

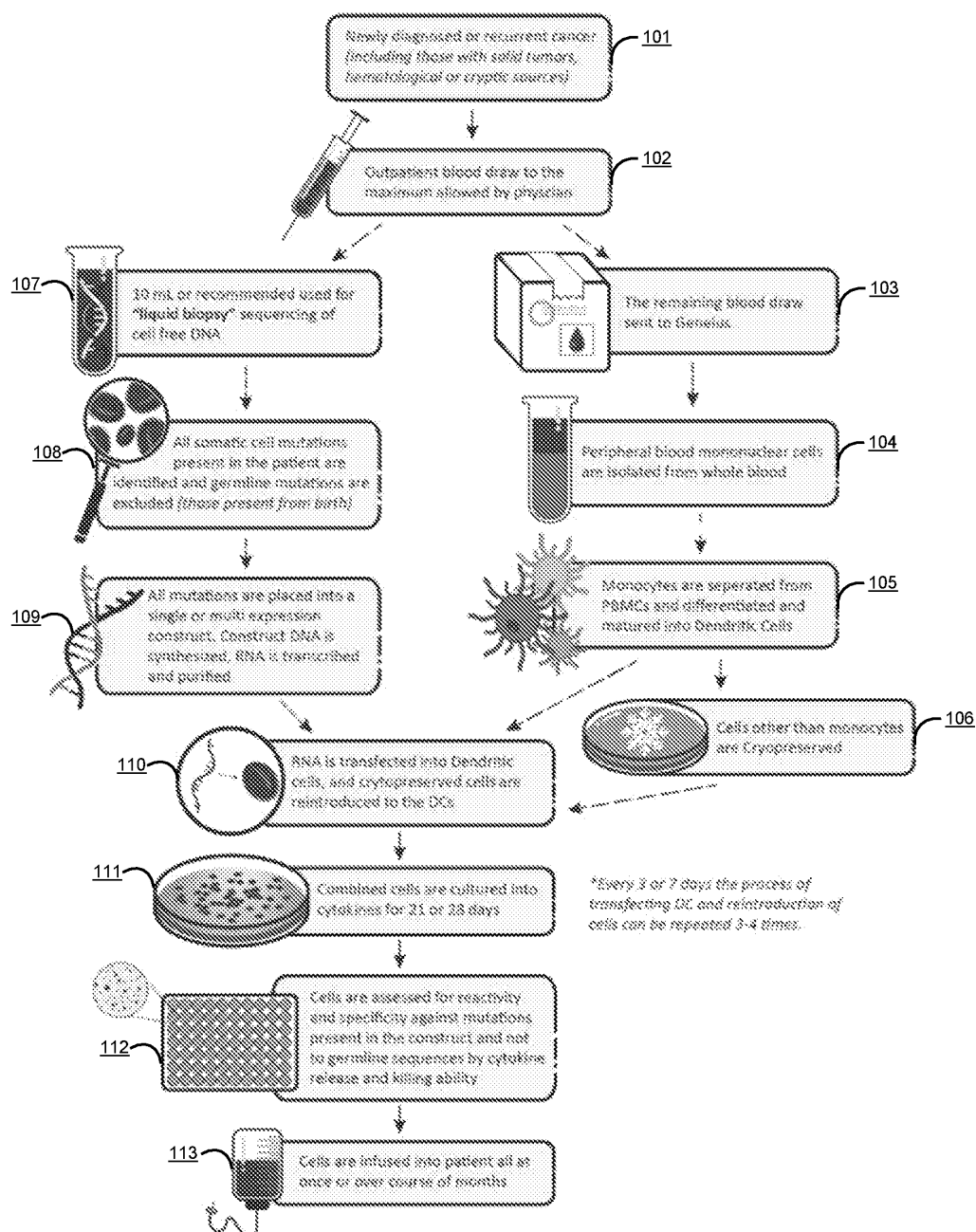


FIG. 1

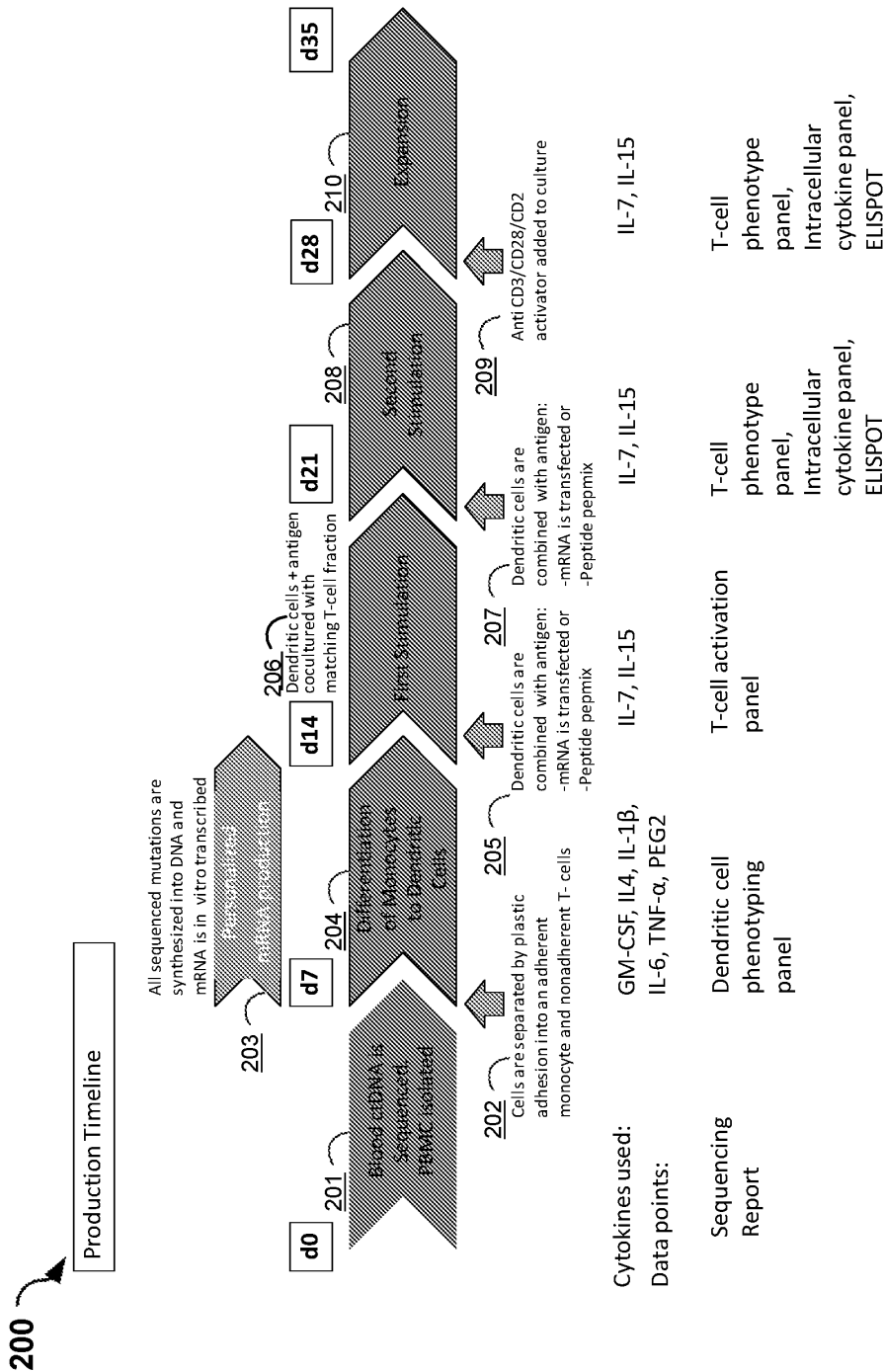


FIG. 2

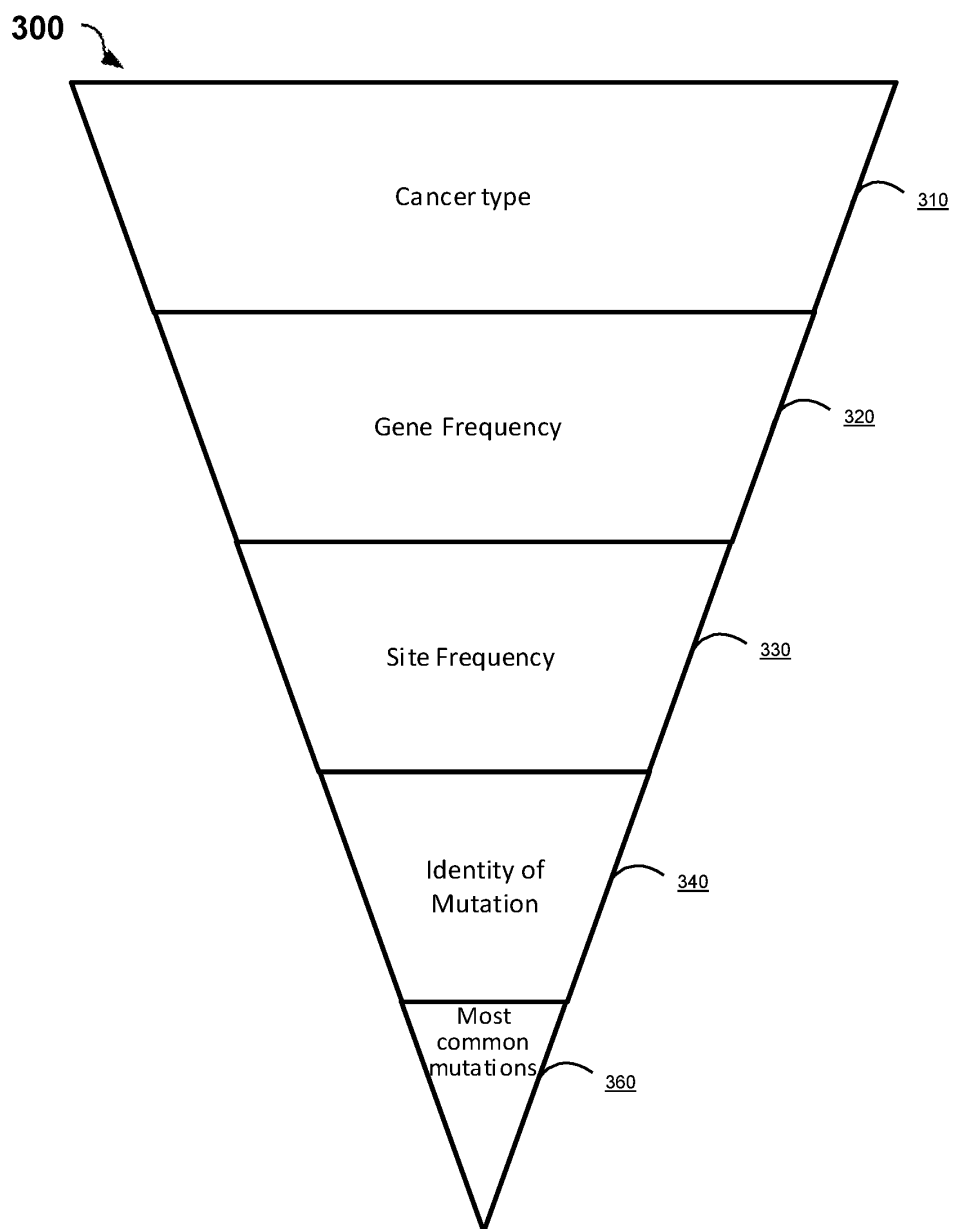


FIG. 3

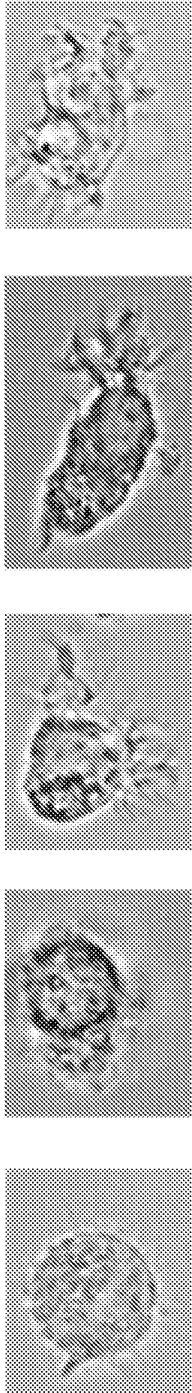
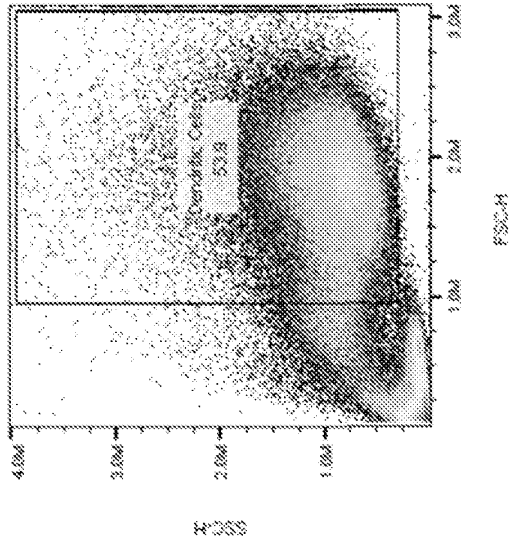
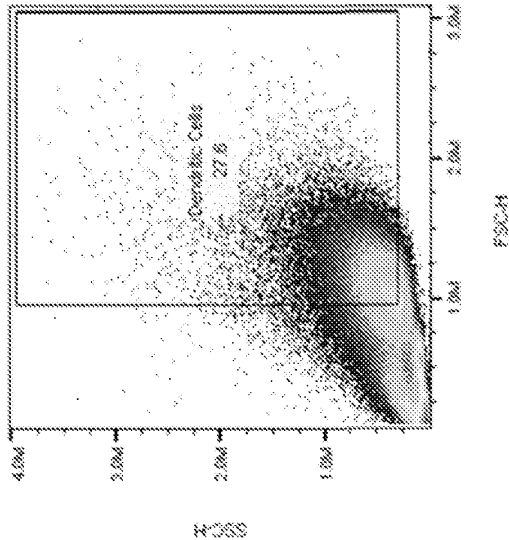


