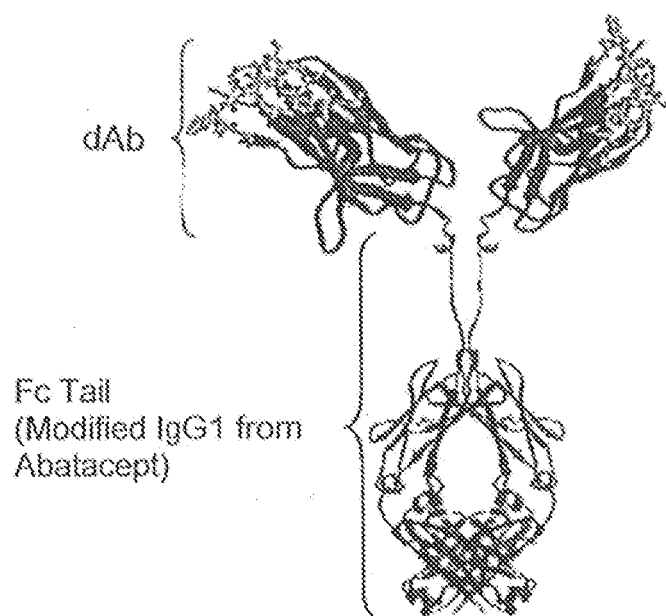


1/33

FIG. 1A

2/33

FIG. 1B

EVQLLESGGGLVQPGGSLRLSCAASGFTFNWELMGWARQAPGKGLEWVSGIEGPGDVITYYADSVKGRFTI
 SRD~~SK~~NTLYLQMNSLRAEDTAVYYCVKVGKDAKSDYRGQGTLVTVSSA~~ST~~EPKSS~~SD~~DKTHT~~SP~~PAPELL
 GG~~SS~~VFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSV
 LTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPS
 DIAVEWESNGQPENNYKTTTPPVLDSDGSFFLYSKLTVDKSRWQQGNV~~F~~SCVMHEALHNHYTQKSLSLSPGK

(MW=77,984 daltons)

dAb

LinkerModified IgG1 Fc from Abatacept (Cys→Ser; Pro→Ser)

3/33

FIG. 2**Fc**Domain antibody-AS-THTCPPCP...**CT-long**Domain antibody-AST-EPKSSDKTHTSPPSP ...**CT-short**Domain antibody-AS-THTSPPSP...**N297Qlong Fc**Domain antibody-AST-EPKSSDKTHTSPPSP...**N297Qshort Fc**Domain antibody-AS-THTSPPSP...**Osteonectin** signal peptide sequence:**MRAWIFLLCLAGRALA** ^ EVQLLES...(start of Domain antibody)

4/33

FIG. 3**BMS2h-572-633-CT-L2**

MRAWIFFLLCLAGRALA[^]EVQLLESGGGLVQPGGSLRLSCAASGFTTFNWELMGWARQAPGKG
LEWVSGIEGPGDVTYYADSVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCVKVGKDAKSD
YRGQGT¹LVTVSS²AST³EPKSSDKTHT⁴SPP⁵SPAPELLGG⁶SSVFLFPPKPKDTLMISRTPEVTCV
VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQY⁷NSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI
EKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTT
PPVLDSDGSFFLYSKLTVDKSRWQQGNV⁸VFSCSVMH⁹EALHNHYTQKSLSLSPGK

BMS2h-572-633-CT-S1

MRAWIFFLLCLAGRALA[^]EVQLLESGGGLVQPGGSLRLSCAASGFTTFNWELMGWARQAPGKG
LEWVSGIEGPGDVTYYADSVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCVKVGKDAKSD
YRGQGT¹LVTVSS²AST³HT⁴SPP⁵SPAPELLGG⁶SSVFLFPPKPKDTLMISRTPEVTCV
VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQY⁷NSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI
EKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTT
PPVLDSDGSFFLYSKLTVDKSRWQQGNV⁸VFSCSVMH⁹EALHNHYTQKSLSLSPGK

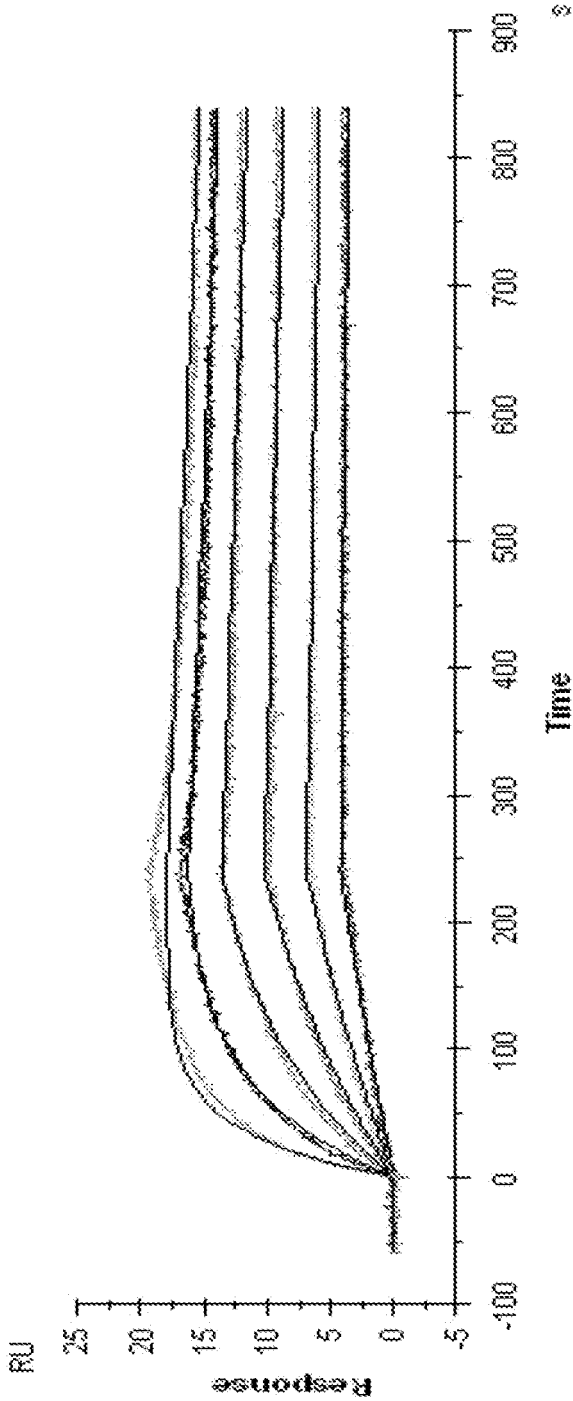
BMS2h-572-633-N297Q long Fc

MRAWIFFLLCLAGRALA[^]EVQLLESGGGLVQPGGSLRLSCAASGFTTFNWELMGWARQAPGKG
LEWVSGIEGPGDVTYYADSVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCVKVGKDAKSD
YRGQGT¹LVTVSS²AST³EPKSSDKTHT⁴CPP⁵CPAPELLGG⁶PSVFLFPPKPKDTLMISRTPEVTCV
VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQY⁷QSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI
EKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTT
PPVLDSDGSFFLYSKLTVDKSRWQQGNV⁸VFSCSVMH⁹EALHNHYTQKSLSLSPGK

BMS2h-572-633-N297Q short Fc

MRAWIFFLLCLAGRALA[^]EVQLLESGGGLVQPGGSLRLSCAASGFTTFNWELMGWARQAPGKG
LEWVSGIEGPGDVTYYADSVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCVKVGKDAKSD
YRGQGT¹LVTVSS²AST³HT⁴CPP⁵CPAPELLGG⁶PSVFLFPPKPKDTLMISRTPEVTCV
VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQY⁷QSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI
EKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTT
PPVLDSDGSFFLYSKLTVDKSRWQQGNV⁸VFSCSVMH⁹EALHNHYTQKSLSLSPGK

