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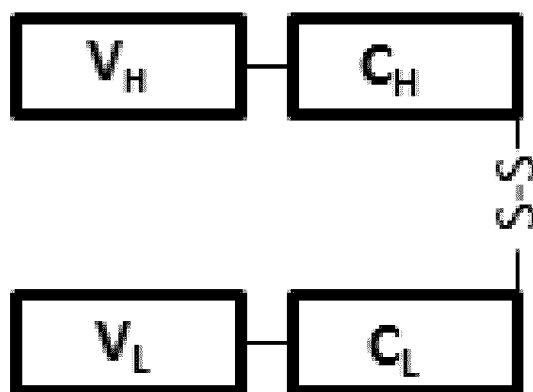


FIG. 1

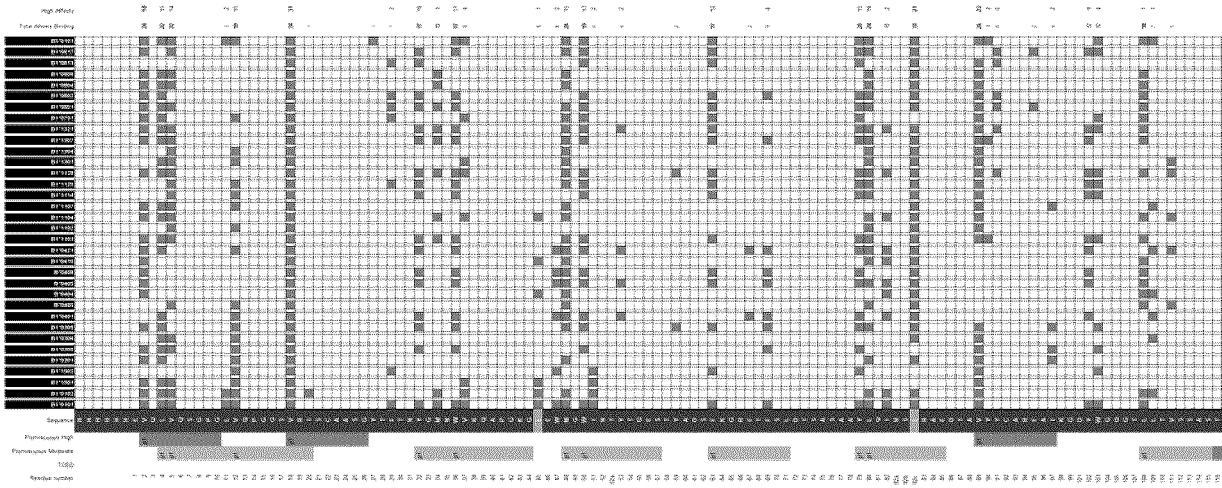


FIG. 2

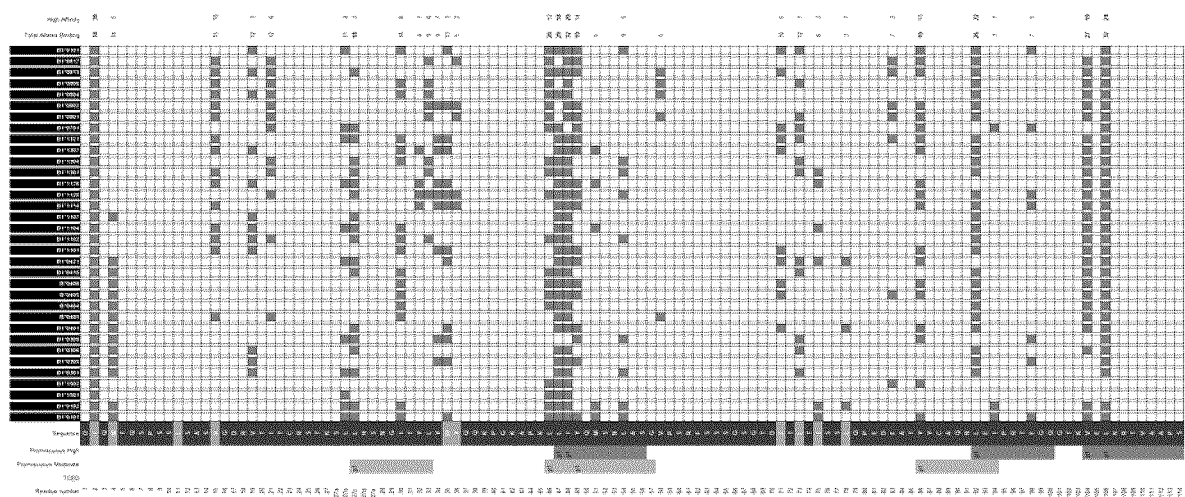


FIG. 4

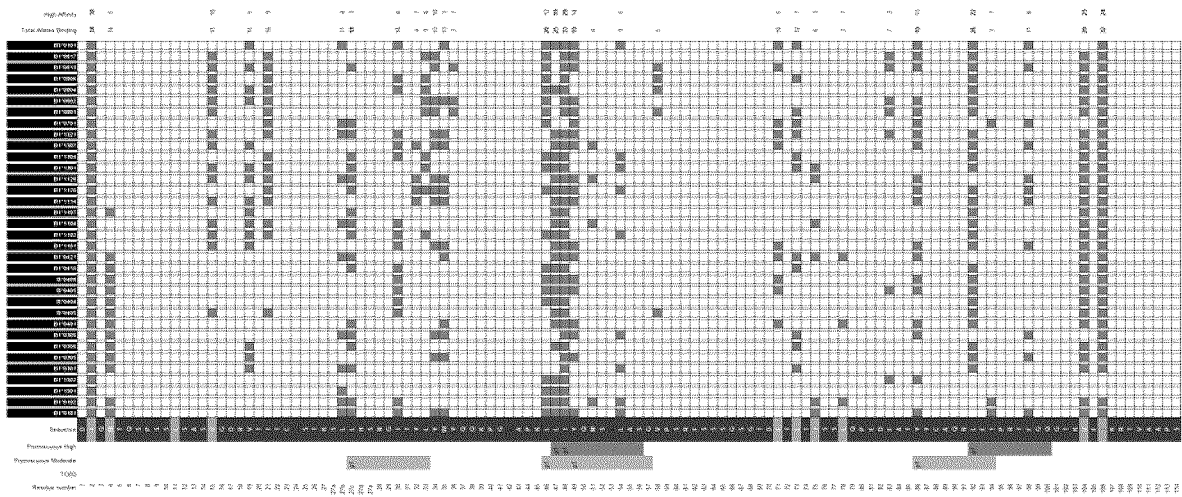


FIG. 5

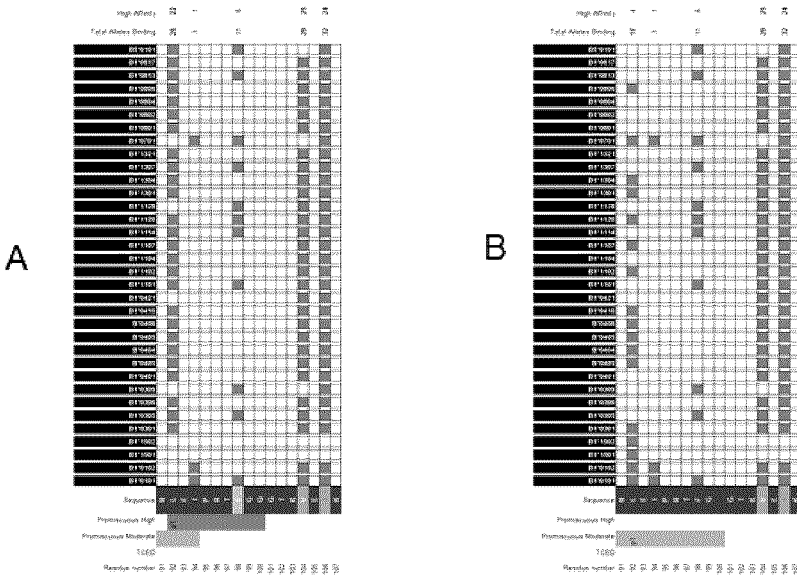


FIG. 6

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Fold Increase (Mean $\pm$ S.E.)			
	Conc. (ng/mL)	Cal-27	A-375
VB5-845-DI	7.8125	20.815 $\pm$ 0.0938	0.939 $\pm$ 0.00832
	31.25	64.363 $\pm$ 0.579	0.902 $\pm$ 0.0446
	125	204.543 $\pm$ 6.437	0.987 $\pm$ 0.0129
VB5-845 WT	7.8125	39.796 $\pm$ 1.253	0.940 $\pm$ 0.0416
	31.25	112.918 $\pm$ 0.509	0.961 $\pm$ 0.00454
	125	314.829 $\pm$ 1.416	0.978 $\pm$ 0.0129