FIG. 4A



Day 5 Monocyte to DC differentiation



Day 2 Monocyte to DC differentiation

FIG. 4B

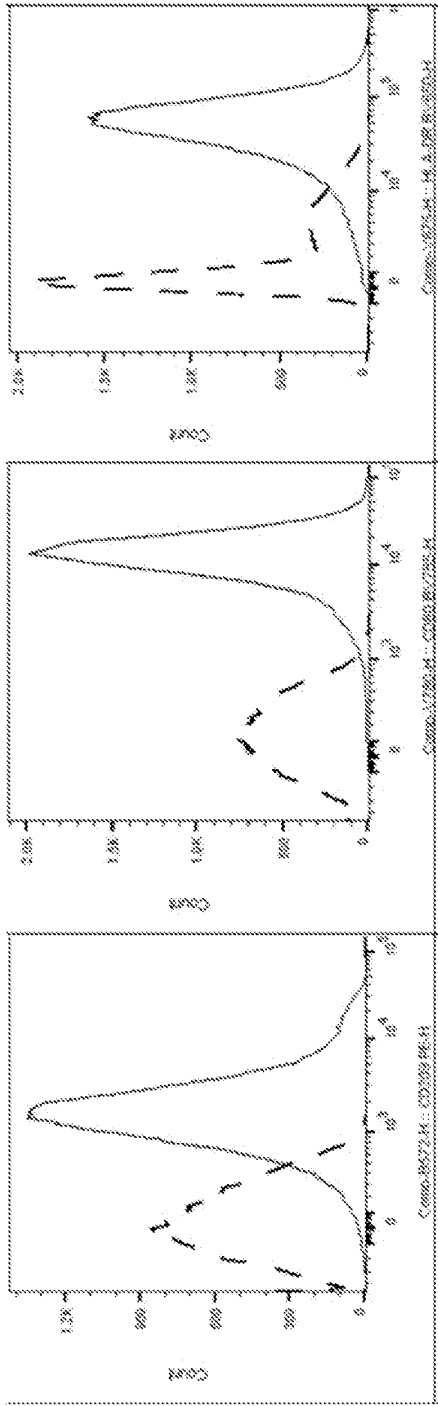


FIG. 5C

FIG. 5B

FIG. 5A

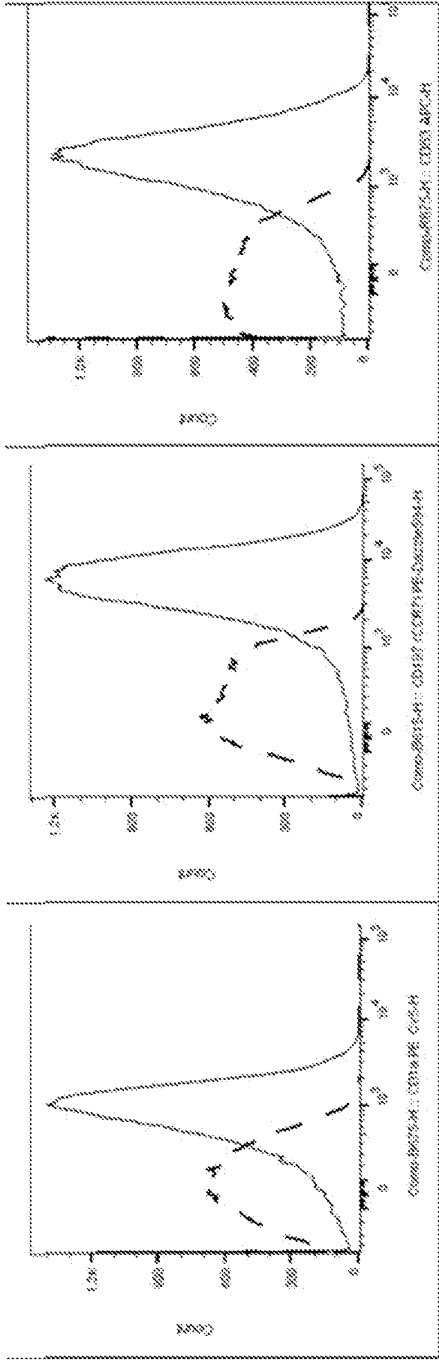


FIG. 5F

FIG. 5E

FIG. 5D

Dash line PBMC Solid line Whole Dendritic Cell Prep

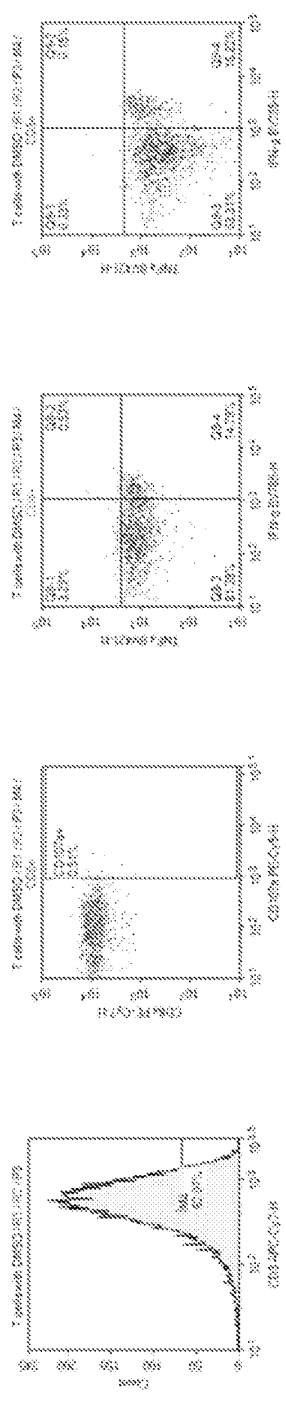


FIG. 6A

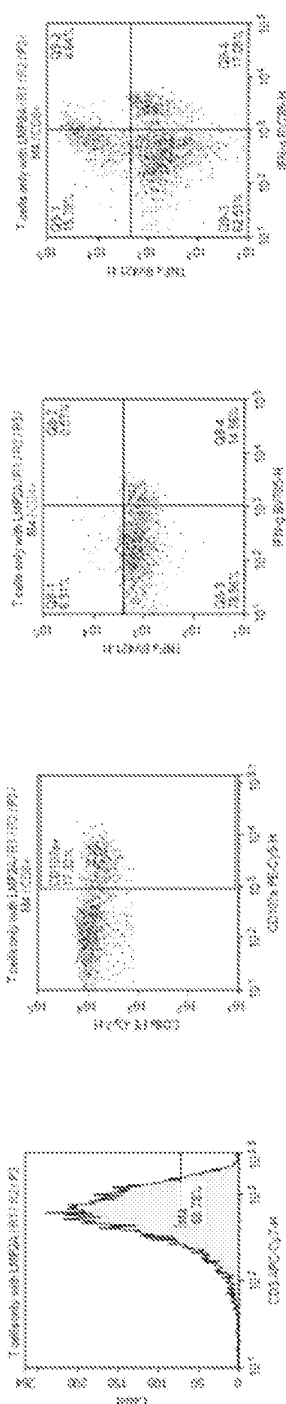


FIG. 6B

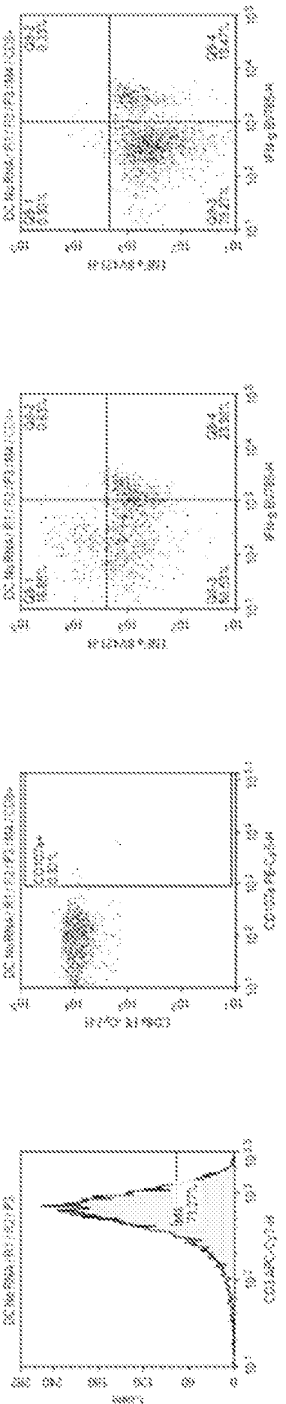


FIG. 6C

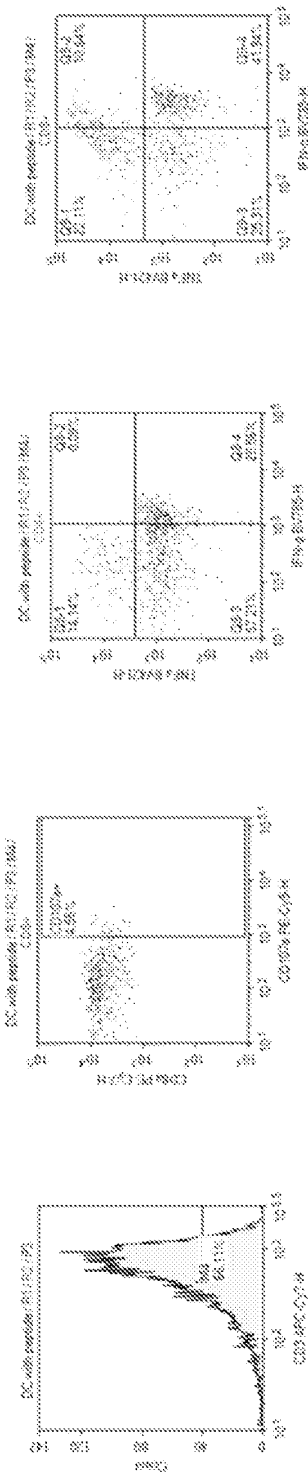
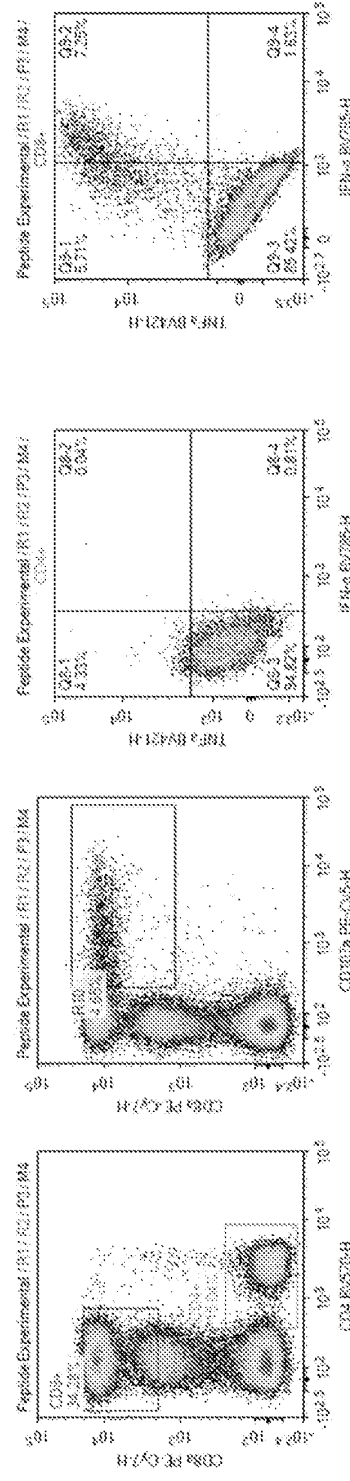
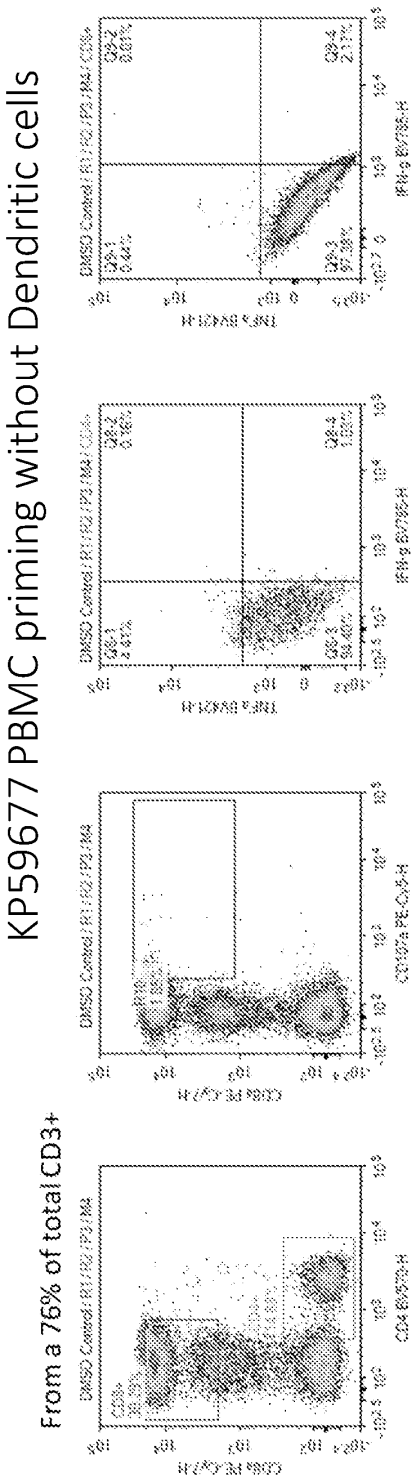