FIG. 4



6/33

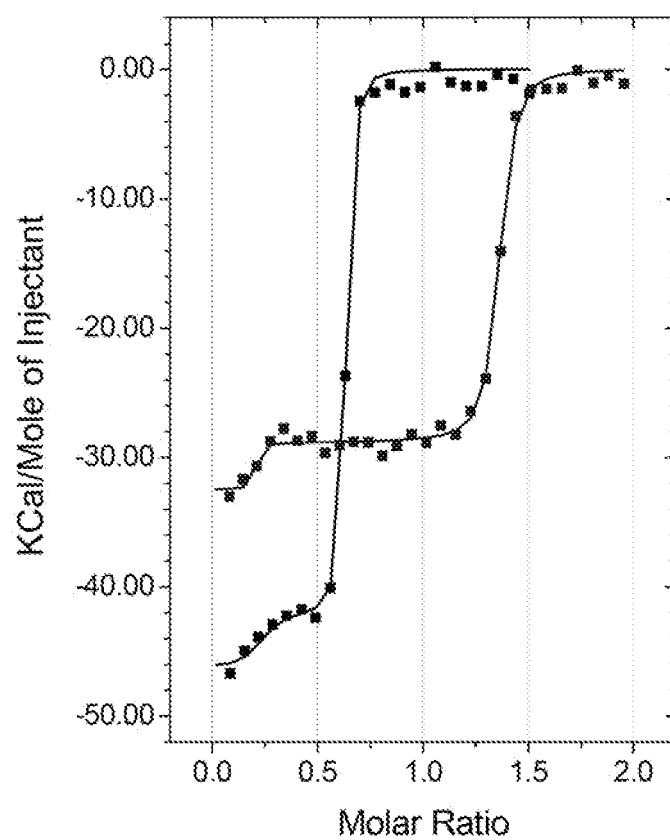
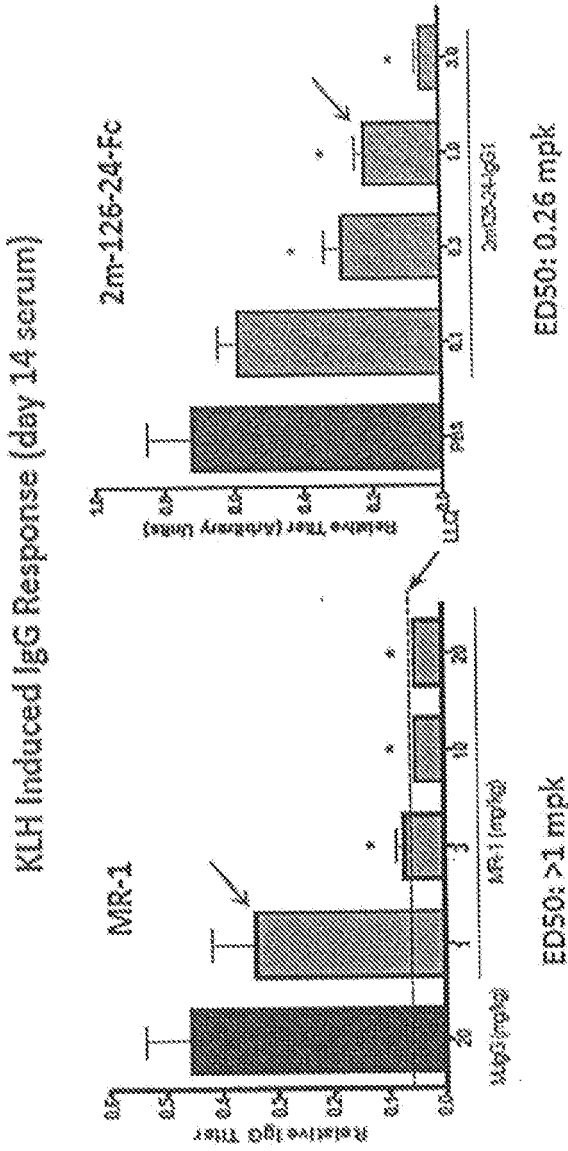
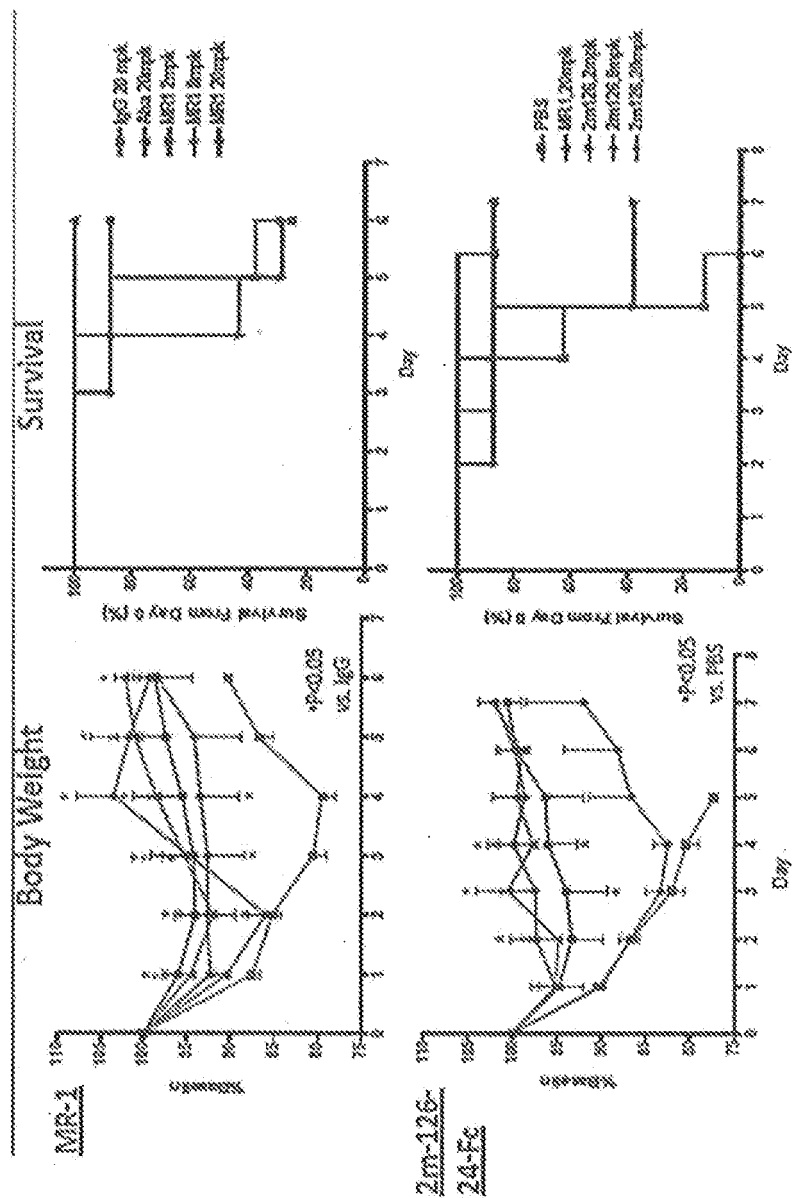
FIG. 5