FIG. 7

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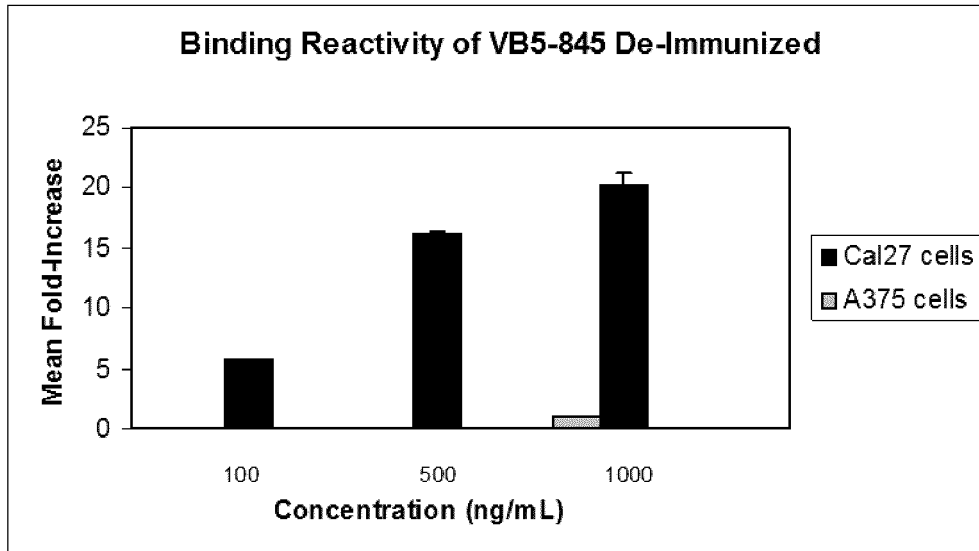