FIG. 6D



KP59677 Priming with Dendritic Cells

From a 95% CD3+ population

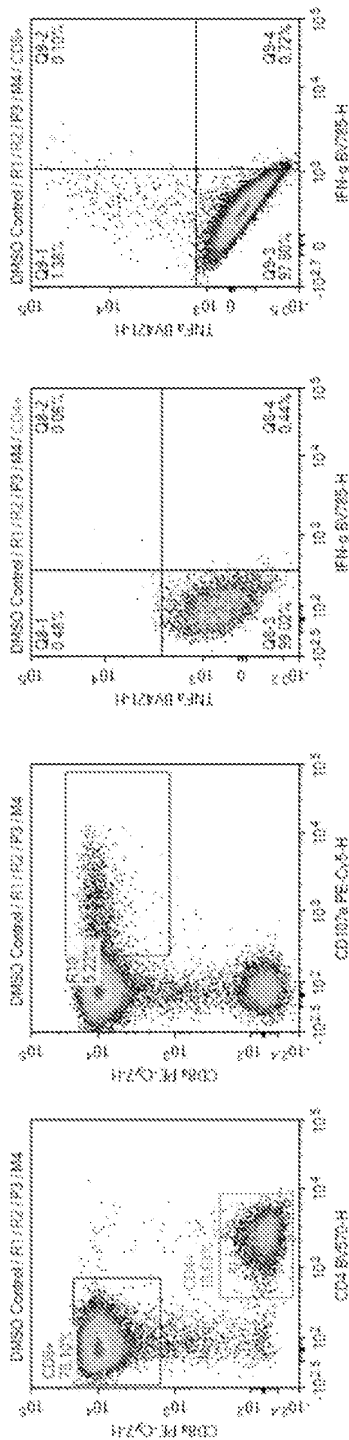


FIG. 7C

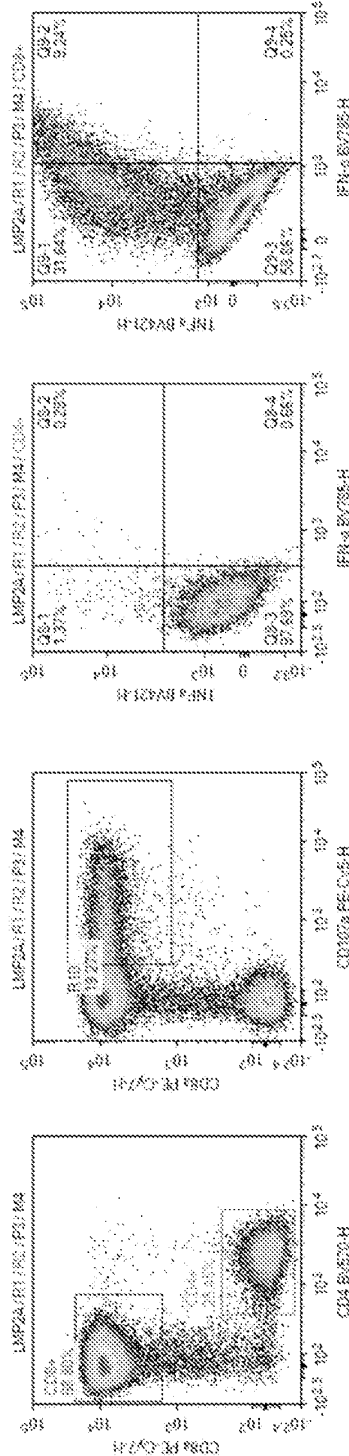


FIG. 7D

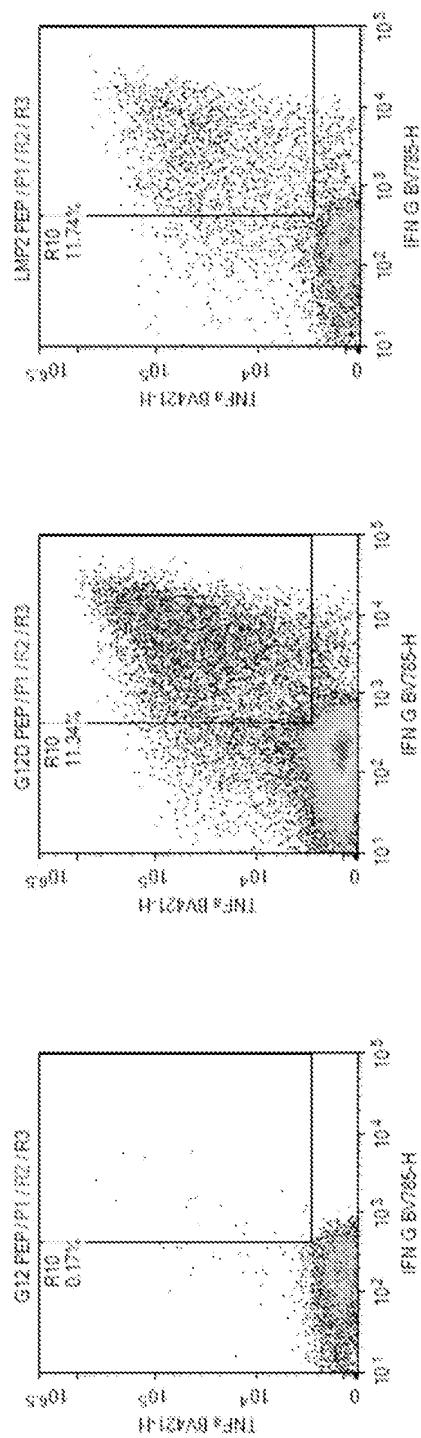


FIG. 8A

FIG. 8B

FIG. 8C

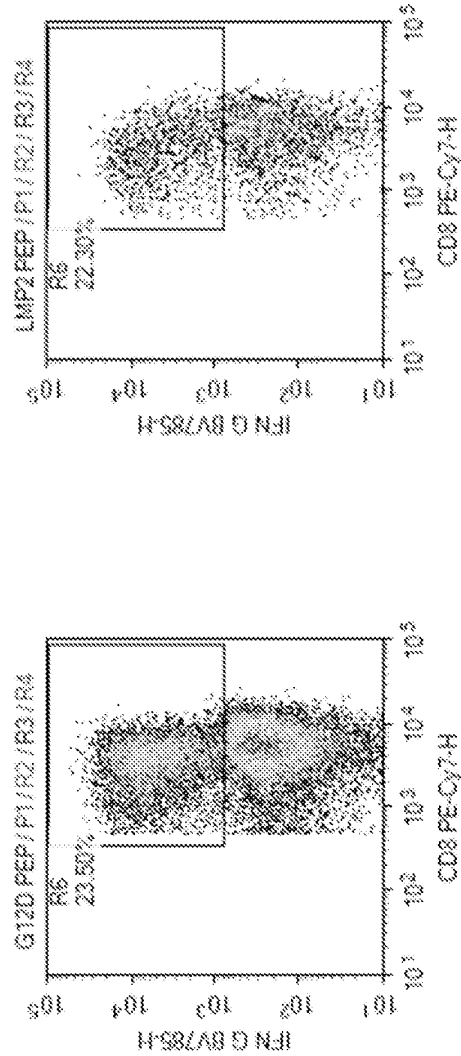


FIG. 8D

FIG. 8E

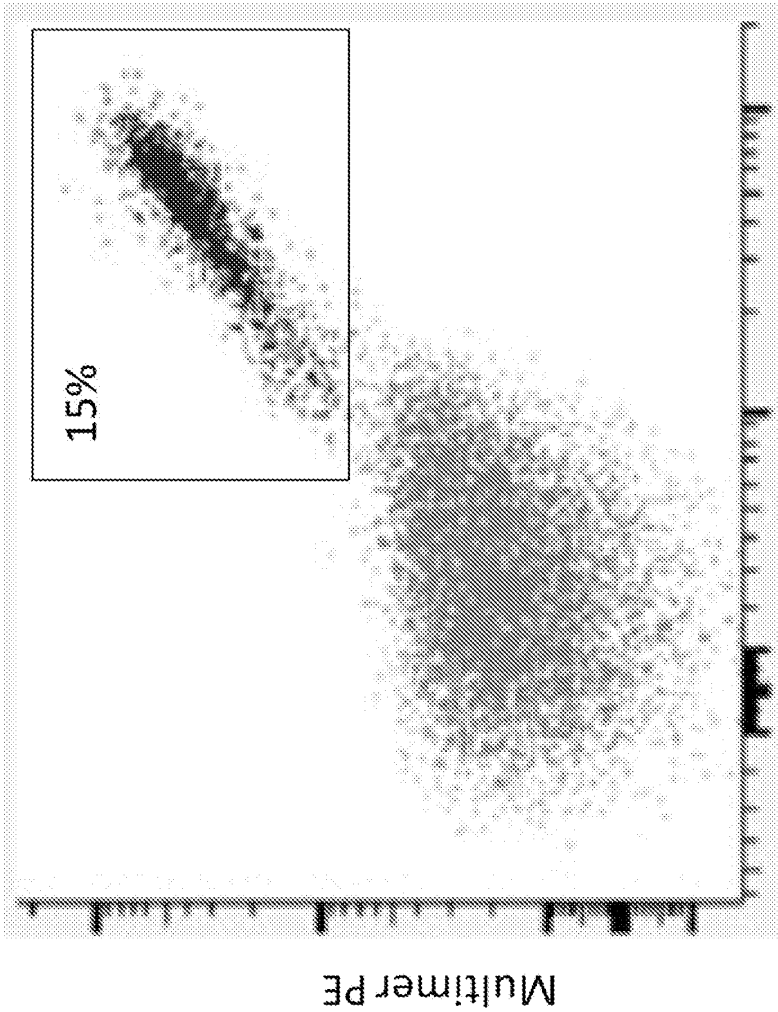


FIG. 9

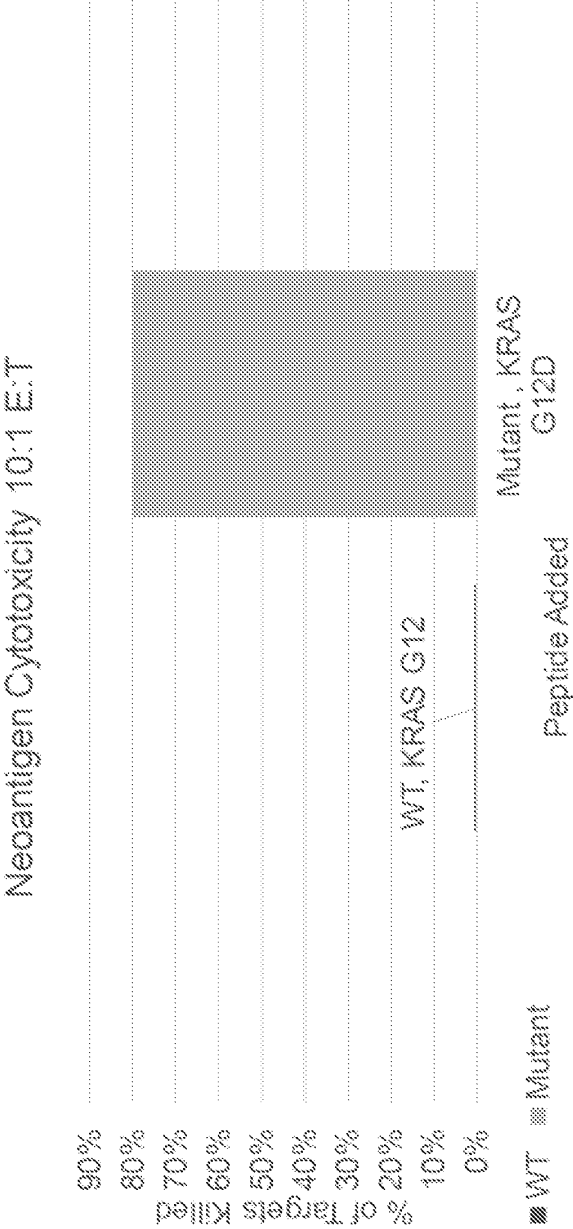
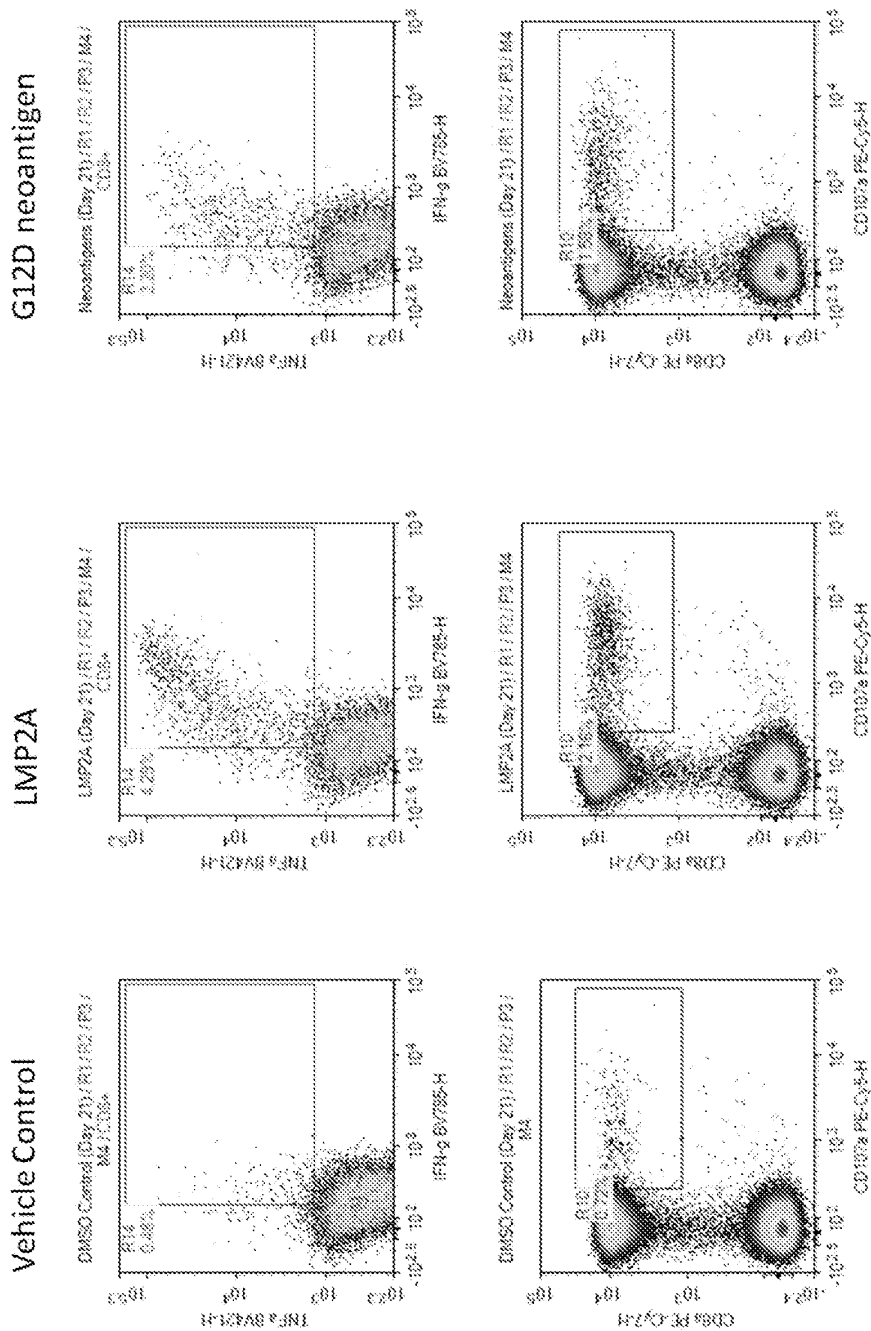


FIG. 10



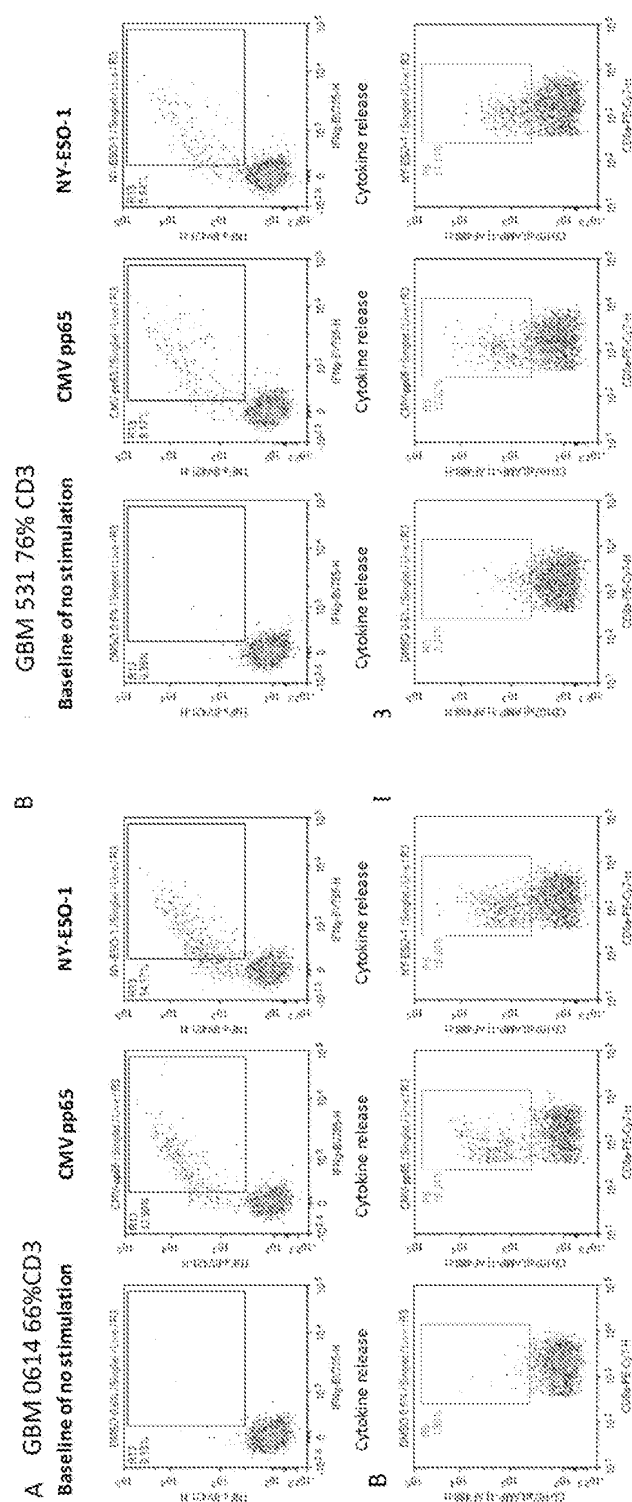


FIG. 12B

FIG. 12A

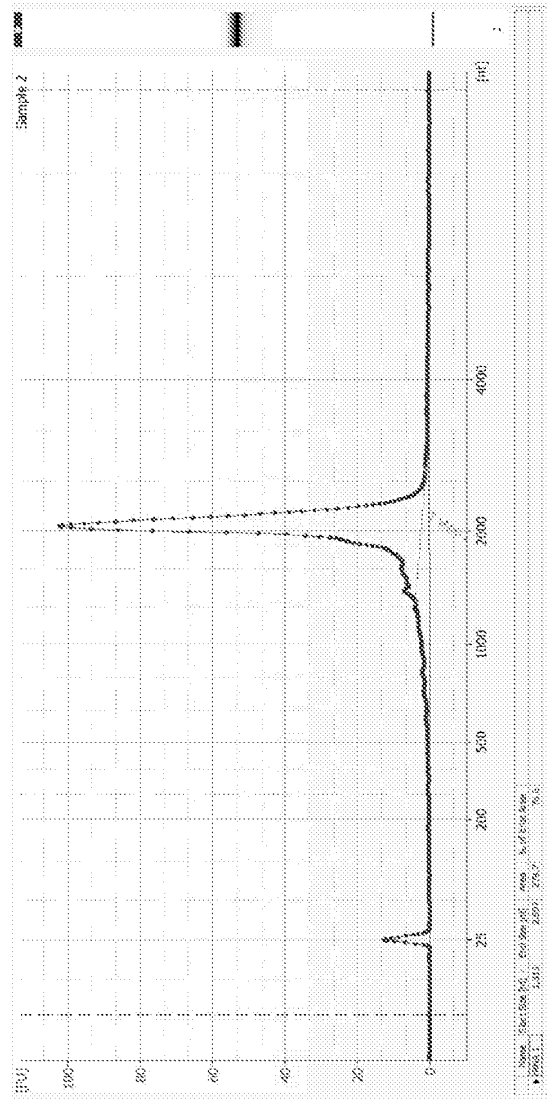
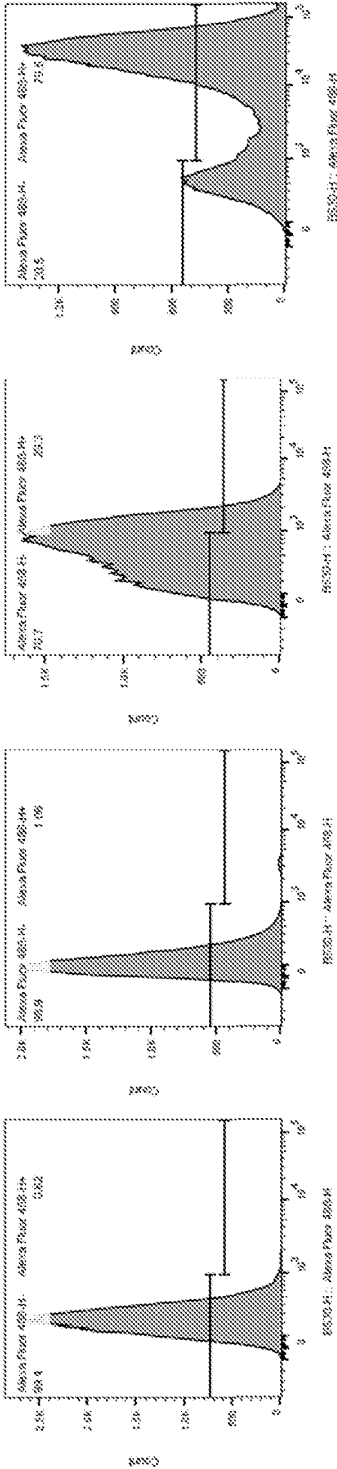