FIG. 6



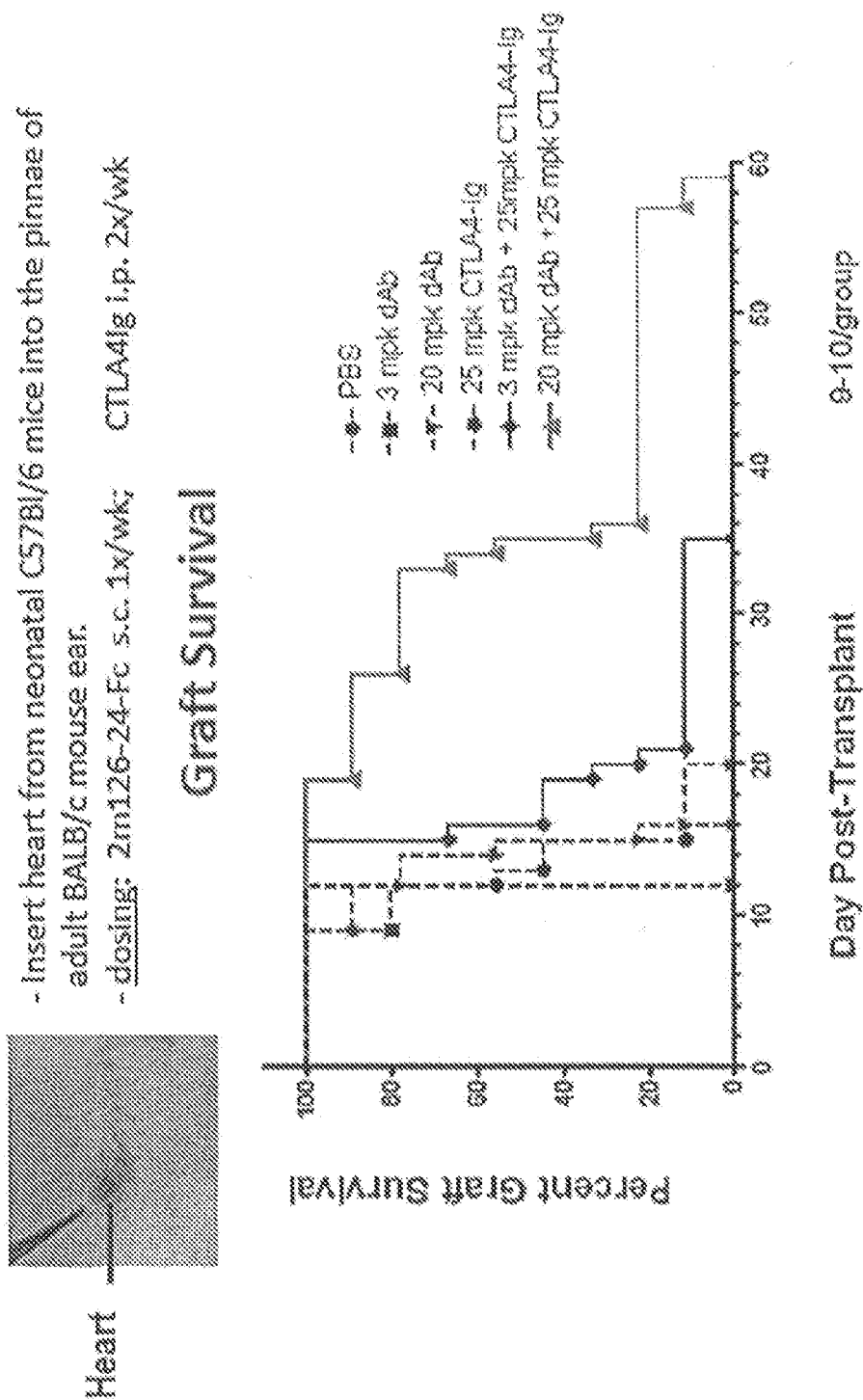
8/33

FIG. 7

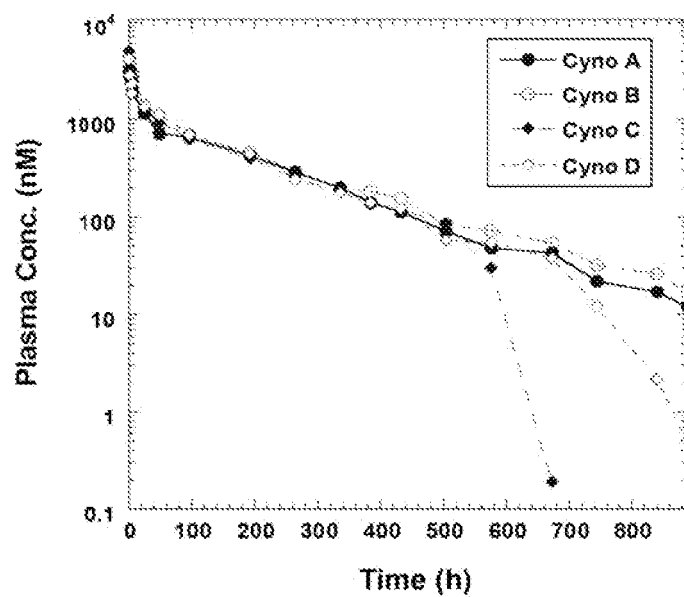
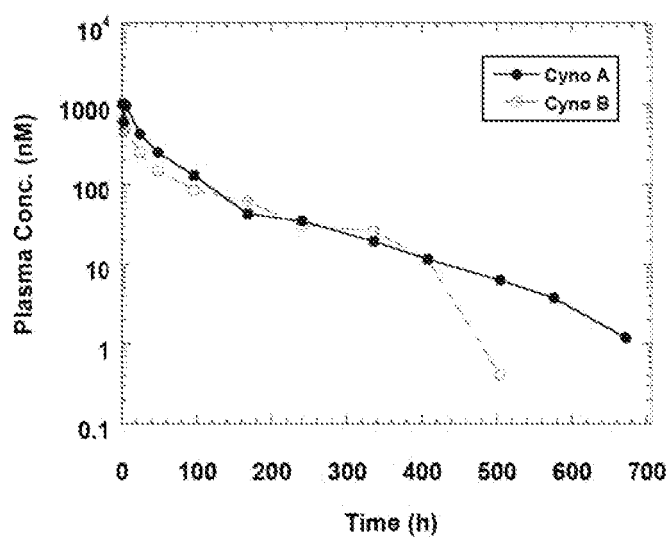