FIG. 8

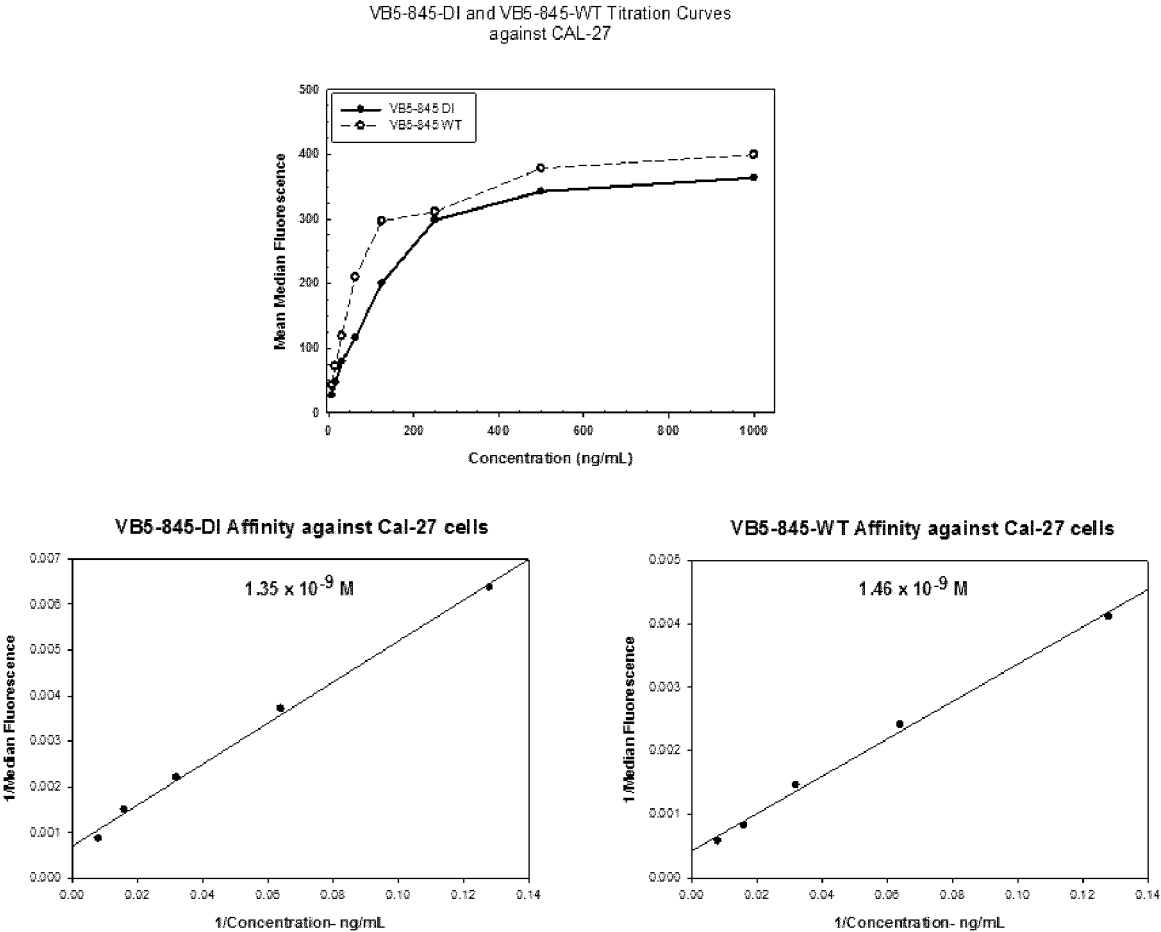


FIG. 9

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VB6-845 competition with VB5-845

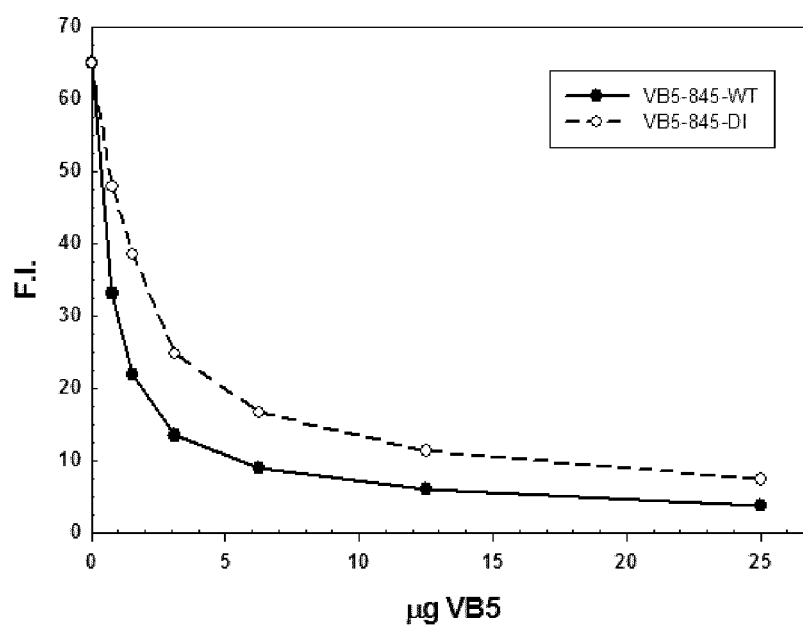


FIG. 10

GAA TTC CTG CAG GTC TAT GGA ACG ATA AAT GCC CAT GAA AAT TCT ATT TCA AGG
EcoRI

AGA CAG TCA TA ATG AAA TAC CTATTG CCT ACG GCA GCC GCT GGA TTG TTA TTA
M K Y L L P T A A A G L L L
|----- PeIB Leader Sequence -----|

CTC GCT GCC CAA CCA GCG ATG GCG GAA GTA CAG CTG GTC gaa TCC GGT ggt GGT
L A A Q P A M A E V Q L V E S G G G
-----||----- V_H Start

1 5 10
CTG GTT CAG CCG GGT GGT AGC ctg CGT ctg AGC TGC GCG GCG AGC GGT TAC
L V Q P G G S L R L S C A A S G Y
15 20 25

ACCTTC ACC ggg TAC GGT ATG AAC TGG GTT ggt CAG GCT CCG GGT AAA GGT TTG GAA
T F T A Y G M N W V R Q A P G K G L E
30 CDR 1 35 40 45

TGG ATG GGT TGG ATC AAC ACC TAT ACC GGT GAG TCT ACC TAC GCT GAT AGC gtt AAA
W M G W I N T Y T G E S T Y A D S V K
50 CDR 2 55 60

GGC CGT TTC ACC atc AGC got GAC ACT TCT aaa aac acc GCG TAC CTG CAG atg AAC
G R F T I S A D T S K N I A Y L Q M N
65 70 75 80 82a