FIG. 13



Mock Transfected day 5 monocyte to dendritic cell differentiation

FIG. 14A

2 ug GFP transfected day 2 monocyte to DC differentiation

FIG. 14B

2 ug GFP transfected day 5 monocyte to DC differentiation

FIG. 14C

10 ug GFP transfected day 6 monocyte to DC differentiation post maturation

FIG. 14D

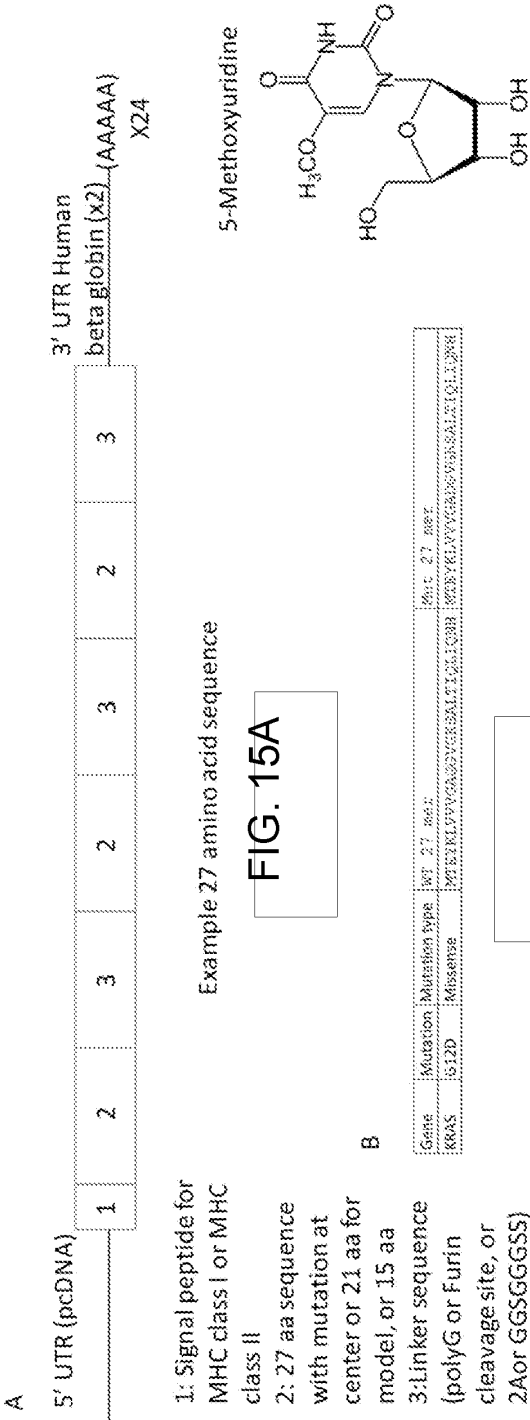


FIG. 15B

FIG. 15C

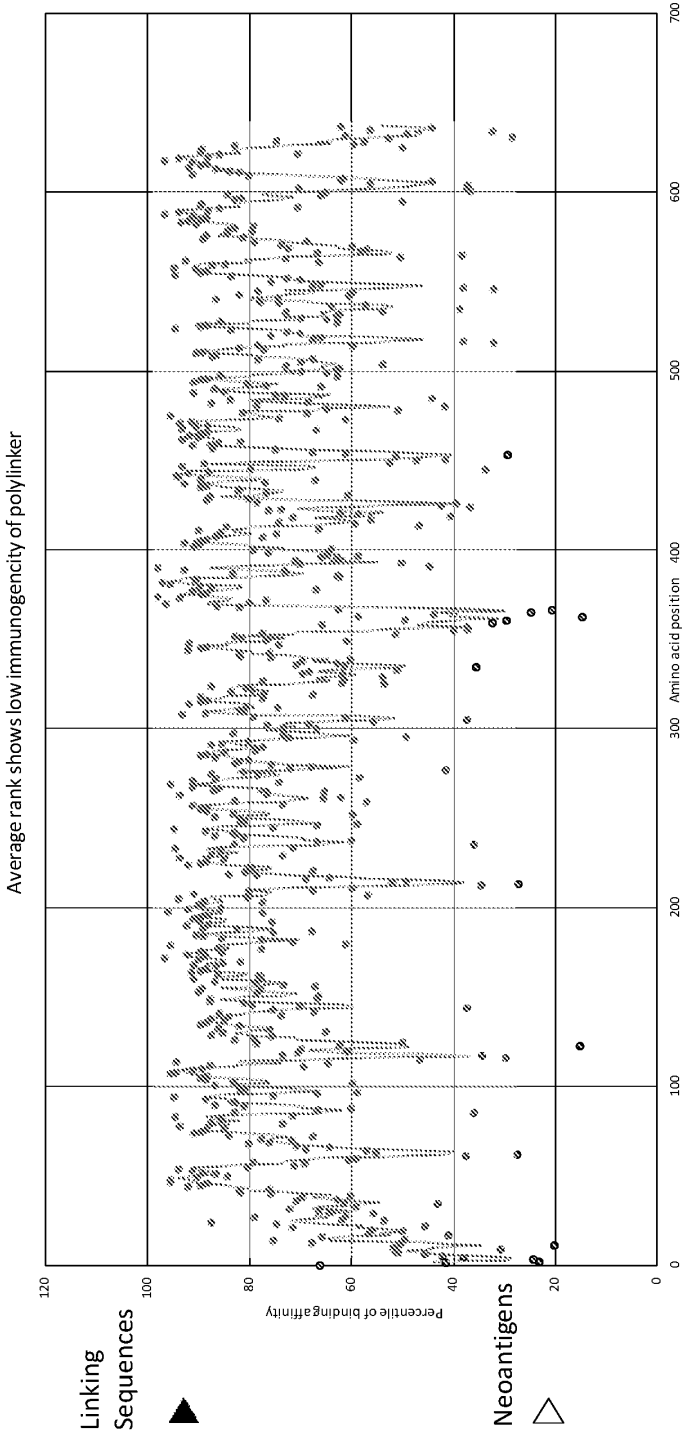


FIG. 16

KP59677DC RNA
From a 94% CD3+ population

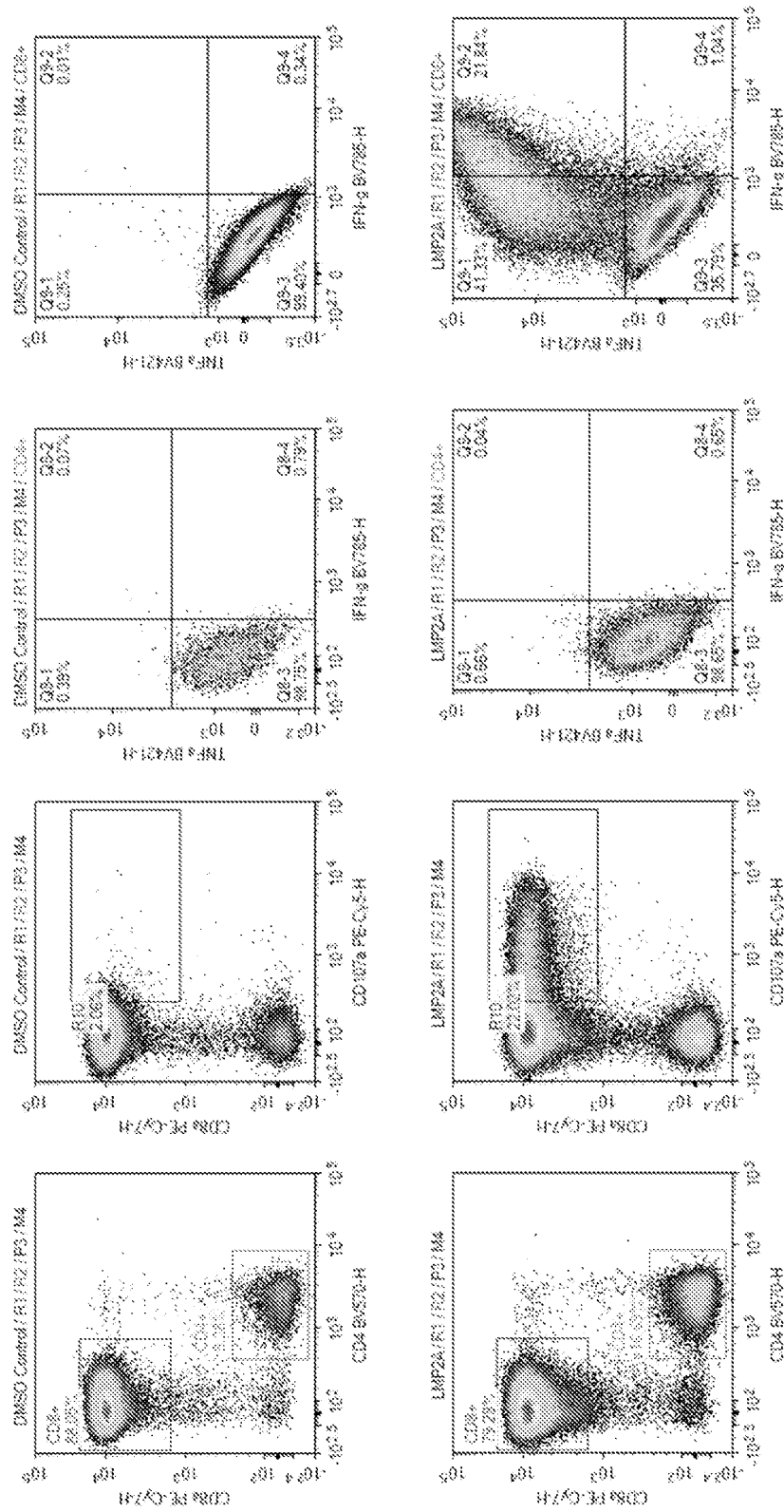
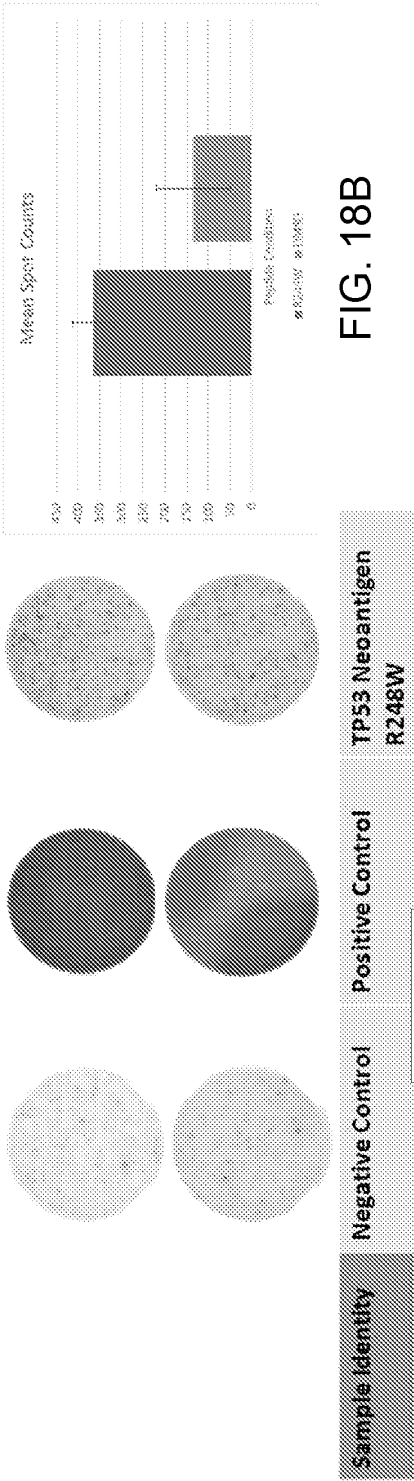


FIG. 17

Normal donor priming with Geneius RNA process



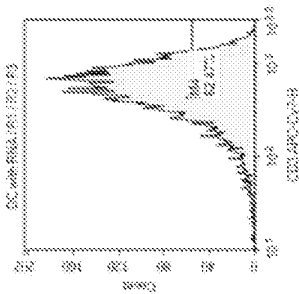


FIG. 18C

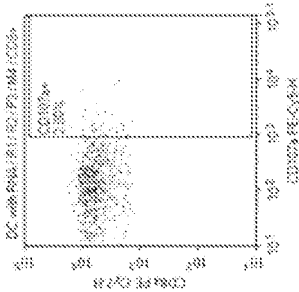


FIG. 18D

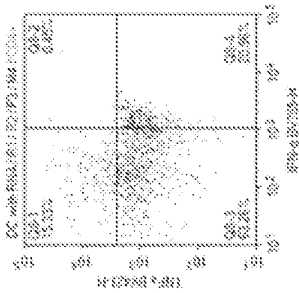


FIG. 18E

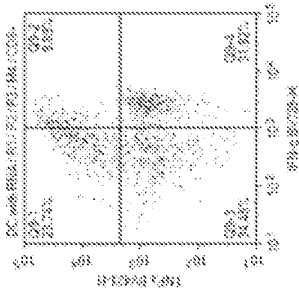


FIG. 18F

Construct Order #	Gene	Germline Sequence	Mutated Sequence
1	DMNT3A R882C	VHYTDVSNMSRLARQLLGR	VHYTDVSNMSCLARQLLGRS
2	TP53 R158L	DSTPPPGTRVRAMAIYKQSQ	DSTPPPGTRVLAMAIYKQSQH
3	PIK3CA Q546K	KAISTRDPLSQITEQEKDFL	KAISTRDPLSKITEQEKDFLW
4	TP53 C238Y	DCTTIHYNMCMSSCMGGMN	DCTTIHYNMYNSSCMGGMNR
5	EGFR E76_A750del	VKIPVAIKELREATSPKANK	VKIPVAIKE-ATSPKANKEILL
6	TP53 E286K	ACPGRRRTEEEENLRKKGEP	ACPGRRRTEKENLRKKGEPH
7	TP53 V157F	VDSTPPPGTRVRAMAIYKQS	VDSTPPPGTRFRAMAIYKQSQ
8	PIK3CA E542K	KAISTRDPLSEITEQEKDFL	KAISTRDPLSKITEQEKDFLW
9	NRAS Q61K	CLLDILDTAGQEEYSAMRDQ	CLLDILDTAGKEEYSAMRDQY
10	IDH2 R140Q	KMWKSPNGTIRNII LGGTVFR	KMWKSPNGTIQNI LGGTVFRE
11	DNMT3A R882H	VHYTDVSNMSRLARQLLGR	VHYTDVSNMSHLARQLLGRS
12	EGFR T790M	ICLTSTVQLITQLMPFGCLL	ICLTSTVQLIMQLMPFGCLLD
13	TP53 G266E	TLEDSSGNLLGRNSFEVRVC	TLEDSSGNLLERNSEFVRVCA
14	FLT3 D835Y	VKICDFGLARDIMSDSNVYV	VKICDFGLARYIMSDSNYVVR
15	TP53 H241R	EYLDNRNTFRHSVVVPYEPP	EYLDNRNTFRRSVVVPYEPE
16	NPM1 W288Cfs*30	NCFRMTDQEAIQDLWQWRKS	MTDQEAIQDLC LAVEEVSLRK
17	KRAS G12D	YKLVVVGAGGVGKSALT IQL	YKLVVVGADGVGKSALT IQLI
18	KRAS G12V	MTEYKLVVVGAGGVGKSALT	YKLVVVGAVGVGKSALT IQLI
19	TP53 R175H	QSQHMTDEVVRRCPHHERCSD	QSQHMTDEVVRHCPHHERCSDS
20	TP53 R248Q	CNSSCMGGMNRRLPILTIITL	CNSSCMGGMNQRPILTIITILE
21	TP53 R248W	CNSSCMGGMNRRLPILTIITL	CNSSCMGGMNRWRLPILTIITILE

FIG. 19

FIG. 20A

21 Neoantigen 21 aa GSGGGSGG links 645 AA;
MLVMAPRTVL LLLSAALALT ETWAVHYTDV SNMSCLARQR LLGRSGSGG GSGDSTPPP
GTRVLAMAIY KQSQHGGSGG GSGGKAISTR DPLSKITEQE KDFLWGGSGG GSGDCTTIH
YNYMYNSSCM GGMNRGGSGG GSGGKVKIPV AIKEATSPKA NKEILGGSGG GSGGACPGRD
RTEKENLRK KGEPHGGSGG GSGGVDSTPP PGTRFRAMAI YKQSQGGSGG GSGGKAISTR
DPLSKITEQE KDFLWGGSGG GSGGCLLDIL DTAGKEEYSA MRDQYGGSGG GSGKMWKS P
NGTIQNILGG TVFREGGSGG GSGGVHYTDV SNMSHLARQR LLGRSGSGG GSGGICLTST
VQLIMQLMPF GCLLDGGSGG GSGGTLEDSS GNLLERNSE VRVCAGSGG GSGGVKICDF
GLARYIMSDS NYVVRGGSGG GSGGEYLLDR NTFRRSVVVP YEPPEGSGG GSGGMDQEA
IQDLCLAVEE VSLRKGSGG GSGGYKLVV GADGVGKSAL TIQLIGSGG GSGGYKLVV
GAVGVGKSAL TIQLIGSGG GSGGQSQHMT EVVRHCPHHE RCSDSGSGG GSGGCNSSCM
GGMNQRPILT IITLEGGSGG GSGGCNSSCM GGMNWRPILT IITLE