9/33

FIG. 8

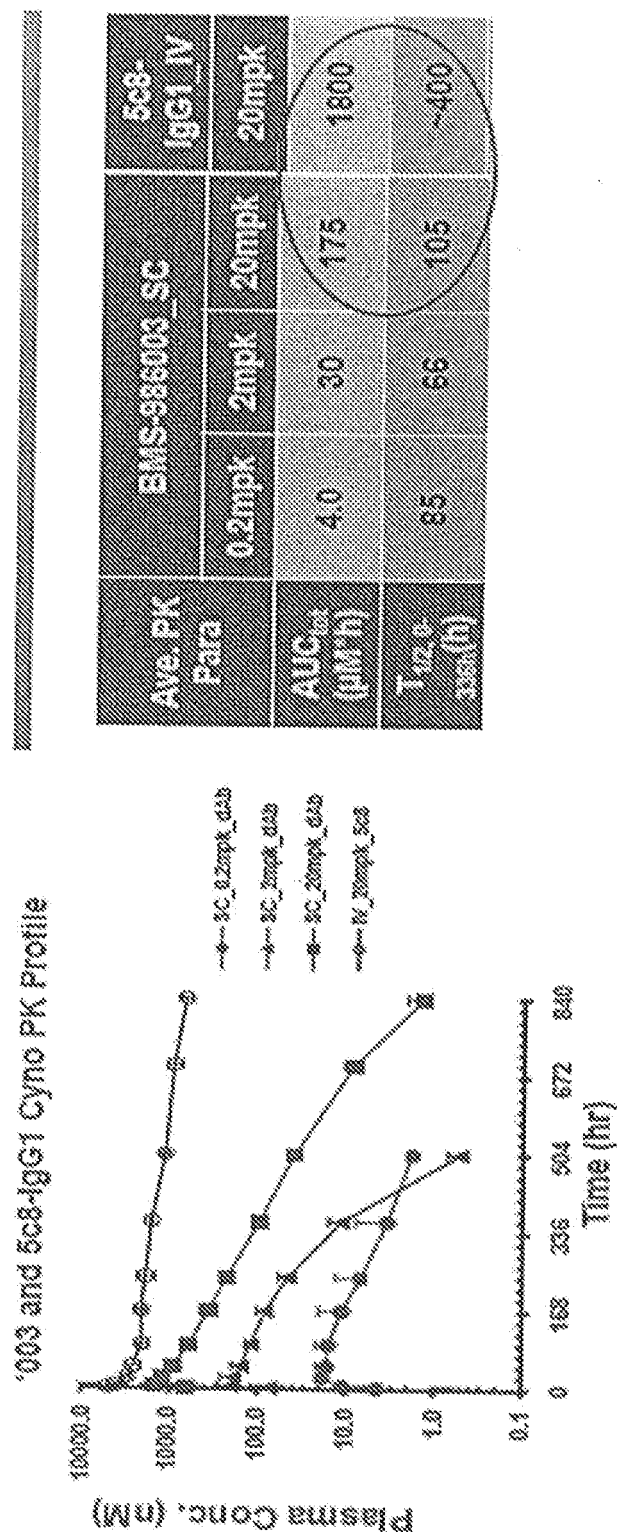


10/33

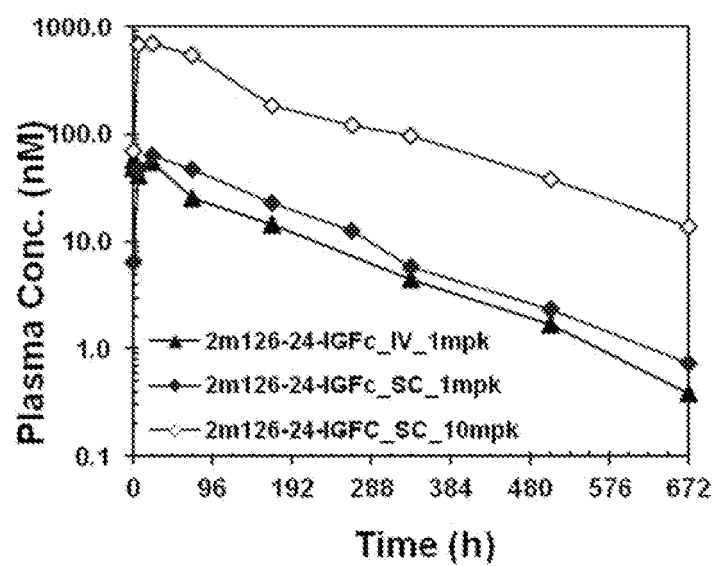
FIG. 9A**FIG. 9B**

11/33

FIG. 10



12/33

FIG. 11

13/33

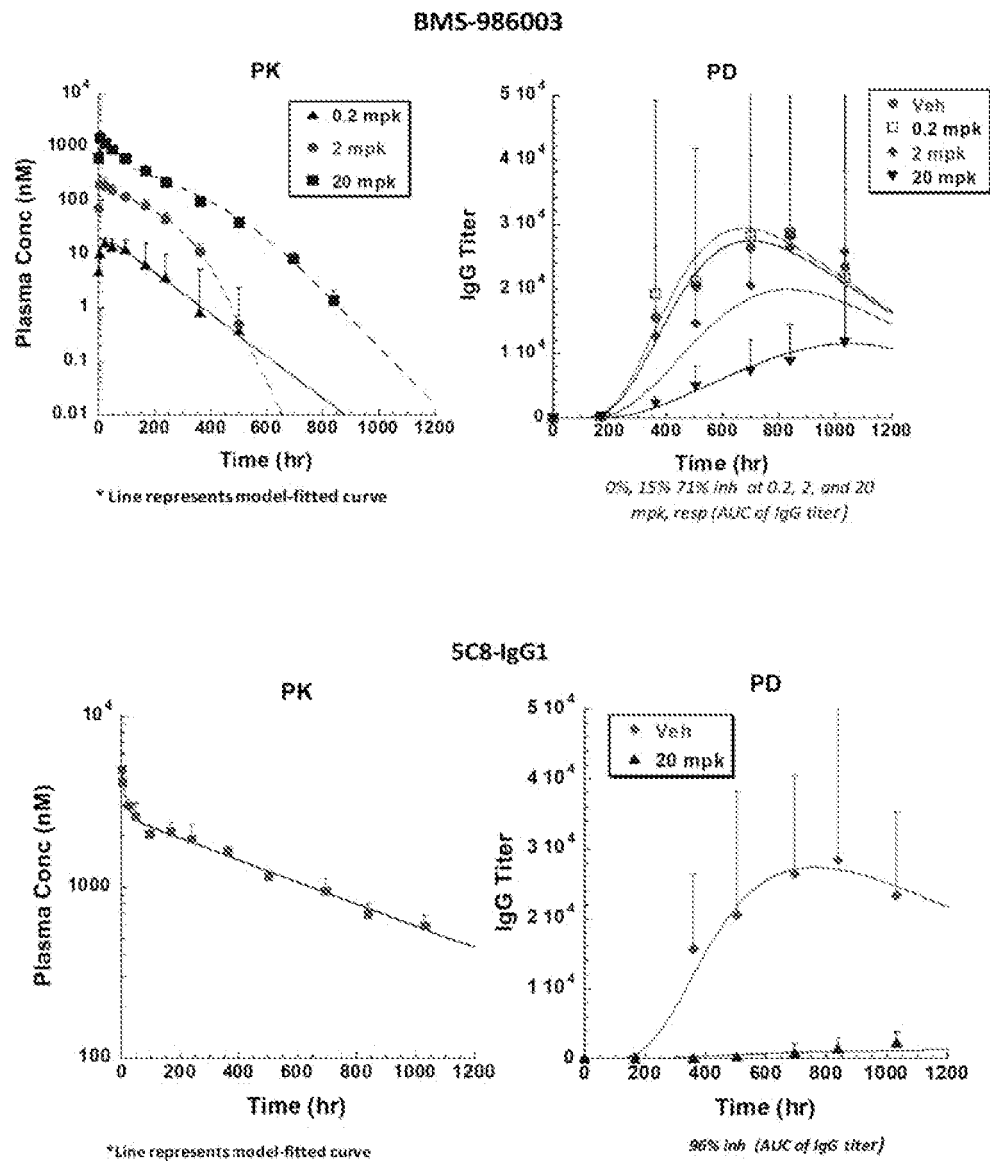
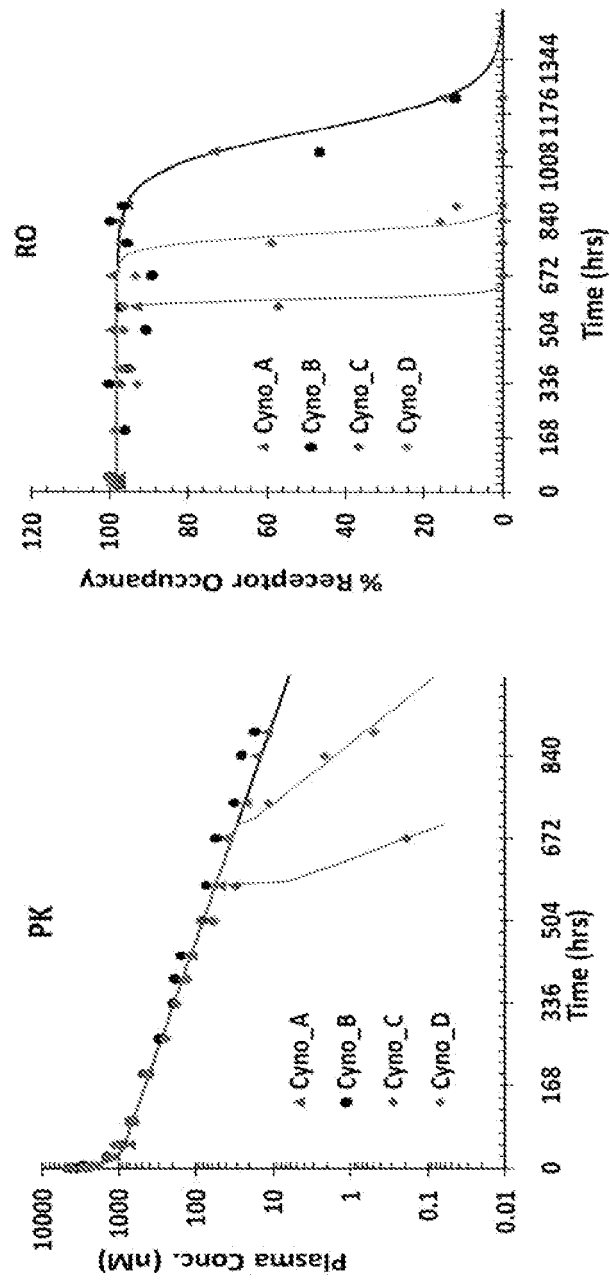
FIG. 12

FIG. 13



15/33

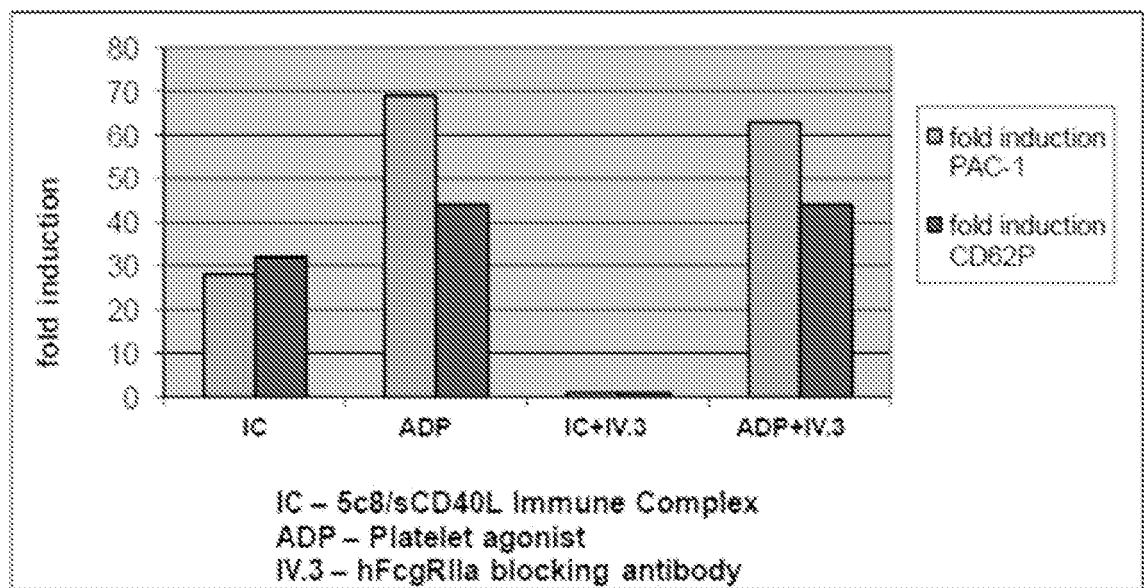
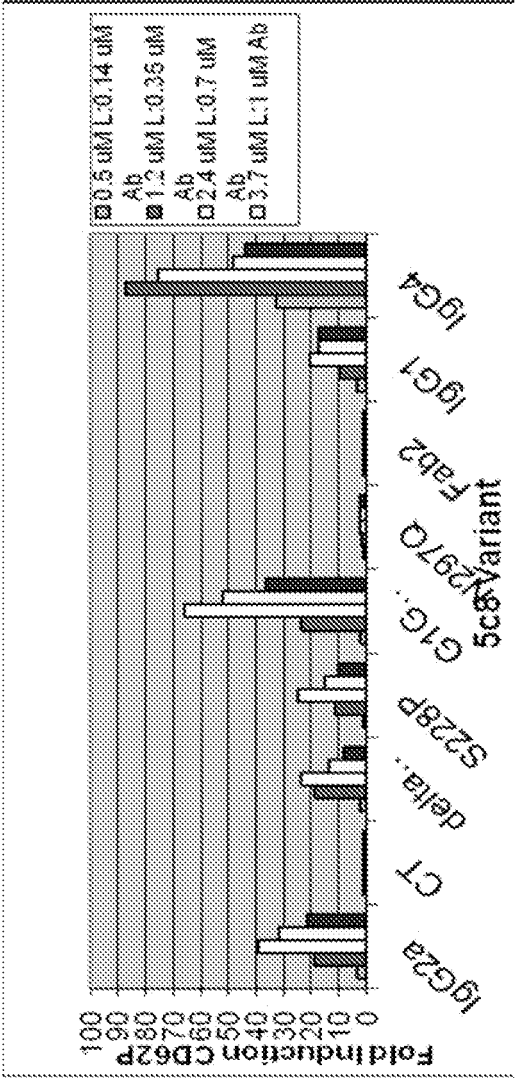
FIG. 14