TCT CTG CGT GCT GAG GAC ACT GCG GTT TAC TAC TGC GCT CGT TTC GCG ATC AAA GGT
S L R A E D T A V Y Y C A R F A I K G
82b 82c 85 90 CDR3 95

GAC TAT TGG GGT CAG GGT ACT CTG gtt ACC GTT AGC AGC GCT AGC ACT AAG GGC CCG
D Y W G Q G T L V T V S S A S T K G P
V_H End -----||----- C_H Start

101 105 110

TCC GTT TTC CCA CTG GCT CCG TCT TCT AAA AGC ACT TCT GGT GGT ACC GCG GCT CTG
S V F P L A P S S K S T S G G T A A L

GGT TGC CTT GTT AAA GAC TAC TTC CCT GAA CCG GTC ACC GTT AGC TGG AAC TCC GGT
G C L V K D Y F P E P V T V S W N S G

FIG. 11

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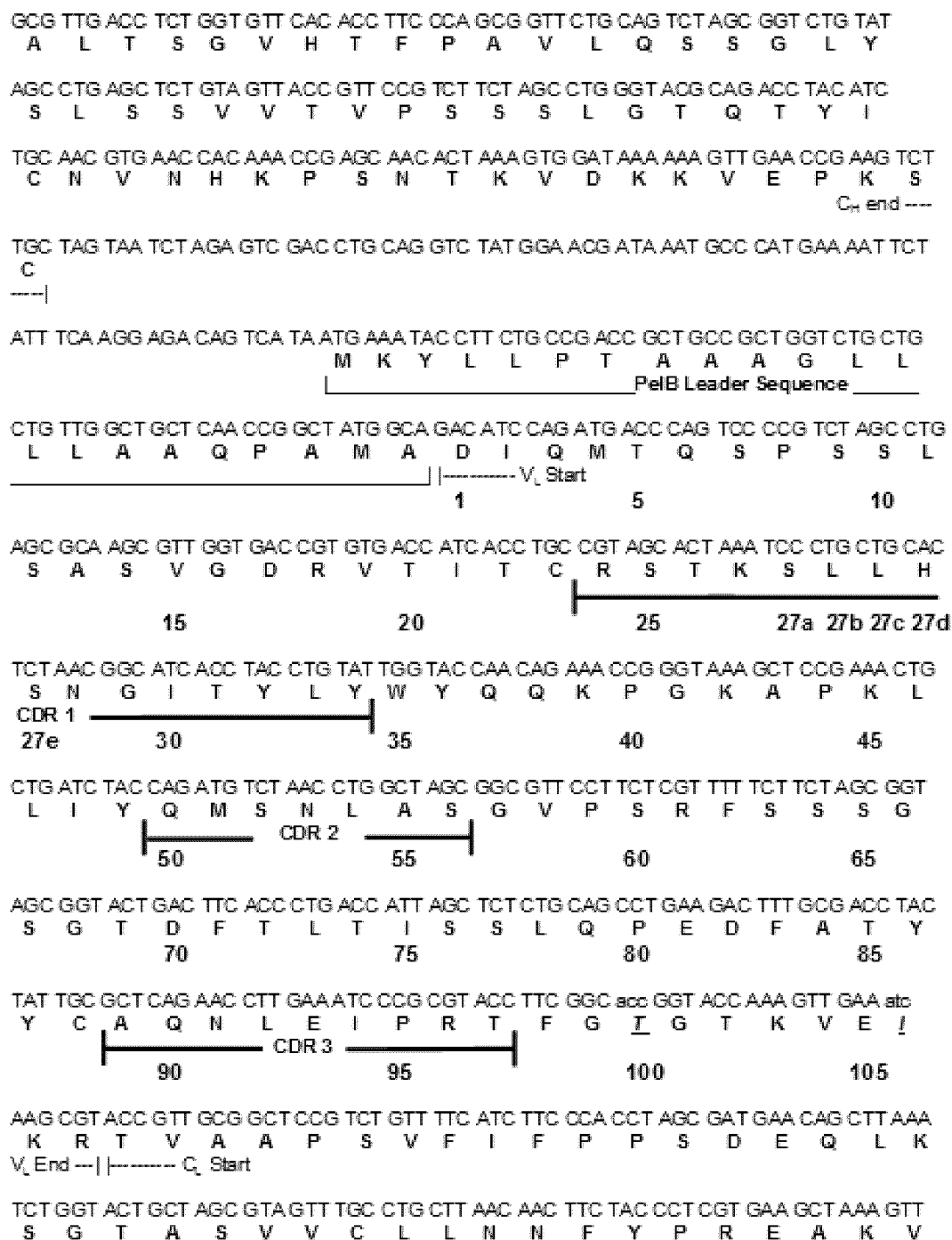