Signal sequence

FIG. 20B

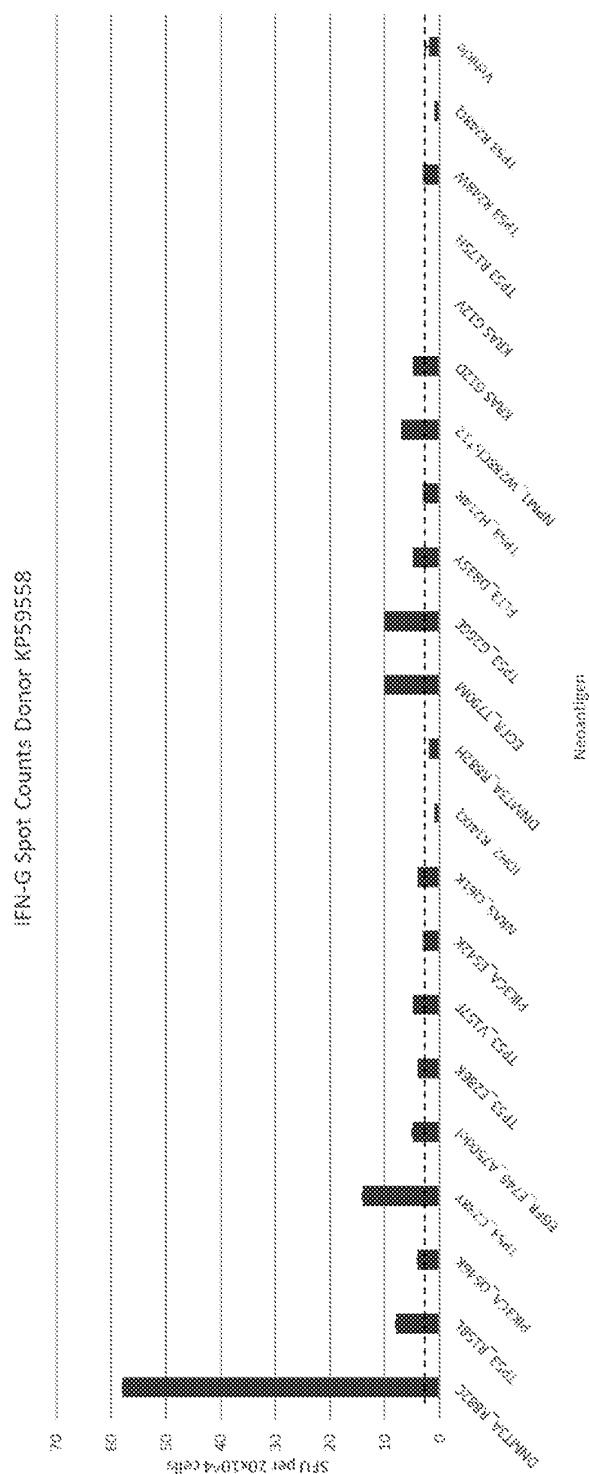


FIG. 21A

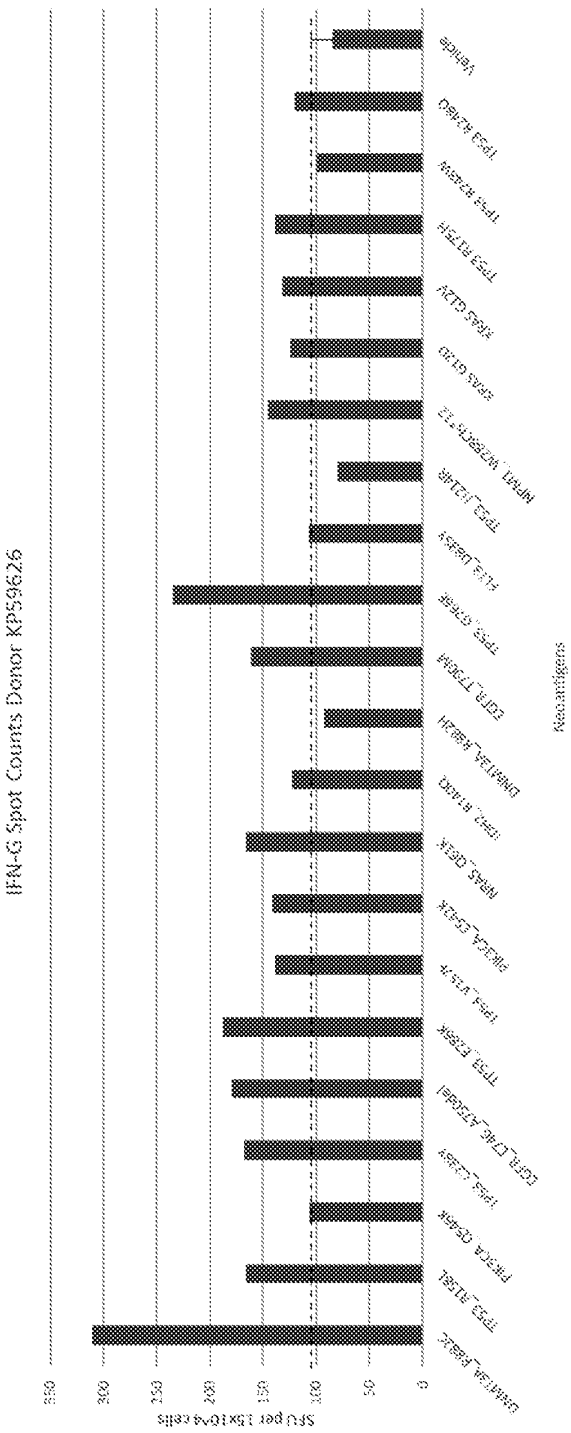


FIG. 21C

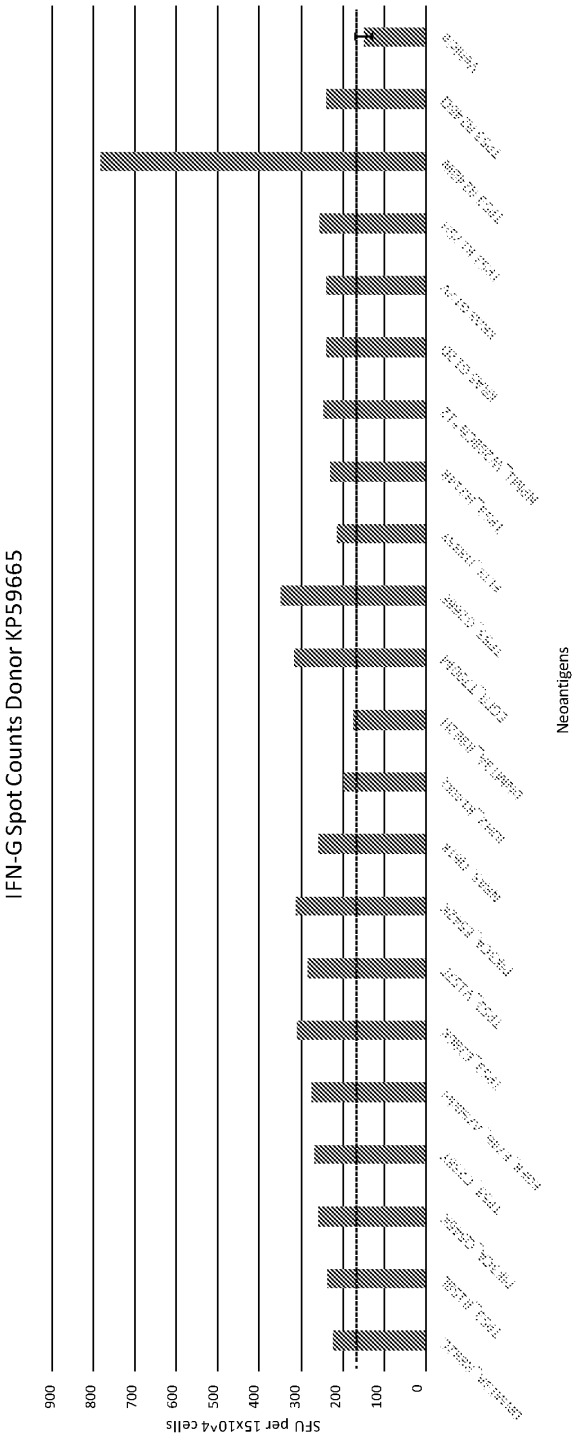


FIG. 21D

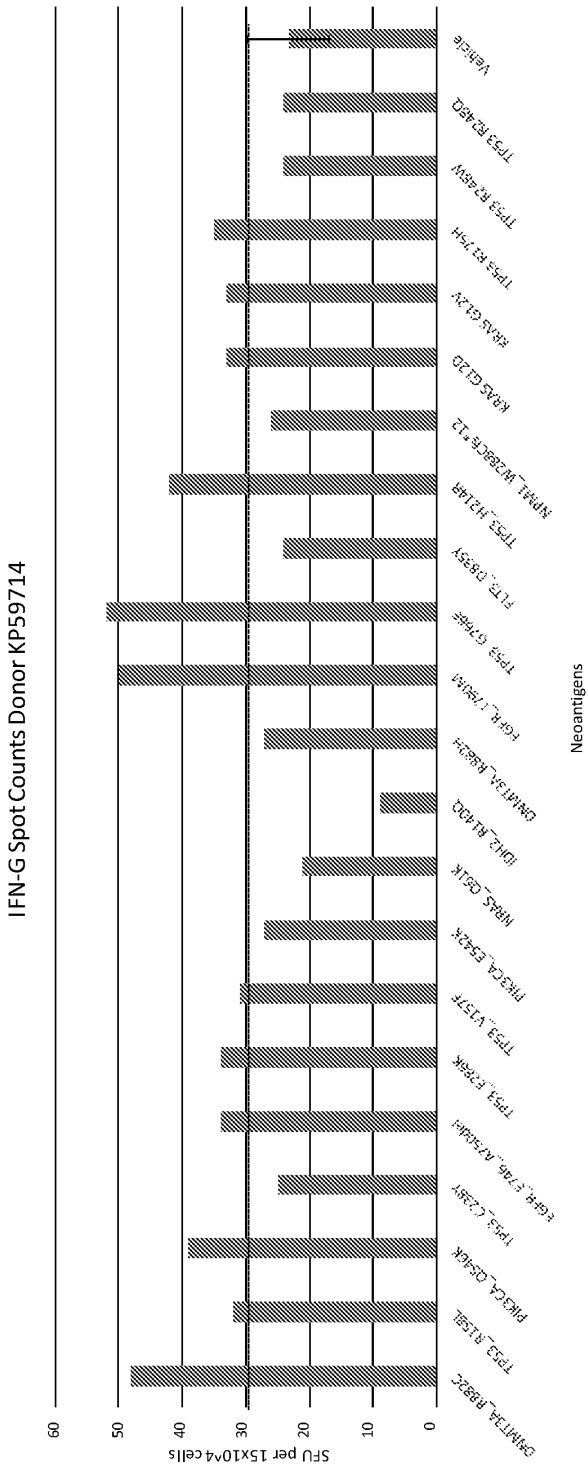


FIG. 21E

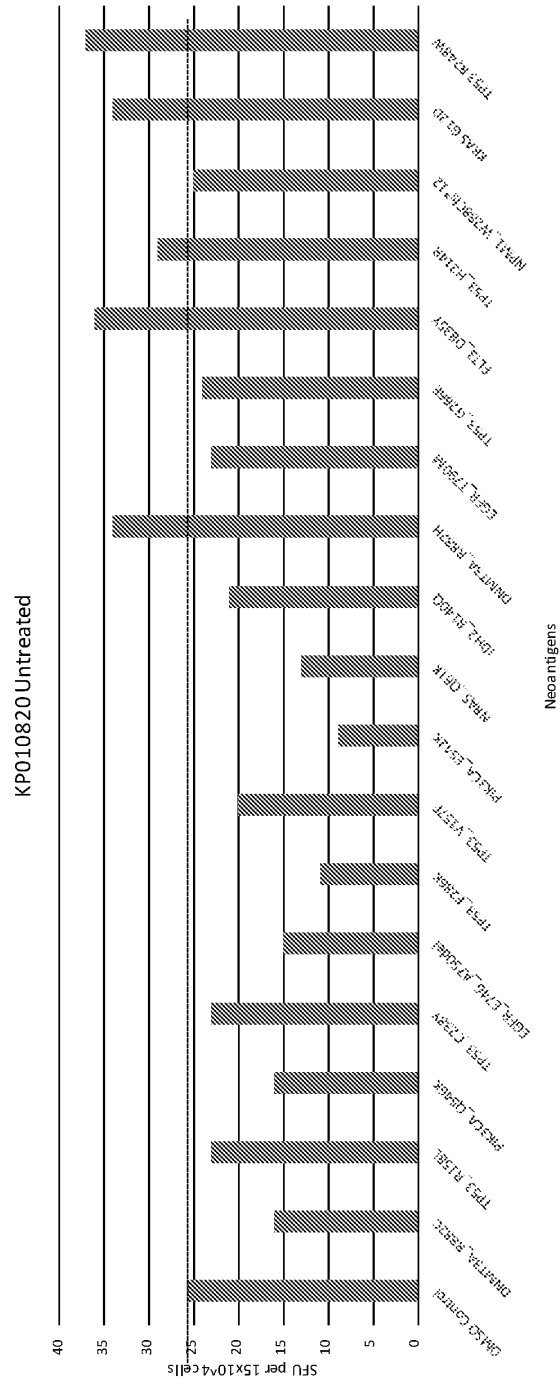


FIG. 22A

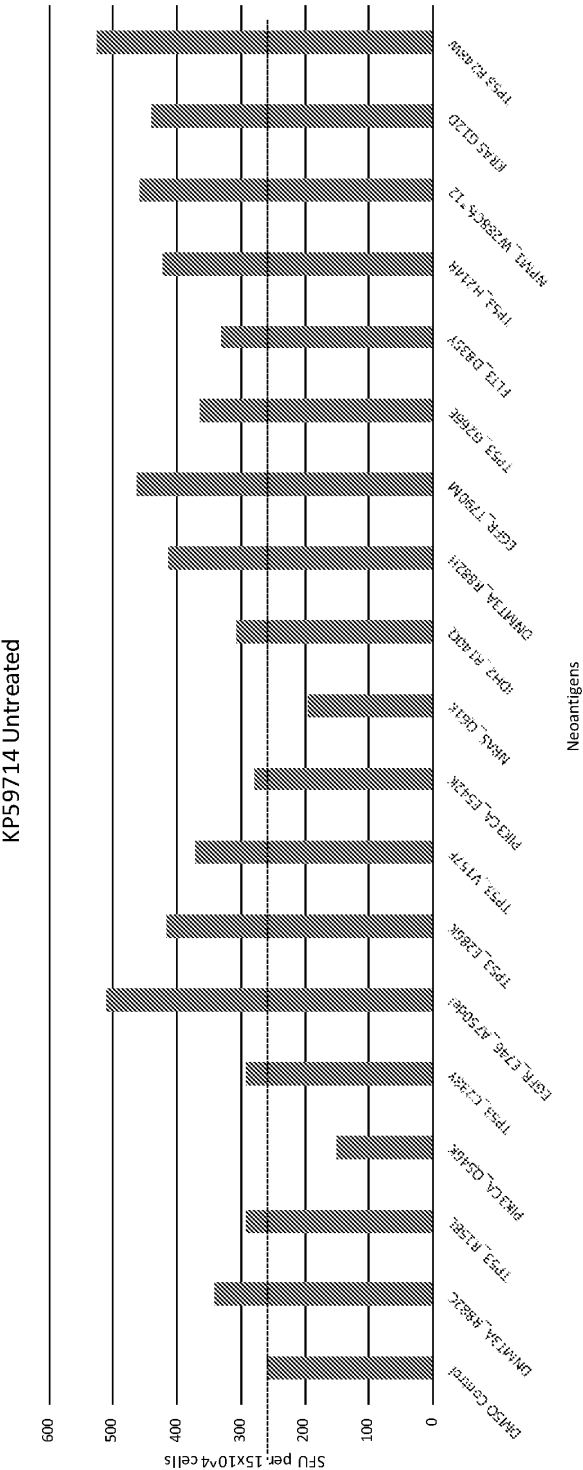
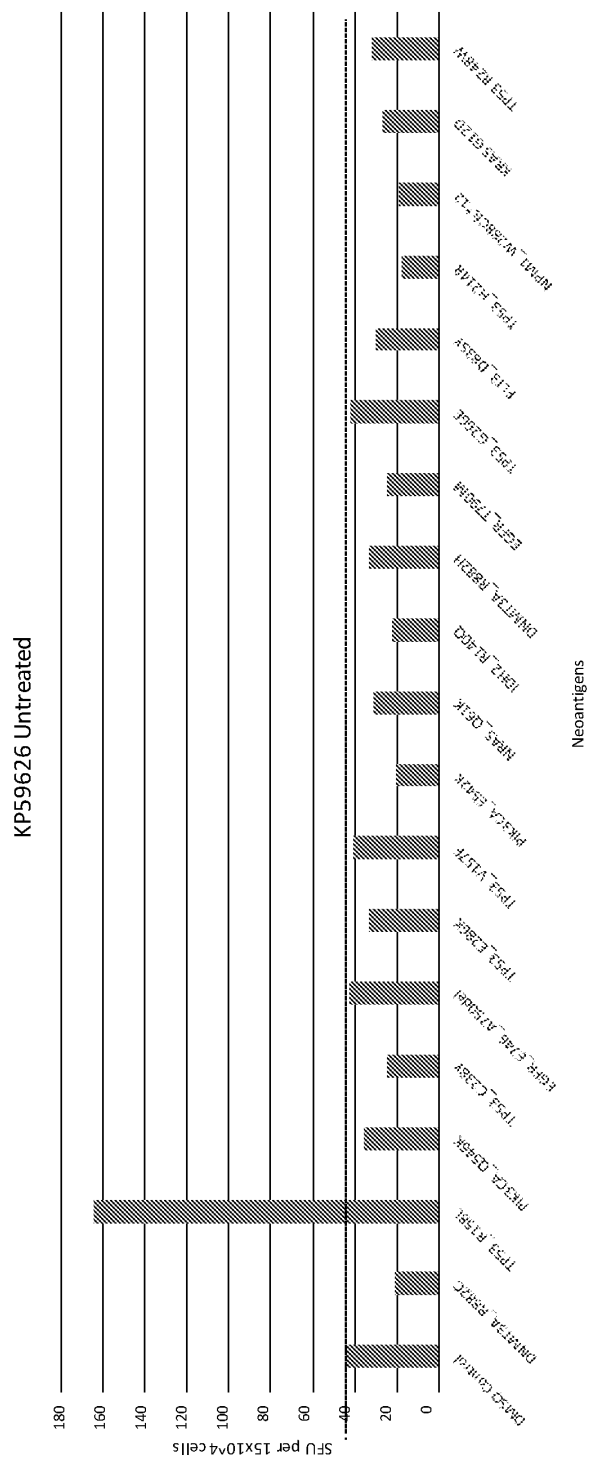