FIG. 15



17/33

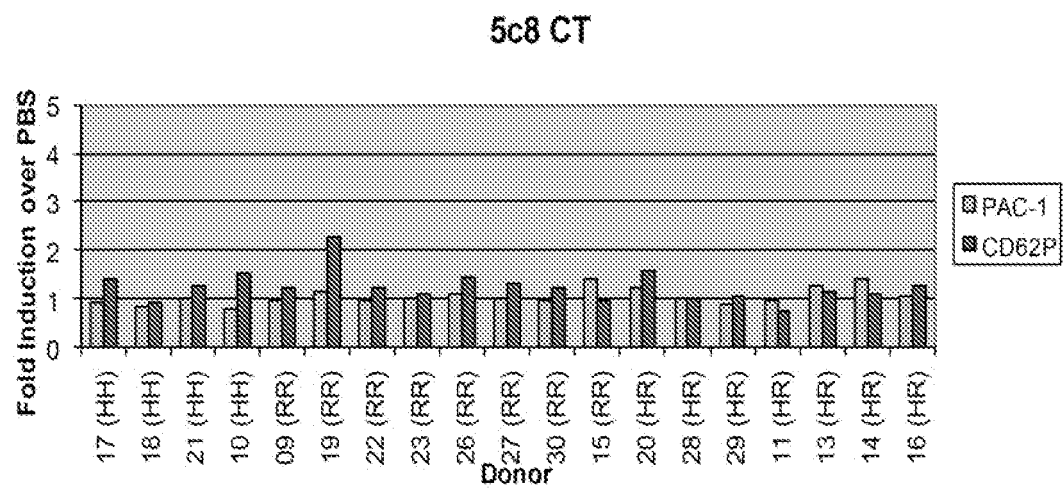
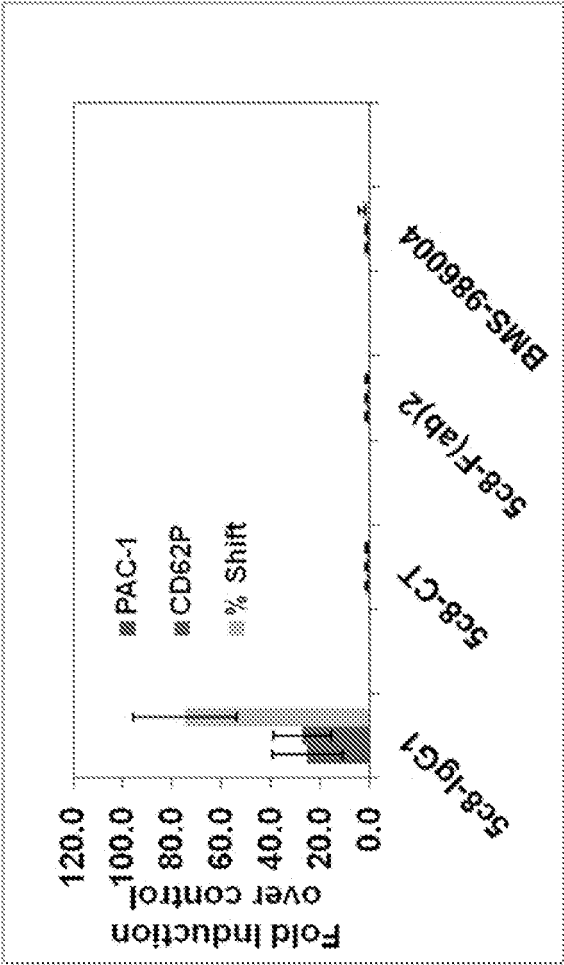
FIG. 16