FIG. 11 continued

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CAG TGG AAA GTT GAC AAC GCT CTG CAG TCT GGT AAC TCT CAG GAA TCT GTG ACC GAA
Q W K V D N A L Q S G N S Q E S V T E

CAG GAT AGC AAA GAT AGC ACC TAT AGC CTG TCT AGC ACC CTG ACC CTT AGC AAG GCG
Q D S K D S T Y S L S S T L T L S K A

GAC TAT GAA AAA CAC AAA GTT TAC GCT TGC GAG GTG ACC CAC CAA GGT CTG TCT TCT CCG
D Y E K H K V Y A C E V T H Q G L S S P

GTG ACT AAATCC TTT AAC CGT GGC GAATGC TAG TGA CTC GAG
V T K S F N R G E C *XhoI*

C_LEnd -----|

FIG. 11 continued

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
V _H -WT	E	V	Q	L	V	Q	S	G	P	G	L	V	Q	P	G	G	S	V	R	I
V _H - delImmunized	E	V	Q	L	V	<u>E</u>	S	G	<u>G</u>	G	L	V	Q	P	G	G	S	<u>L</u>	R	<u>L</u>
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
V _H -WT	S	C	A	A	S	G	Y	T	F	T	N	Y	G	M	N	W	V	K	Q	A
V _H - delImmunized	S	C	A	A	S	G	Y	T	F	T	<u>A</u>	Y	G	M	N	W	V	<u>R</u>	Q	A
	41	42	43	44	45	46	47	48	49	50	51	52	52a	53	54	55	56	57	58	59
V _H -WT	P	G	K	G	L	E	W	M	G	W	I	N	T	Y	T	G	E	S	T	Y
V _H - delImmunized	P	G	K	G	L	E	W	M	G	W	I	N	T	Y	T	G	E	S	T	Y
	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
V _H -WT	A	D	S	F	K	G	R	F	T	F	S	L	D	T	S	A	S	A	A	Y
V _H - delImmunized	A	D	S	<u>V</u>	K	G	R	F	T	<u>I</u>	S	<u>A</u>	D	T	S	<u>K</u>	<u>N</u>	<u>I</u>	A	Y
	80	81	82	82a	82b	82c	83	84	85	86	87	88	89	90	91	92	93	94	95	96
V _H -WT	L	Q	I	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A	R	F	A
V _H - delImmunized	L	Q	<u>M</u>	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A	R	F	A
	97	98	99	101	102	103	104	105	106	107	108	109	110	111	112	113				
V _H -WT	I	K	G	D	Y	W	G	Q	G	T	L	L	T	V	S	S				
V _H - delImmunized	I	K	G	D	Y	W	G	Q	G	T	L	<u>V</u>	T	V	S	S				

FIG. 12

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
V _L -WT	D	I	Q	M	T	Q	S	P	S	S	L	S	A	S	V
V _L - deimmunized	D	I	Q	M	T	Q	S	P	S	S	L	S	A	S	V
	16	17	18	19	20	21	22	23	24	25	26	27	27a	27b	27c
V _L -WT	G	D	R	V	T	I	T	C	R	S	T	K	S	L	L
V _L - deimmunized	G	D	R	V	T	I	T	C	R	S	T	K	S	L	L
	27d	27e	28	29	30	31	32	33	34	35	36	37	38	39	40
V _L -WT	H	S	N	G	I	T	Y	L	Y	W	Y	Q	Q	K	P
V _L - deimmunized	H	S	N	G	I	T	Y	L	Y	W	Y	Q	Q	K	P
	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
V _L -WT	G	K	A	P	K	L	L	I	Y	Q	M	S	N	L	A
V _L - deimmunized	G	K	A	P	K	L	L	I	Y	Q	M	S	N	L	A
	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
V _L -WT	S	G	V	P	S	R	F	S	S	S	G	S	G	T	D
V _L - deimmunized	S	G	V	P	S	R	F	S	S	S	G	S	G	T	D
	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
V _L -WT	F	T	L	T	I	S	S	L	Q	P	E	D	F	A	T
V _L - deimmunized	F	T	L	T	I	S	S	L	Q	P	E	D	F	A	T
	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
V _L -WT	Y	Y	C	A	Q	N	L	E	I	P	R	T	F	G	Q
V _L - deimmunized	Y	Y	C	A	Q	N	L	E	I	P	R	T	F	G	<u>I</u>
	101	102	103	104	105	106	107	108							
V _L -WT	G	T	K	V	E	L	K	R							
V _L - deimmunized	G	T	K	V	E	<u>I</u>	K	R							