FIG. 22B



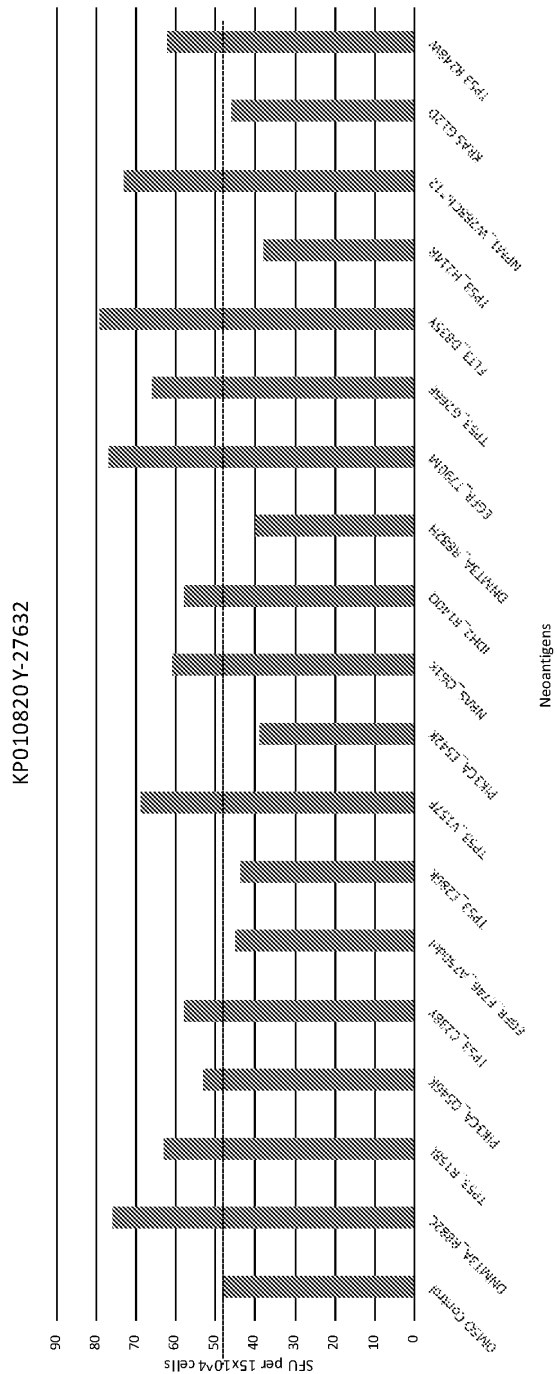


FIG. 22D

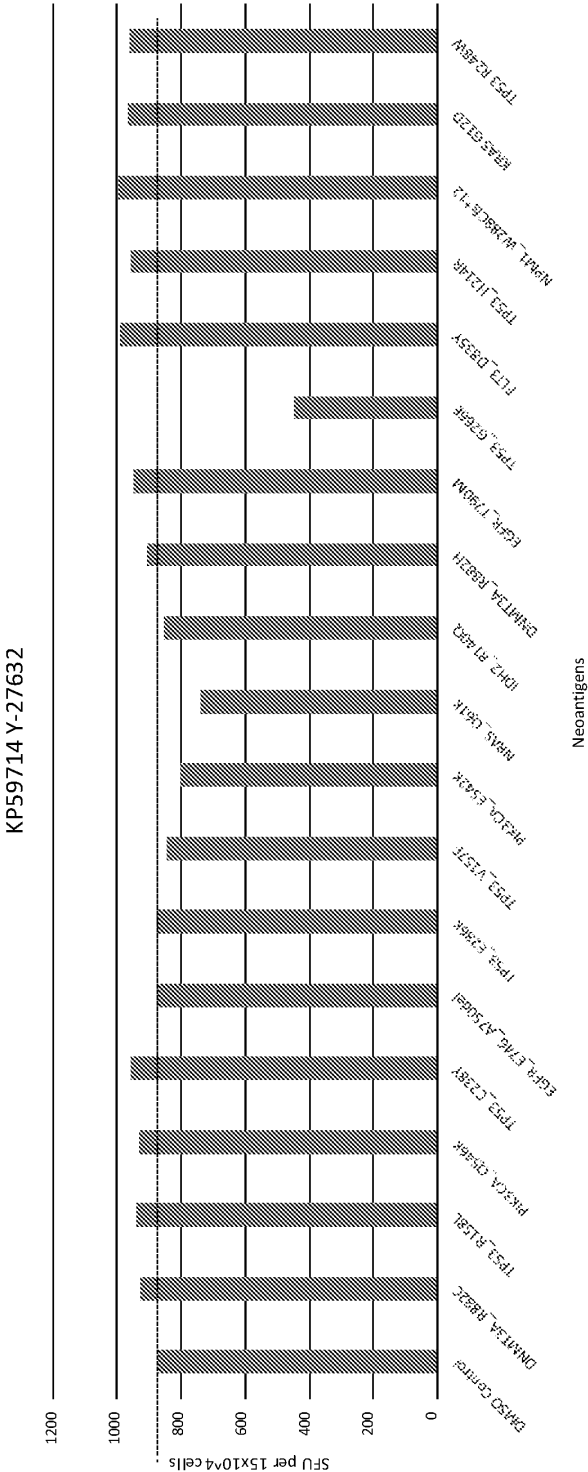


FIG. 22E

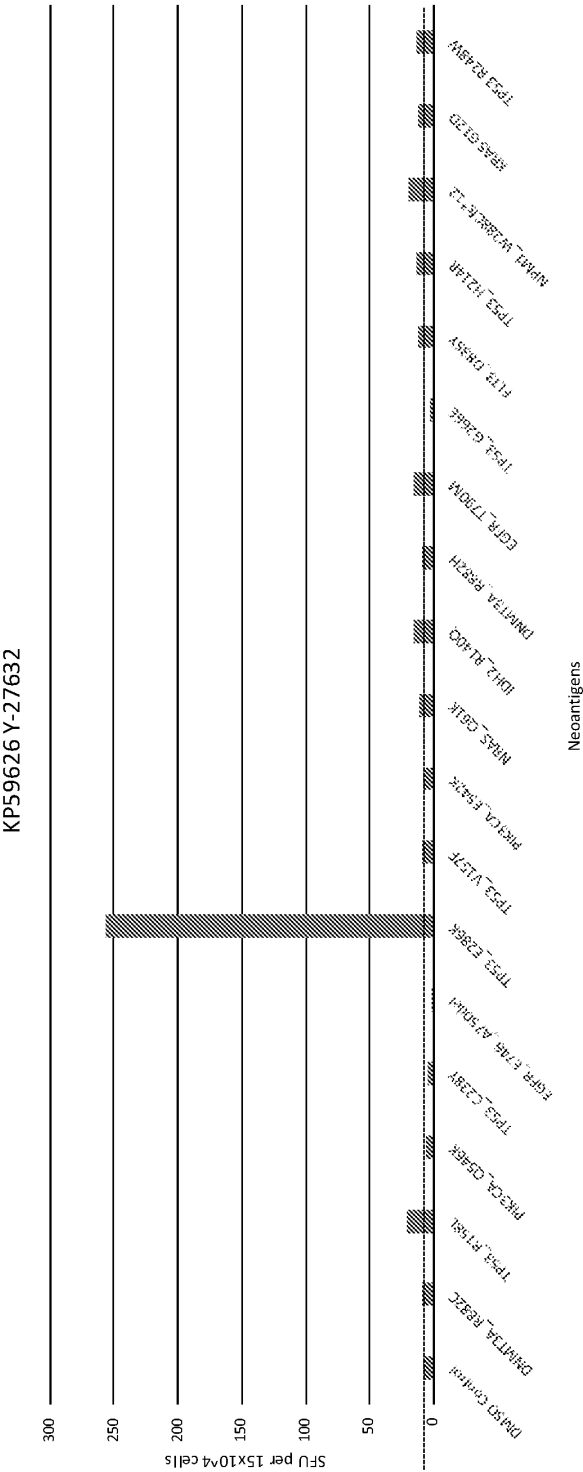


FIG. 22F

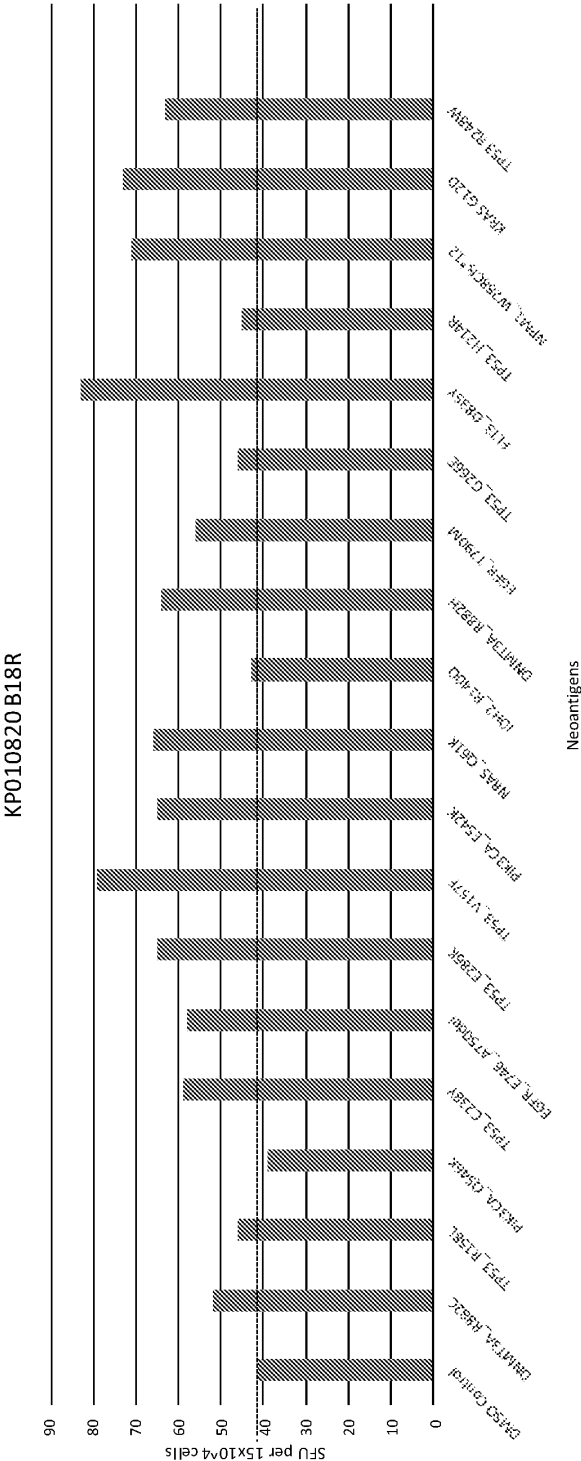


FIG. 22G

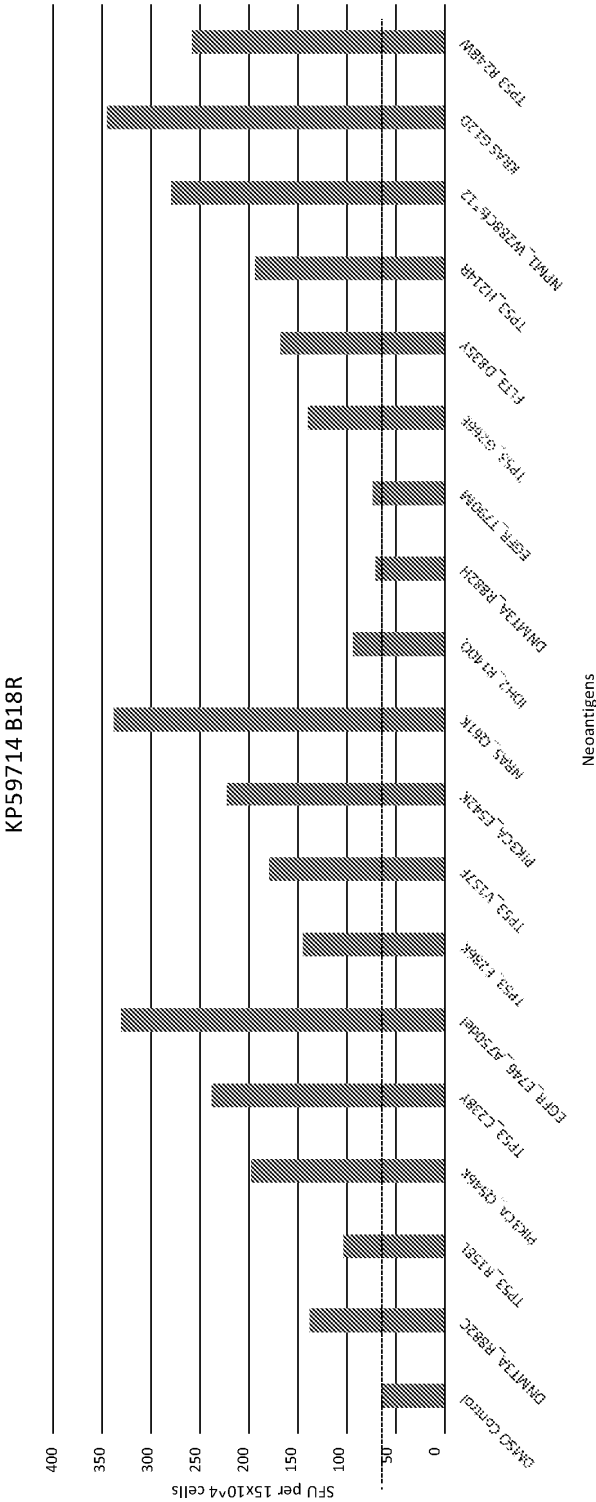


FIG. 22H