FIG. 17



19/33

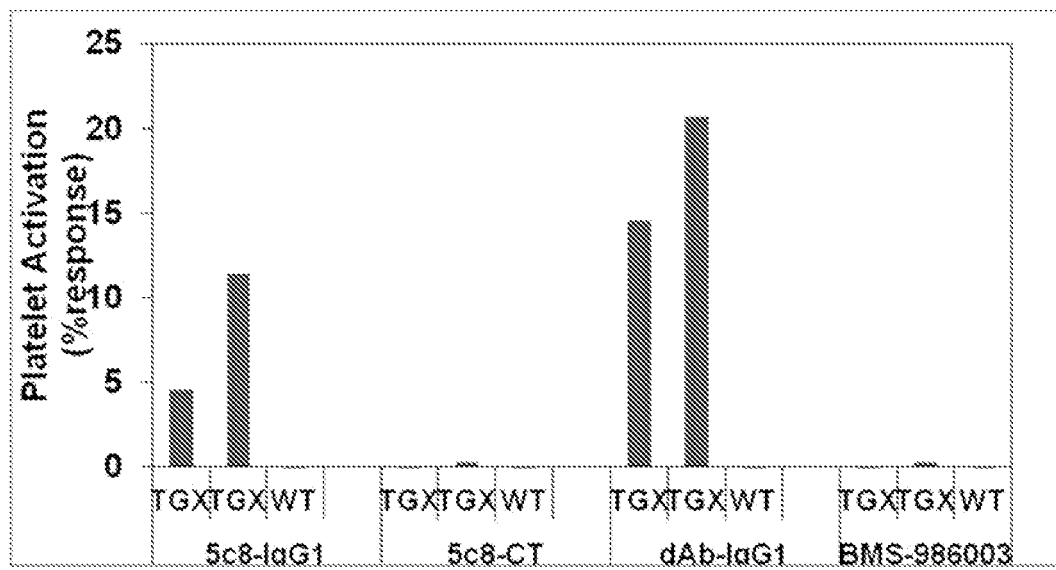
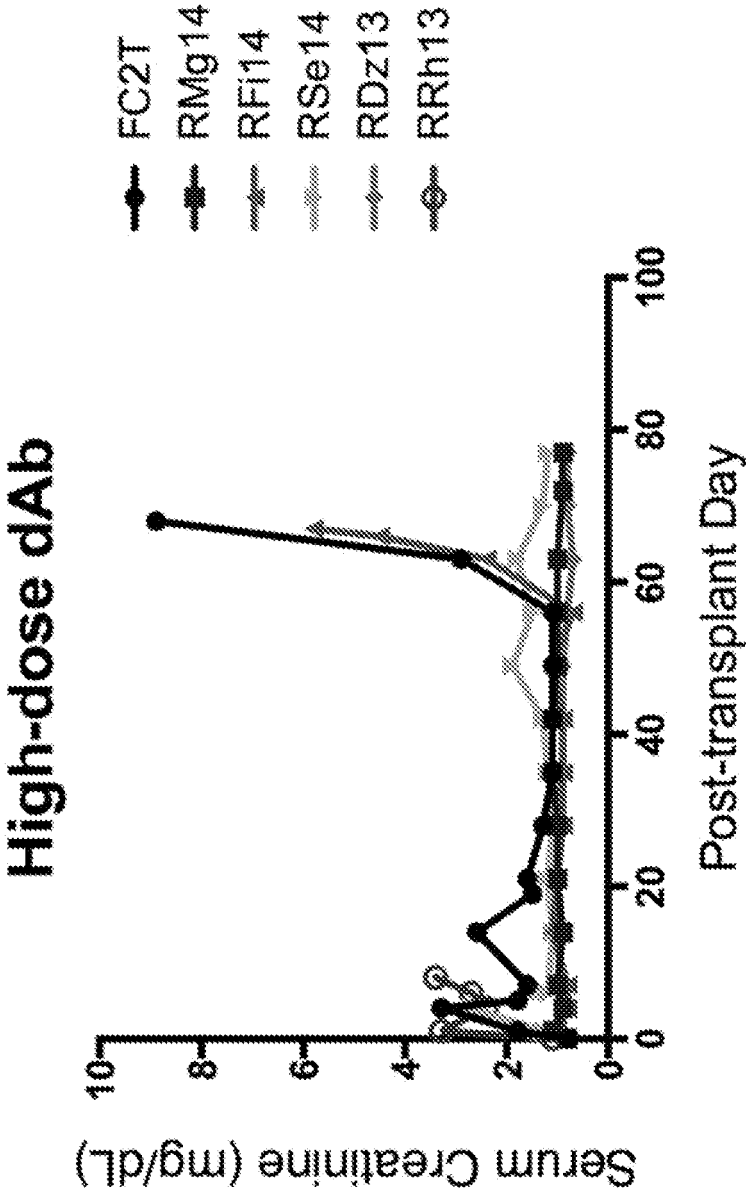
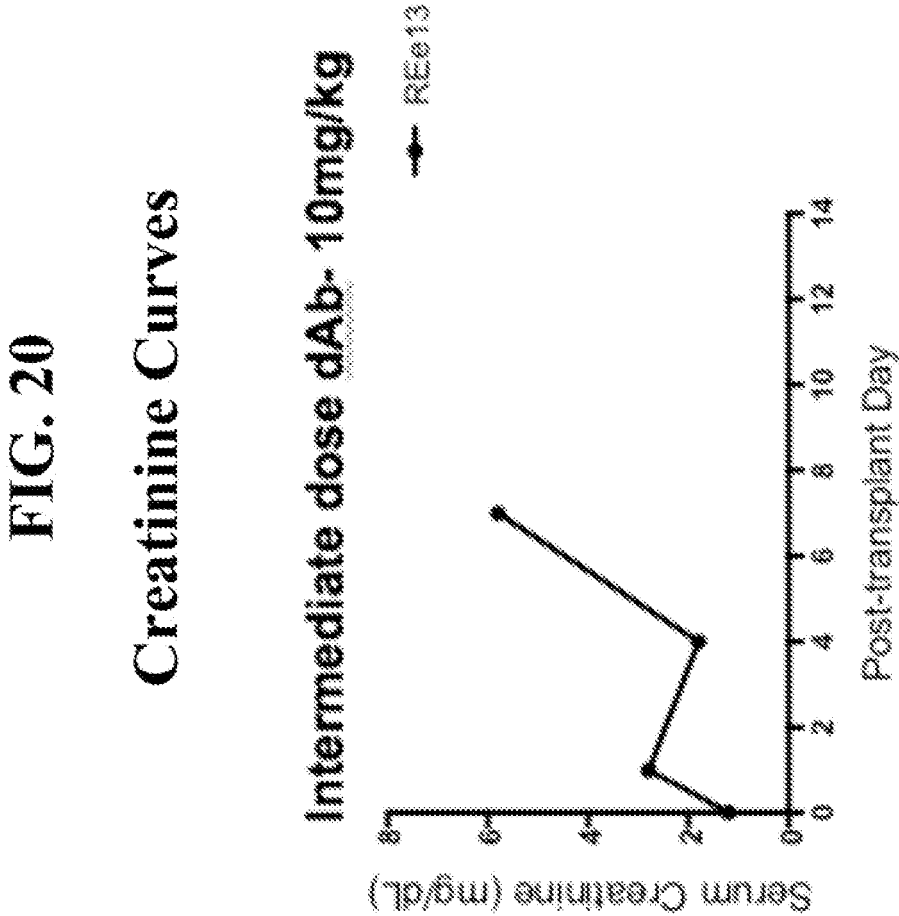
FIG. 18

FIG. 19
Creatinine Curves





22/33

FIG. 21
Creatinine Curves

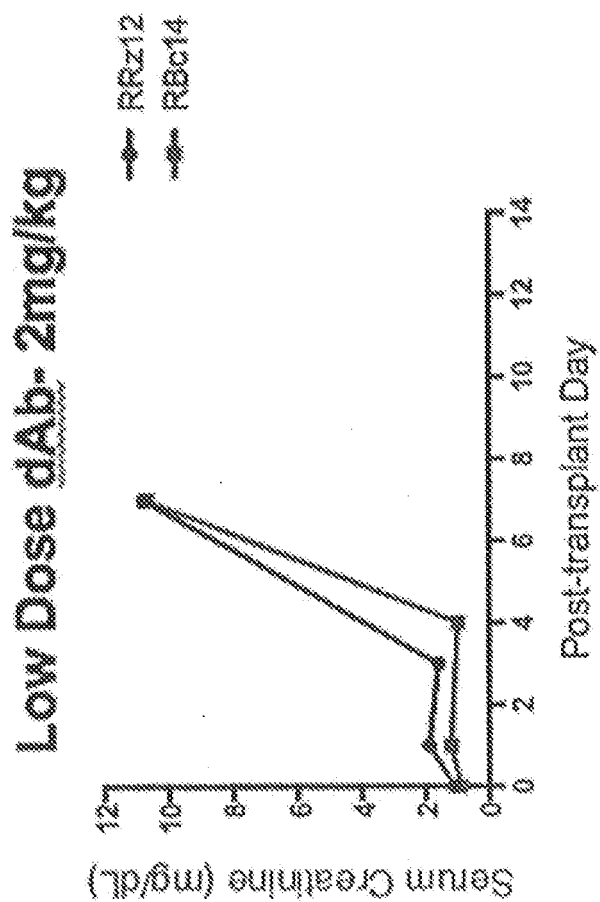


FIG. 22
Creatinine Curves

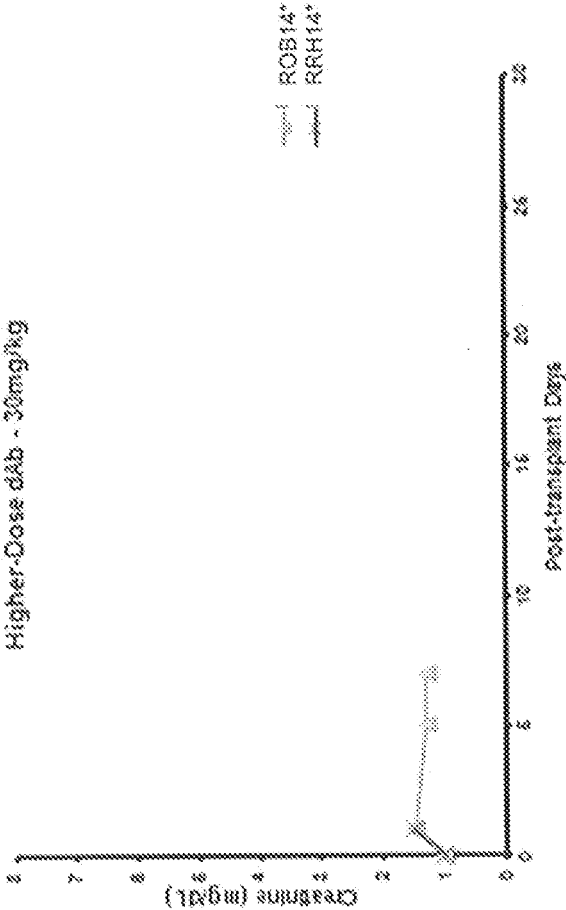
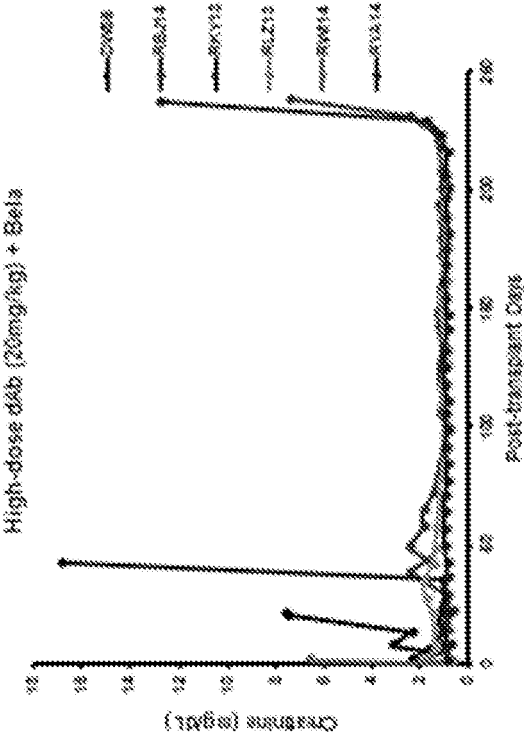


