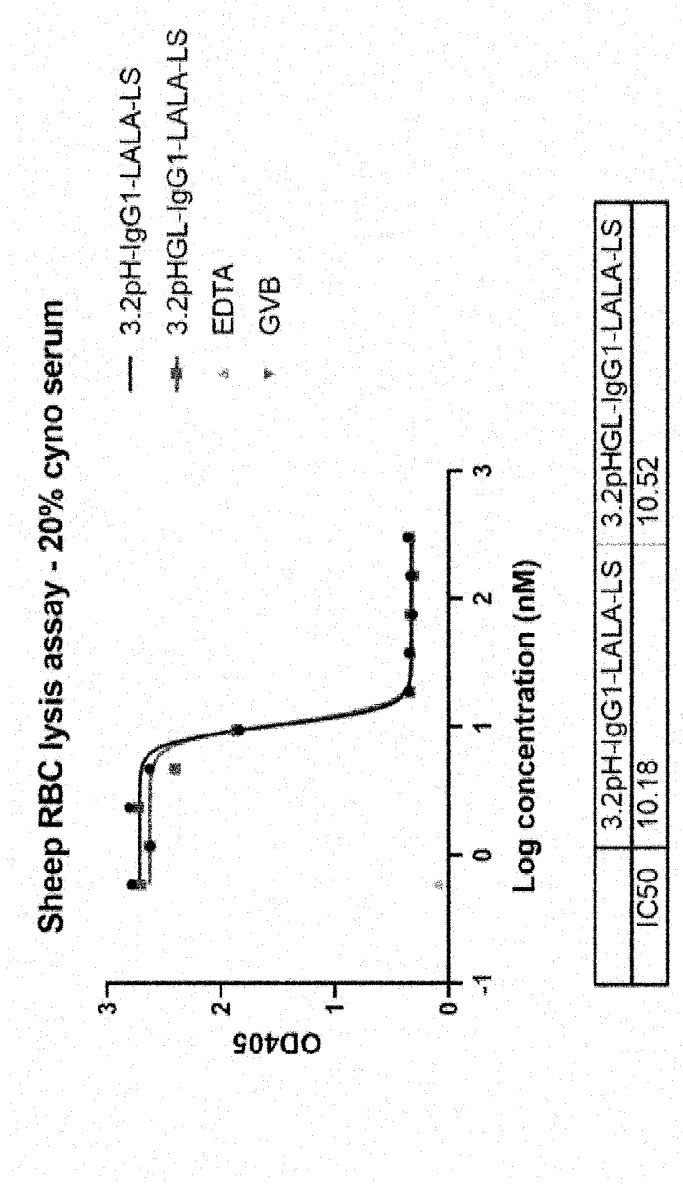


FIG. 44

Functional Parameters (in vitro assay)	3.2pH-FH-G4	3.2pH-FH-G1	3.2pHGL-FH-G1
Binding EC50 (pmol/L) human C2 cyno C2	15.12 ± 0.25 28.99 ± 0.54	13.09 ± 0.06 26.19 ± 0.13	11.90 ± 0.09 27.92 ± 0.81
CP_IC50 (nmol/L) 50% human serum Sheep RBC lysis 50% cyno serum	60.04 ± 2.25 32.97 ± 0.18	57.44 ± 0.87 31.72 ± 3.18	53.54 ± 7.33 30.17 ± 3.71
AP_IC50 (nmol/L) 50% human serum Rabbit RBC lysis 50% cyno serum	194.2 ± 1.13 17.11 ± 0.78	138.9 ± 13.1 14.48 ± 1.29	140.9 ± 9.19 15.71 ± 1.42

G1= I gG1 - LALA- LS
G4= I gG4- PLA