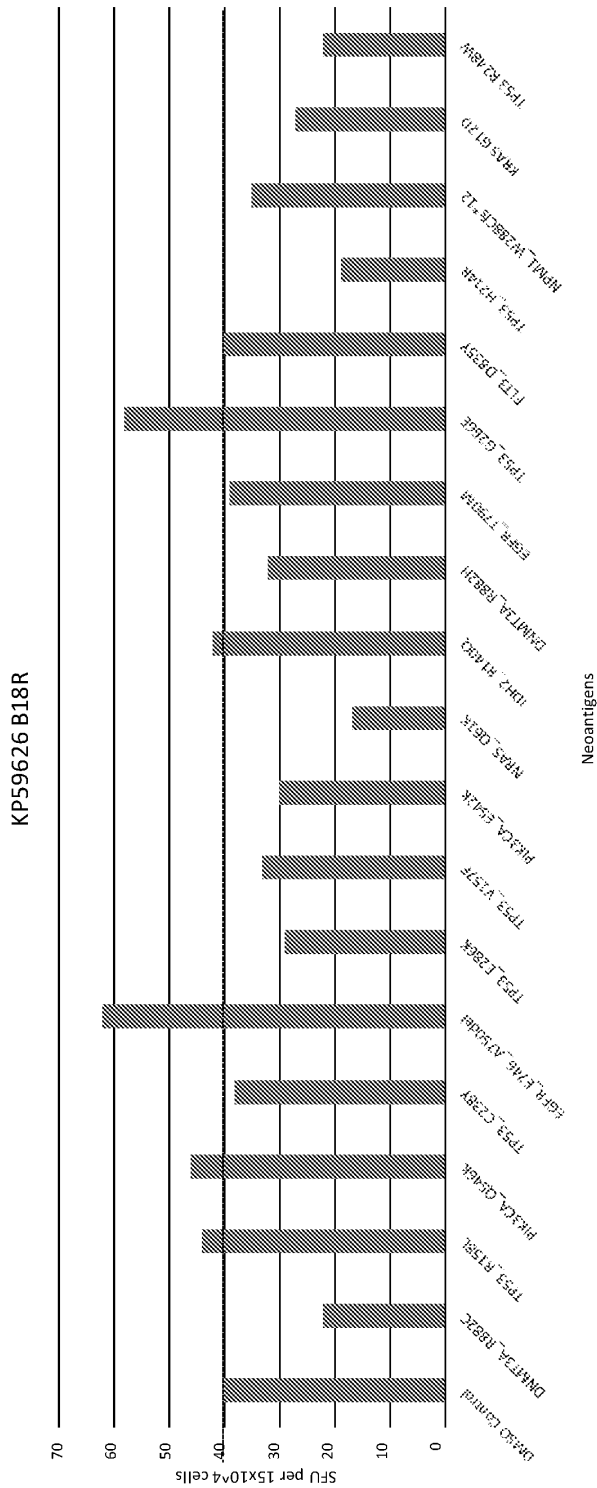


FIG. 22I

KP59603

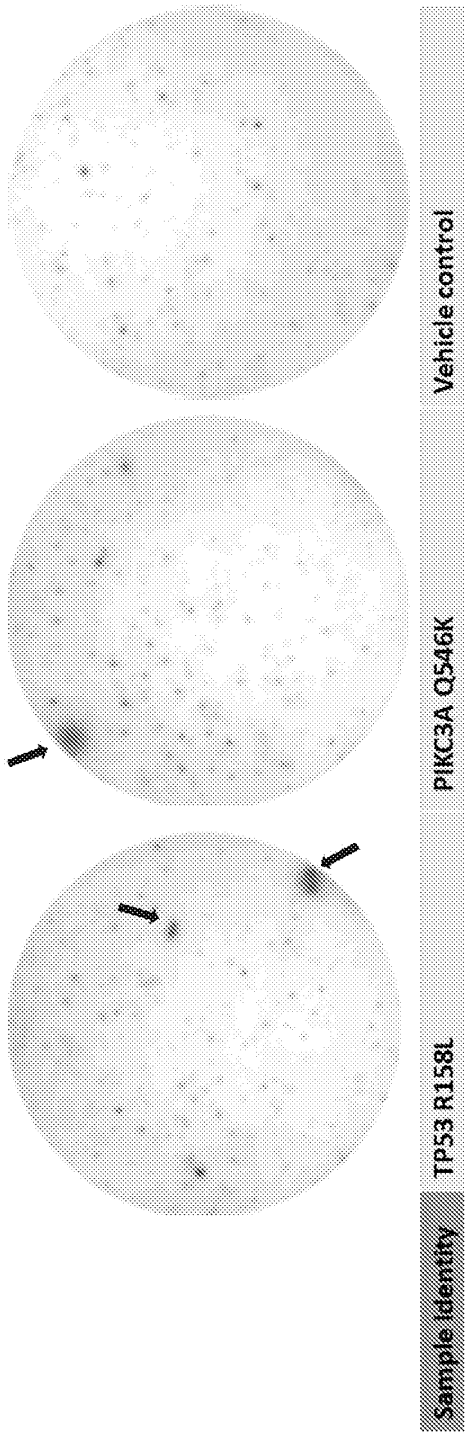


FIG. 23

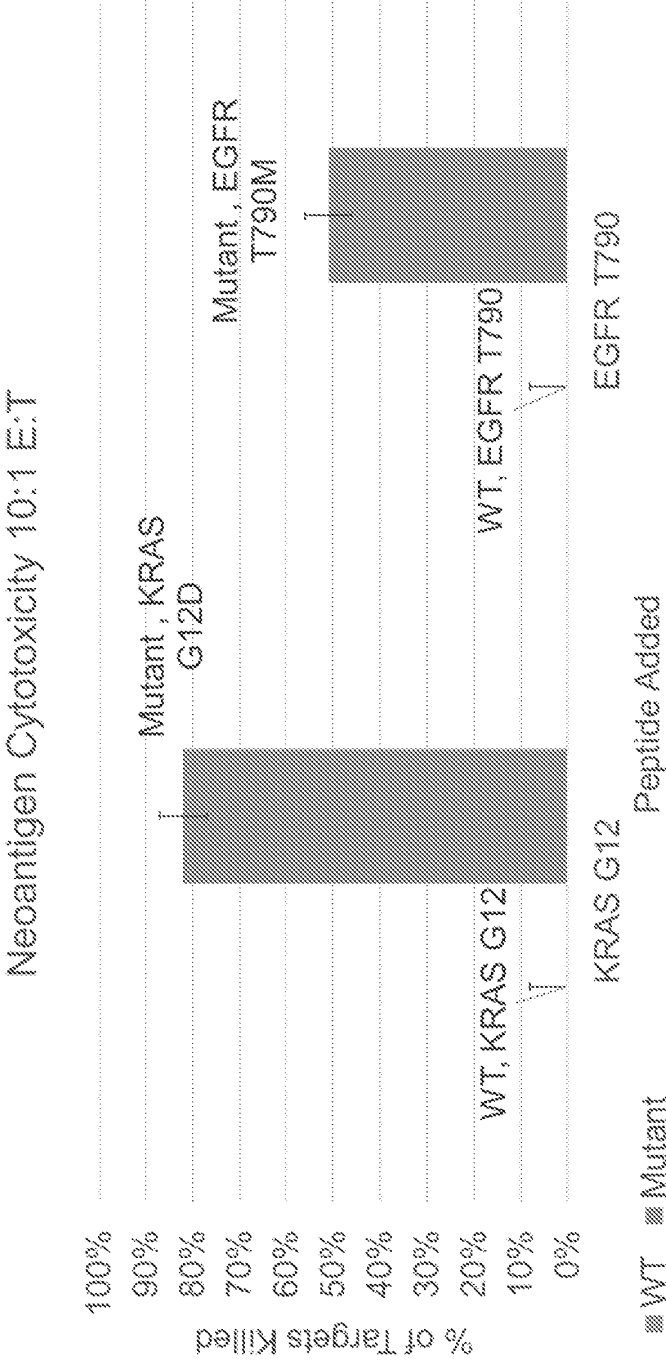


FIG. 24A

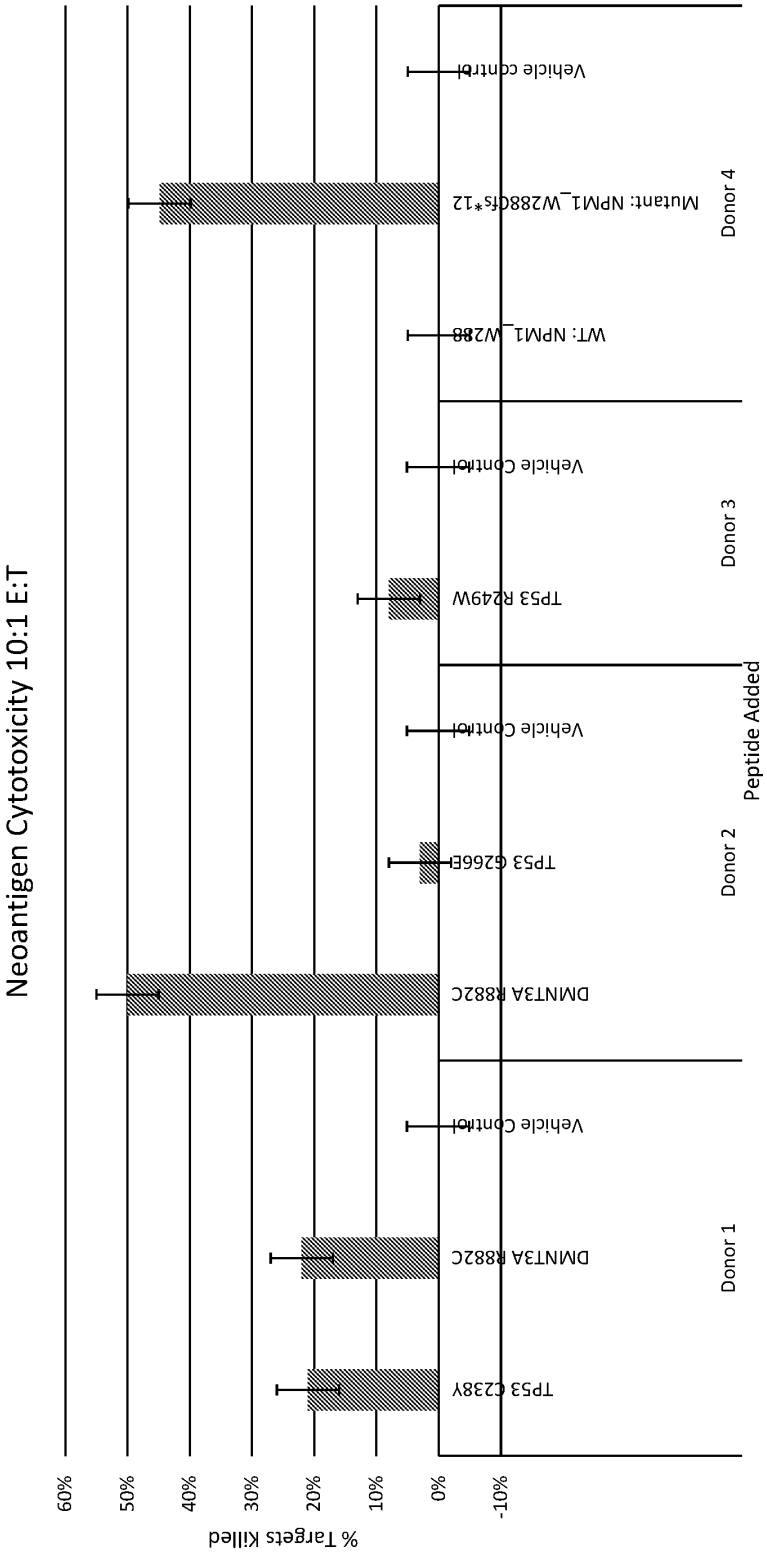


FIG. 24 B

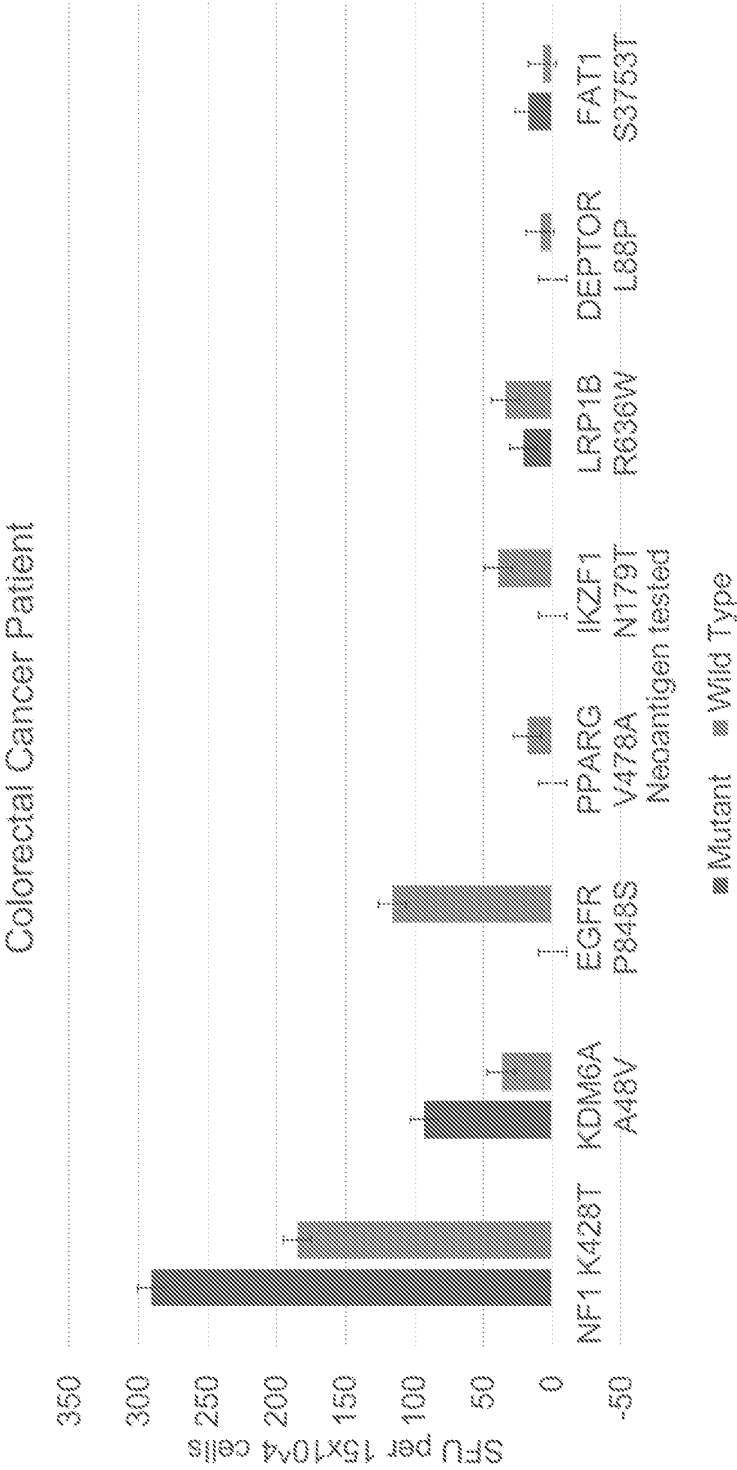
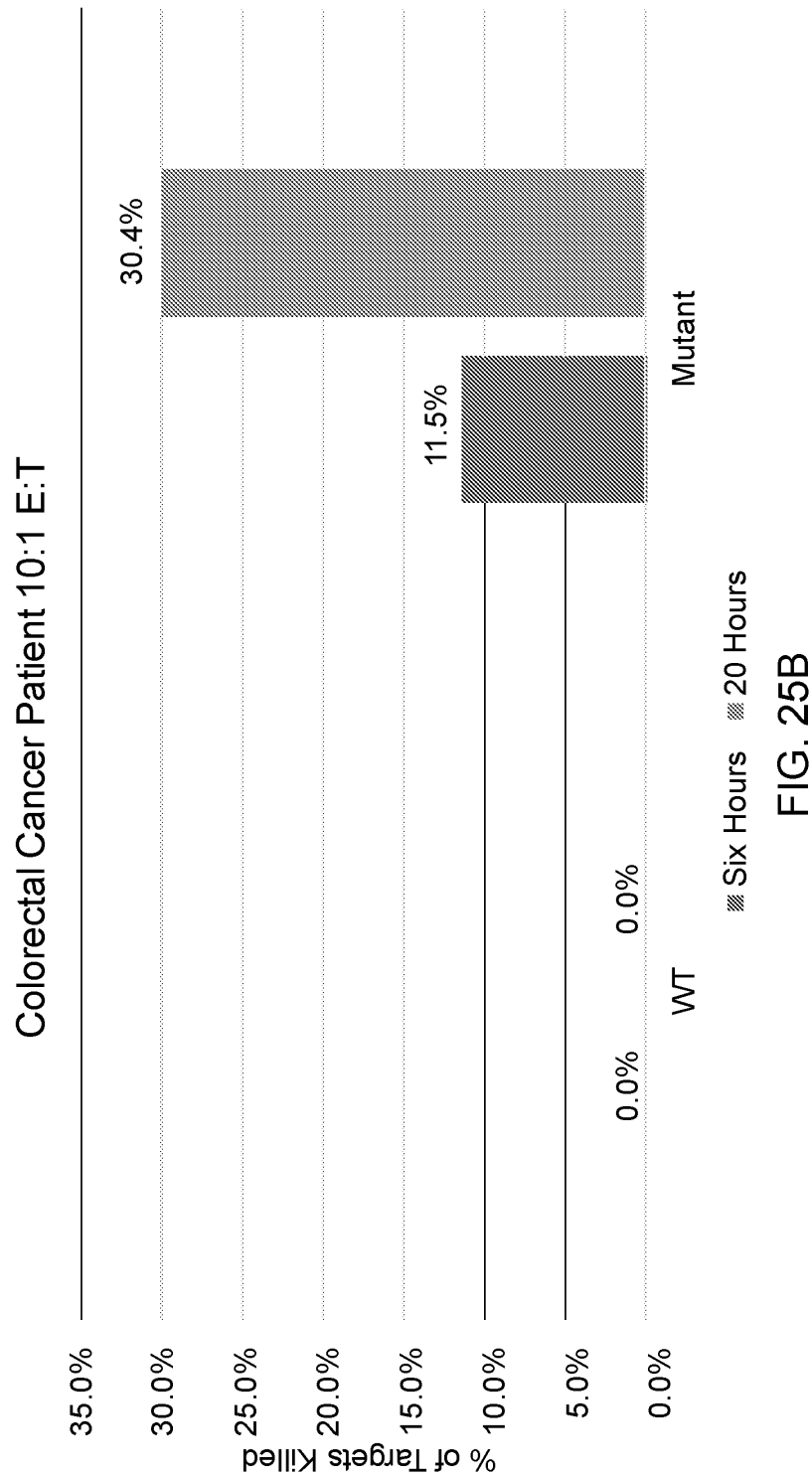