FIG. 23
Creatinine Curves



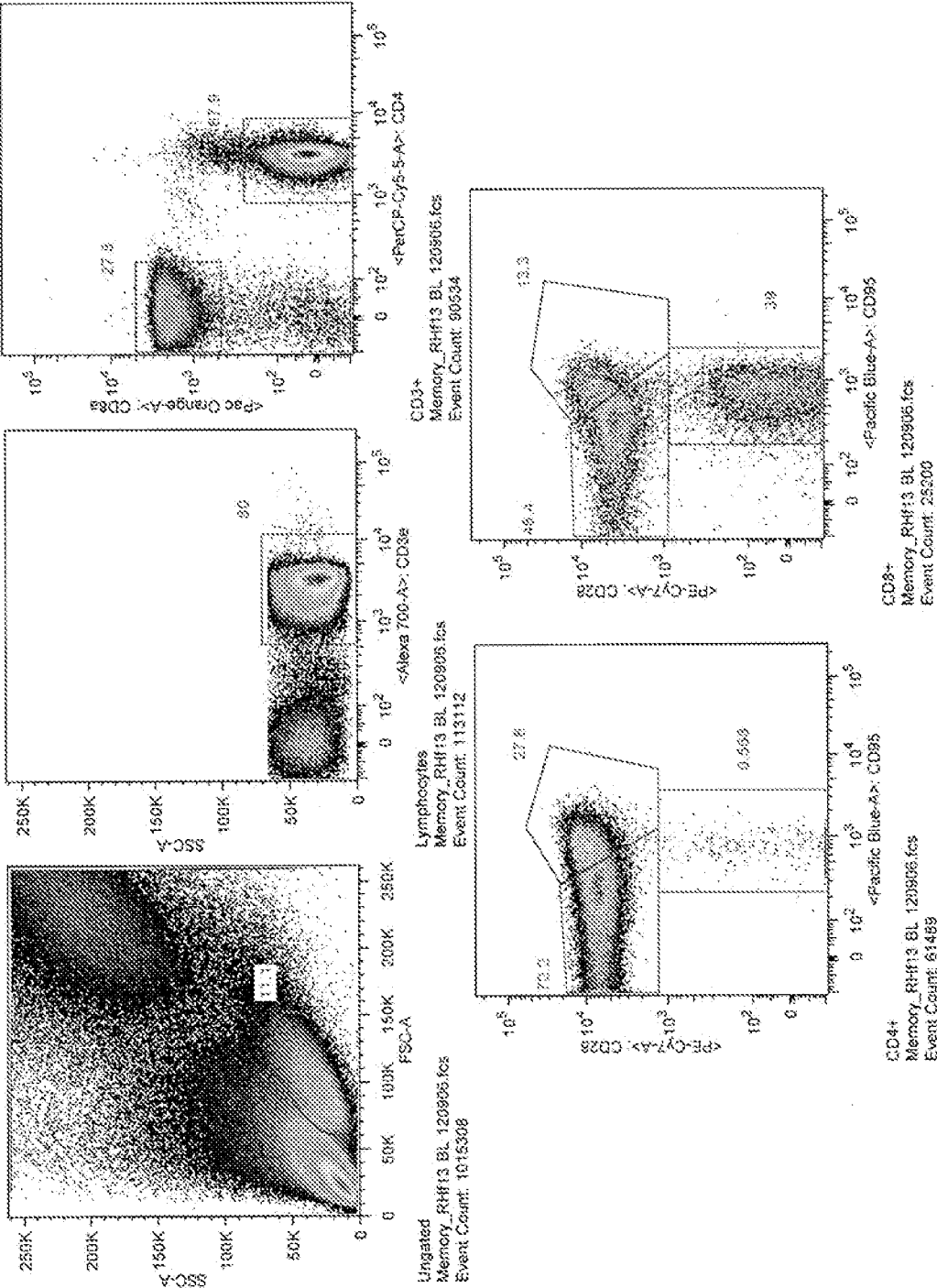


FIG. 24 Flow Cytometry – Peripheral Blood

FIG. 25

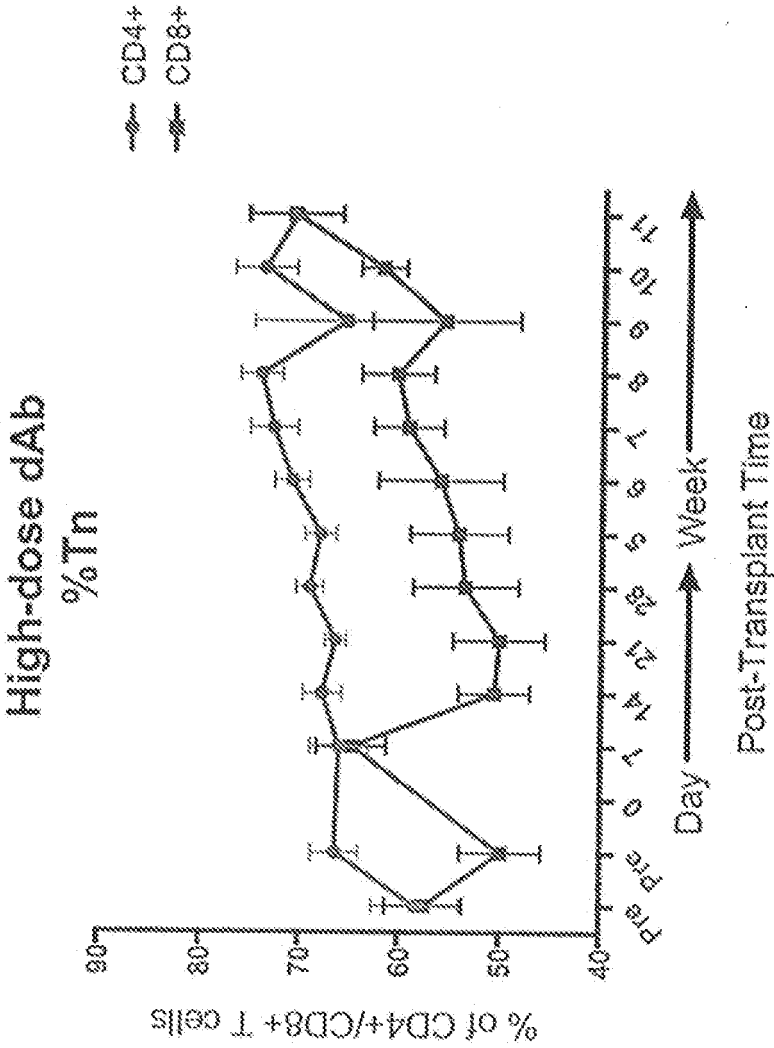
Flow Panels

	AF 700	PerCP-Cy5.5	V500	V450	FITC	PE-Cy7	APC	PE
1-Memory	CD3	CD4	CD8	CD95	CD45RA	CD28	CCR7	
2-Th17	CD4	CCR6	CD8	CD3		CXCR3		
3-Activation	CD20	CD4	CD8		CD40	CD3	VLA-4	CD11a
4-T Reg	CD3	CD4	CD8	FoxP3				CD25