FIG. 12 continued

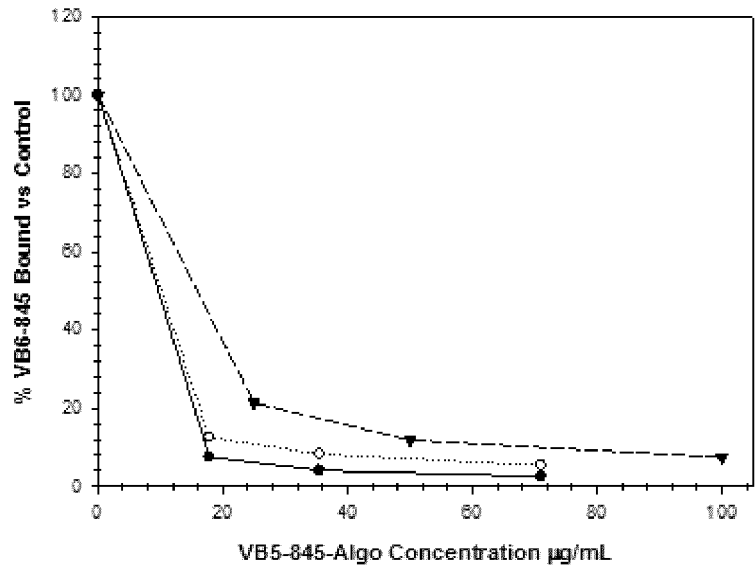


FIG. 13

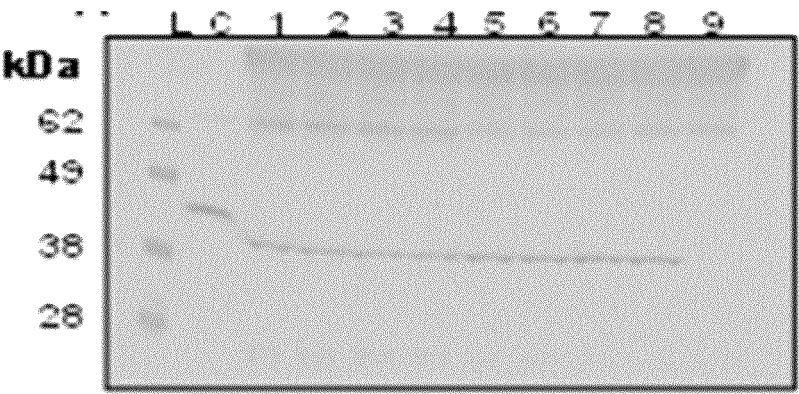


FIG. 14

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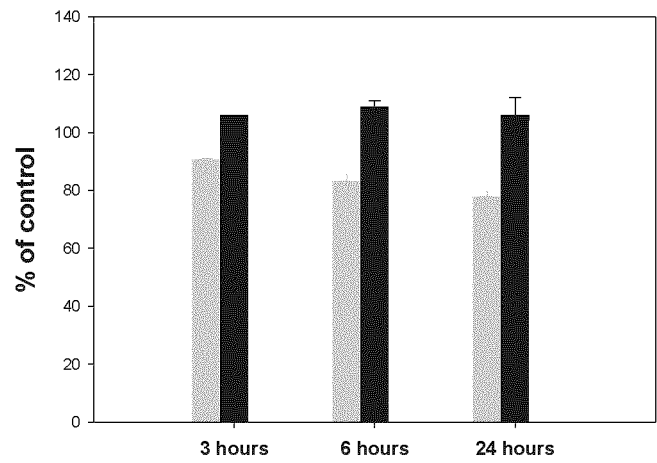


FIG. 15

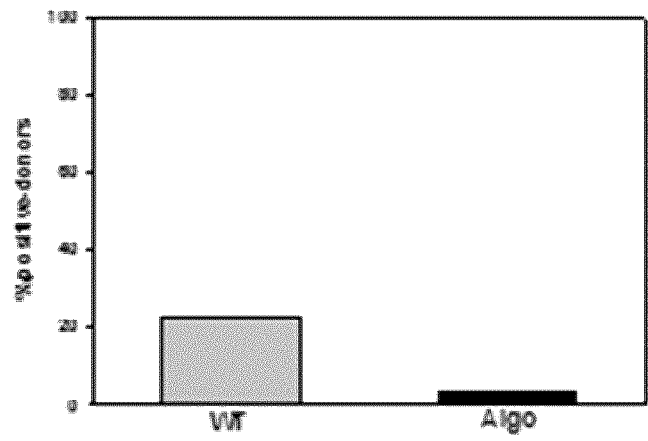


FIG. 16

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
V _H -MOCB	E	V	Q	L	V	Q	S	G	P	G	L	V	Q	P	G	G	S	V	R	I
V _H -Algo	E	V	Q	L	Q	Q	S	G	P	G	L	V	Q	P	G	G	S	V	R	I
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
V _H -MOCB	S	C	A	A	S	G	Y	T	F	T	N	Y	G	M	N	W	V	K	Q	A
V _H -Algo	S	C	A	A	S	G	Y	T	F	T	A	Y	G	M	N	W	V	R	Q	A
	41	42	43	44	45	46	47	48	49	50	51	52	52a	53	54	55	56	57	58	59
V _H -MOCB	P	G	K	G	L	E	W	M	G	W	I	N	T	Y	T	G	E	S	T	Y
V _H -Algo	P	G	K	G	L	E	W	M	G	W	I	N	T	Y	T	G	E	S	T	Y
	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
V _H -MOCB	A	D	S	F	K	G	R	F	T	F	S	L	D	T	S	A	S	A	A	Y
V _H -Algo	A	D	S	F	K	G	R	F	E	F	S	L	D	T	H	N	S	S	A	Y
	80	81	82	82a	82b	82c	83	84	85	86	87	88	89	90	91	92	93	94	95	96
V _H -MOCB	L	Q	I	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A	R	F	A
V _H -Algo	L	Q	I	Q	S	L	R	E	E	D	T	A	V	Y	Y	C	A	R	F	A
	97	98	99	101	102	103	104	105	106	107	108	109	110	111	112	113				
V _H -MOCB	I	K	G	D	Y	W	G	Q	G	T	L	L	T	V	S	S				
V _H -Algo	I	K	G	D	Y	W	G	Q	G	T	L	V	T	V	S	S				

FIG. 17

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
V _L -MOCB	D	I	Q	M	T	Q	S	P	S	S	L	S	A	S	V
V _L -Algo	D	I	Q	M	T	Q	S	P	S	S	L	S	A	S	V
	16	17	18	19	20	21	22	23	24	25	26	27	27a	27b	27c
V _L -MOCB	G	D	R	V	T	I	T	C	R	S	T	K	S	L	L
V _L -Algo	G	D	R	V	T	I	T	C	K	S	T	K	S	L	L
	27d	27e	28	29	30	31	32	33	34	35	36	37	38	39	40
V _L -MOCB	H	S	N	G	I	T	Y	L	Y	W	Y	Q	Q	K	P
V _L -Algo	H	S	N	G	I	T	Y	L	Y	W	Y	Q	Q	K	P
	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
V _L -MOCB	G	K	A	P	K	L	L	I	Y	Q	M	S	N	L	A
V _L -Algo	G	S	A	P	K	L	L	I	Y	Q	M	S	H	L	A
	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
V _L -MOCB	S	G	V	P	S	R	F	S	S	S	G	S	G	T	D
V _L -Algo	S	G	V	P	S	R	F	S	S	S	G	S	G	T	D
	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
V _L -MOCB	F	T	L	T	I	S	S	L	Q	P	E	D	F	A	T
V _L -Algo	F	T	L	T	I	S	S	L	Q	P	E	D	F	A	T
	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
V _L -MOCB	Y	Y	C	A	Q	N	L	E	I	P	R	T	F	G	Q
V _L -Algo	Y	Y	C	A	Q	N	L	E	I	P	R	T	F	G	Q
	101	102	103	104	105	106	107	108							
V _L -MOCB	G	T	K	V	E	L	K	R							
V _L -Algo	G	T	K	V	E	I	K	R							

FIG. 17 continued