Weekly flow -- panels 1,3,4
Baseline/Necropsy -- panels 1,2,3,4

27/33

FIG. 26
Naïve T cells



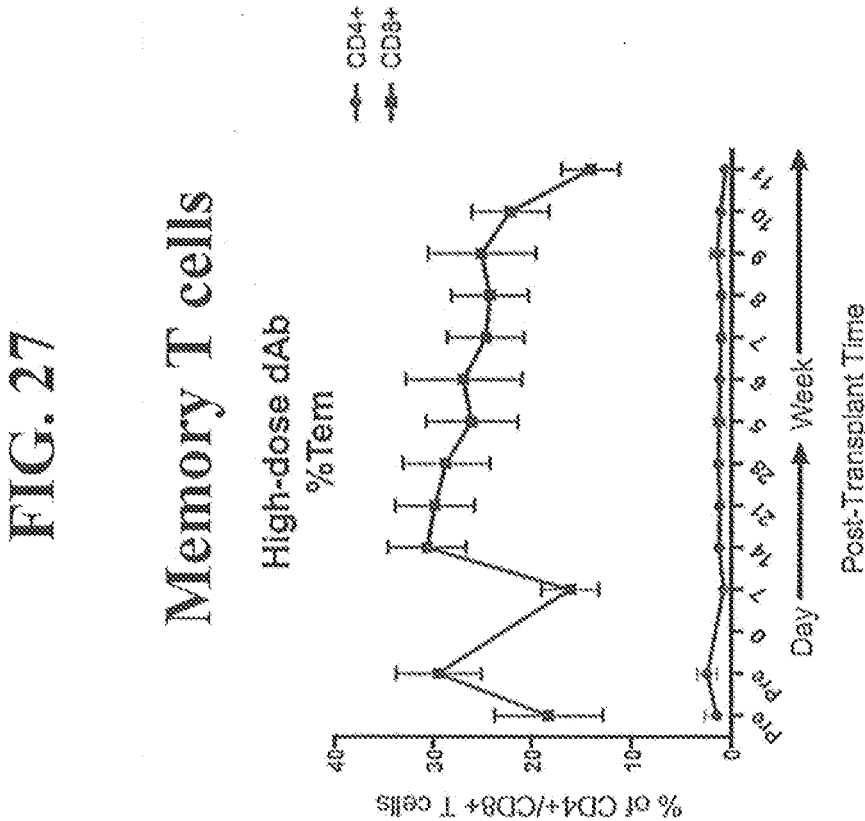
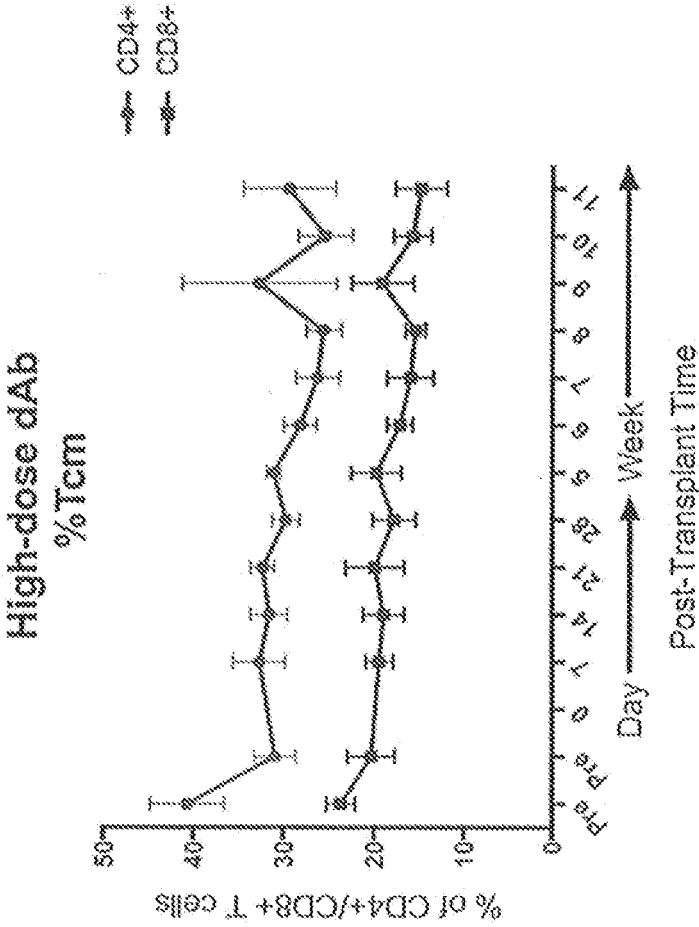


FIG. 28
Memory T cells



30/33

FIG. 29

Naïve T cells

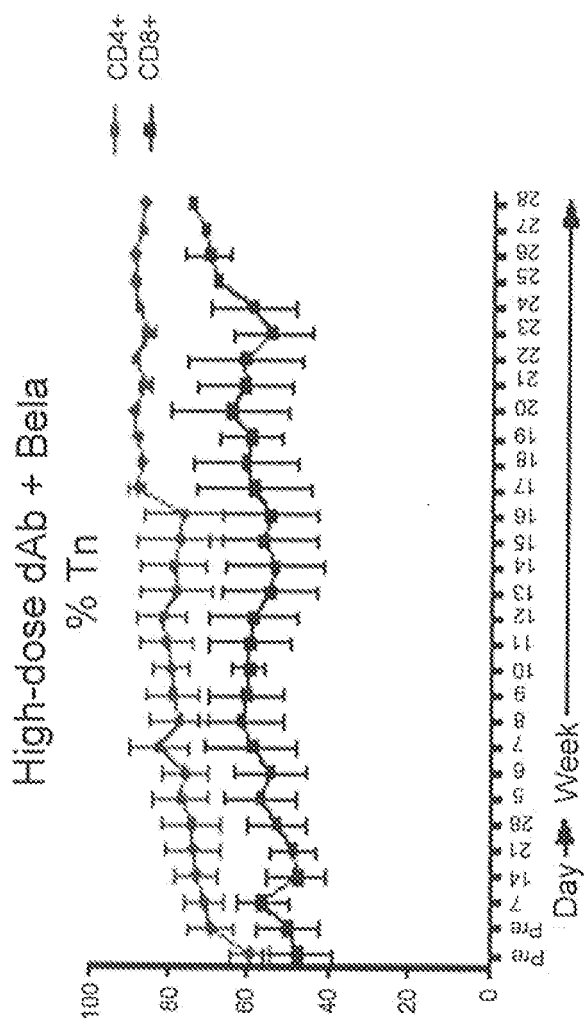


FIG. 30

Memory T cells

High-dose dAb + Bela

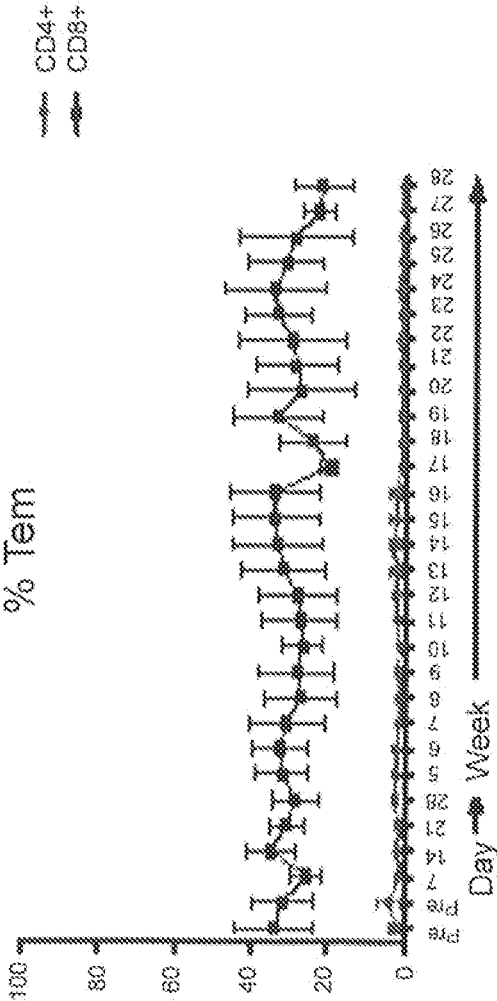


Fig. 3

Memory T cells

High-dose dAb + Be1a

%Tom

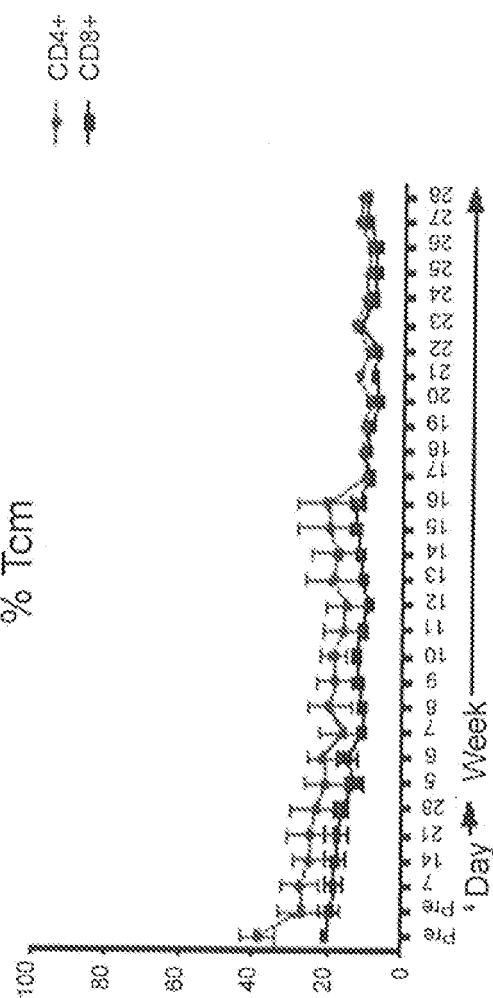


FIG. 32