FIG. 25A



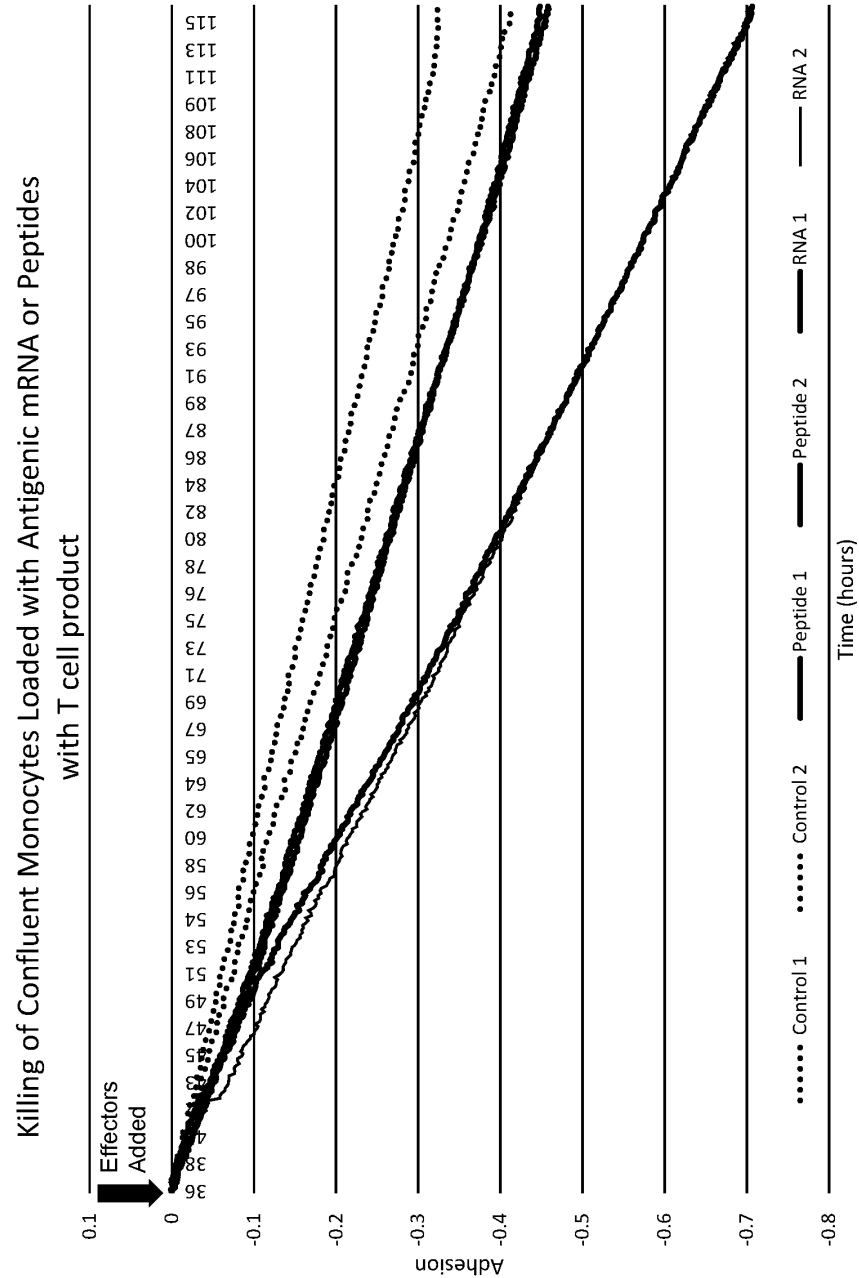


FIG. 26

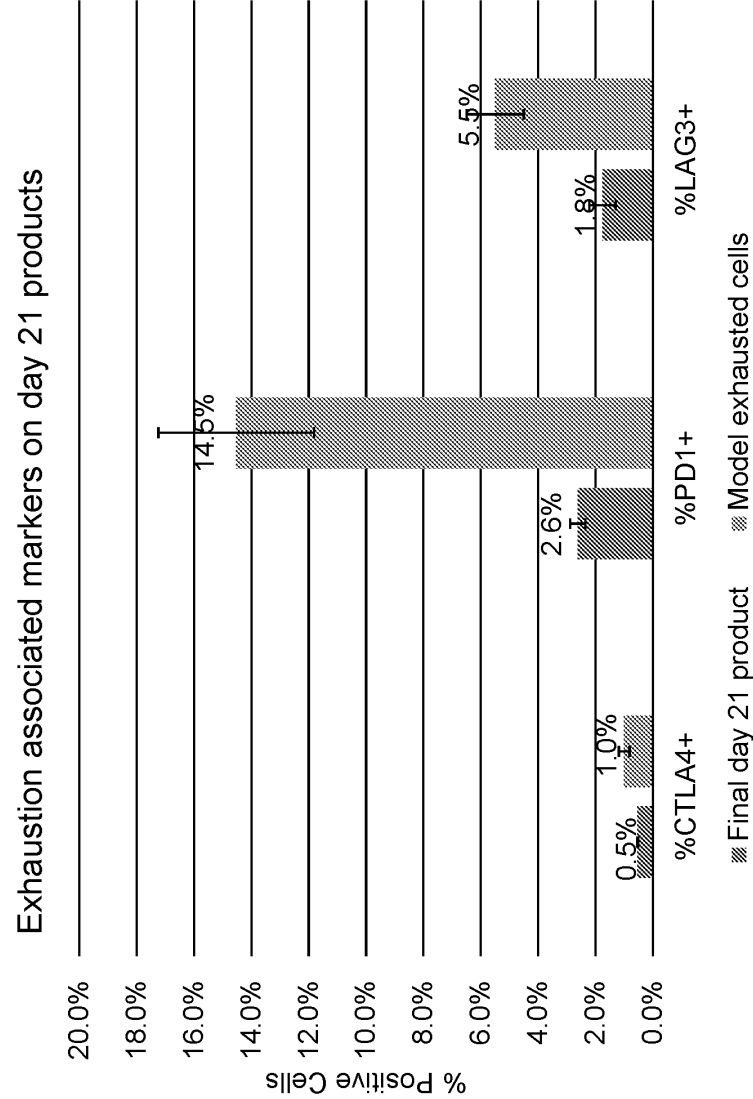


FIG. 27

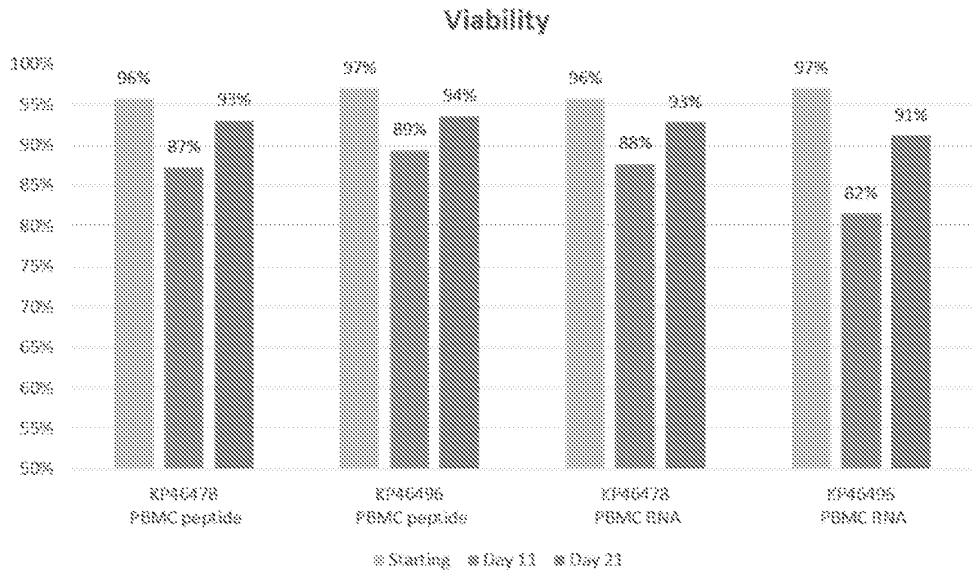


FIG. 28A

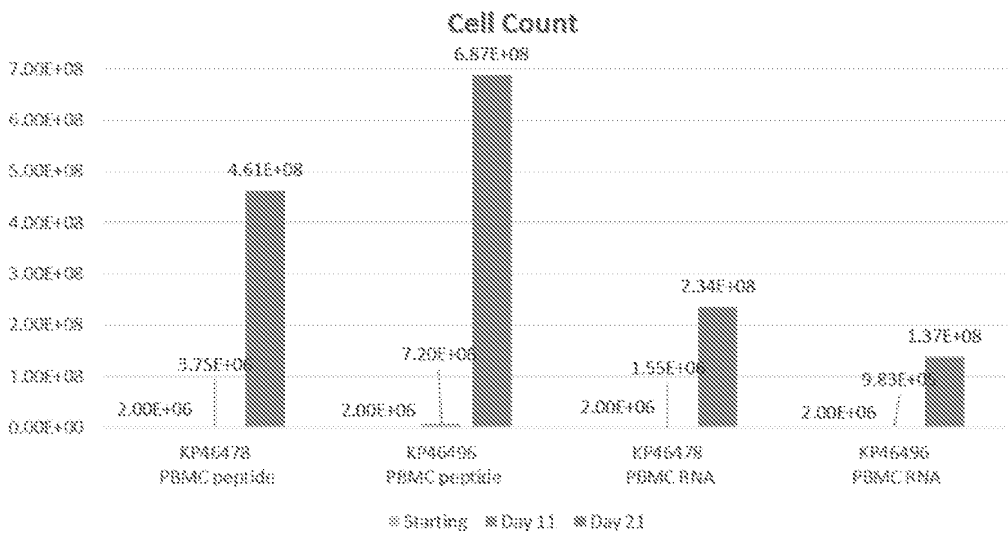


FIG. 28B

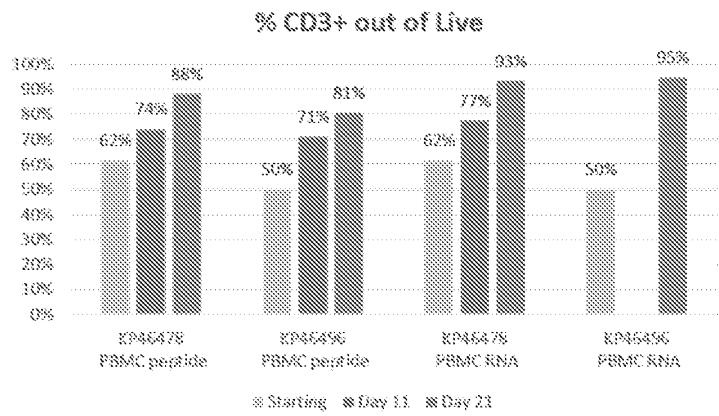


FIG. 29A

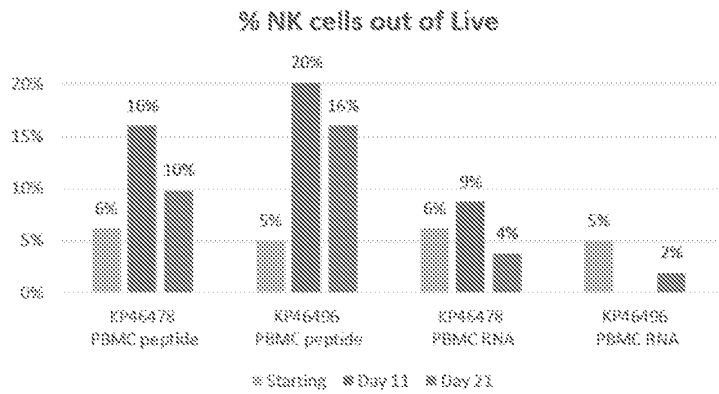


FIG. 29B

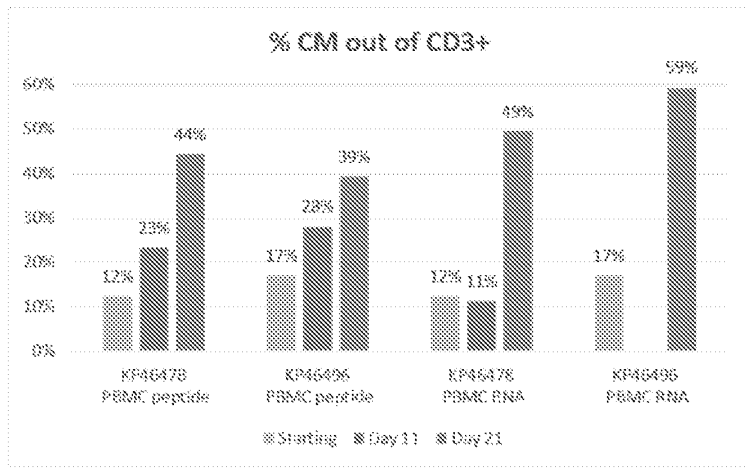


FIG. 29C



FIG. 30A

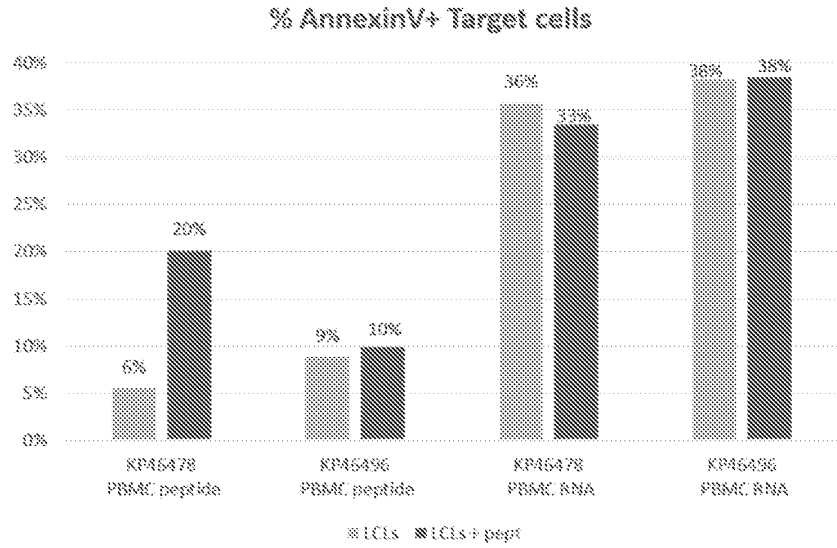


FIG. 30B

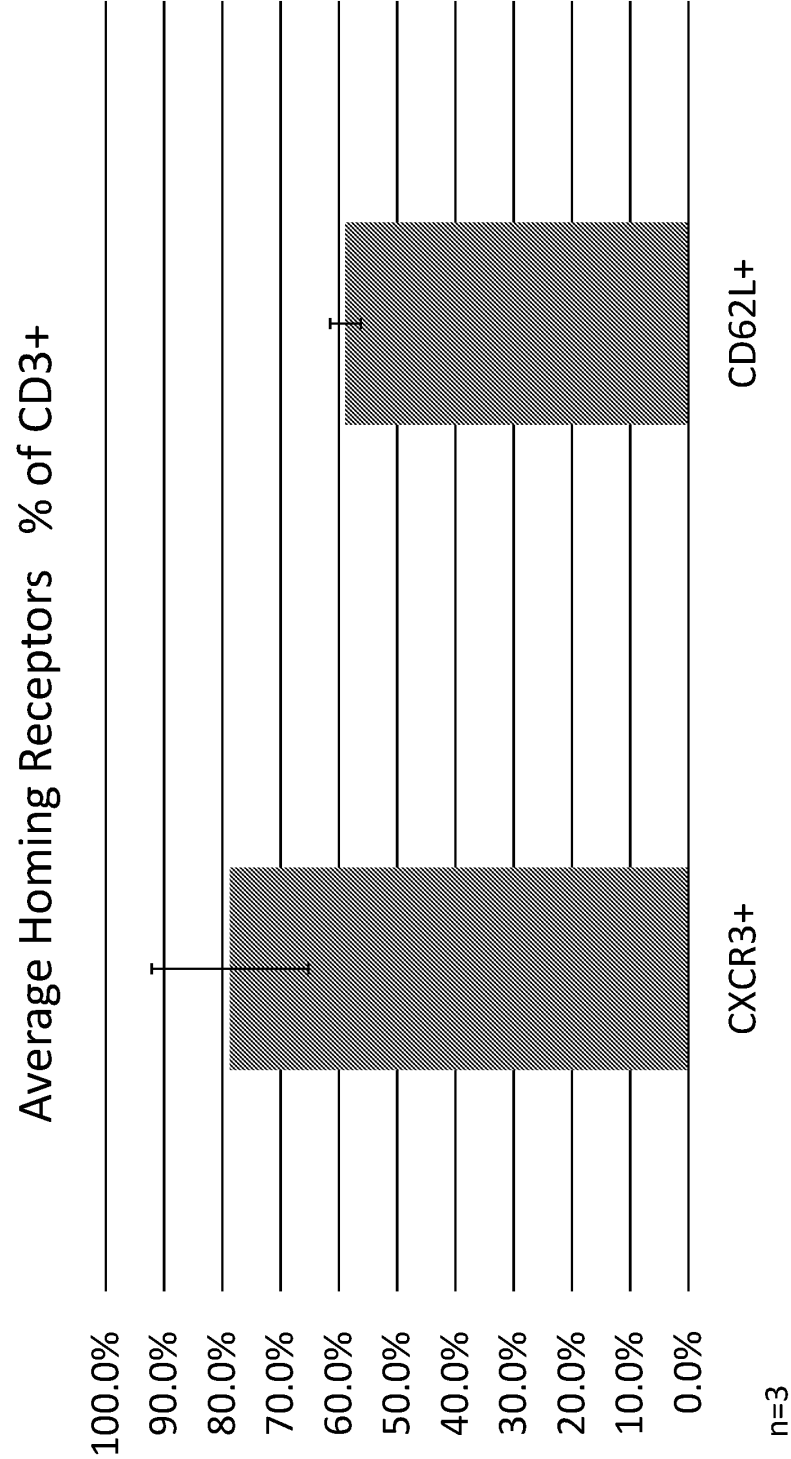


FIG. 31A

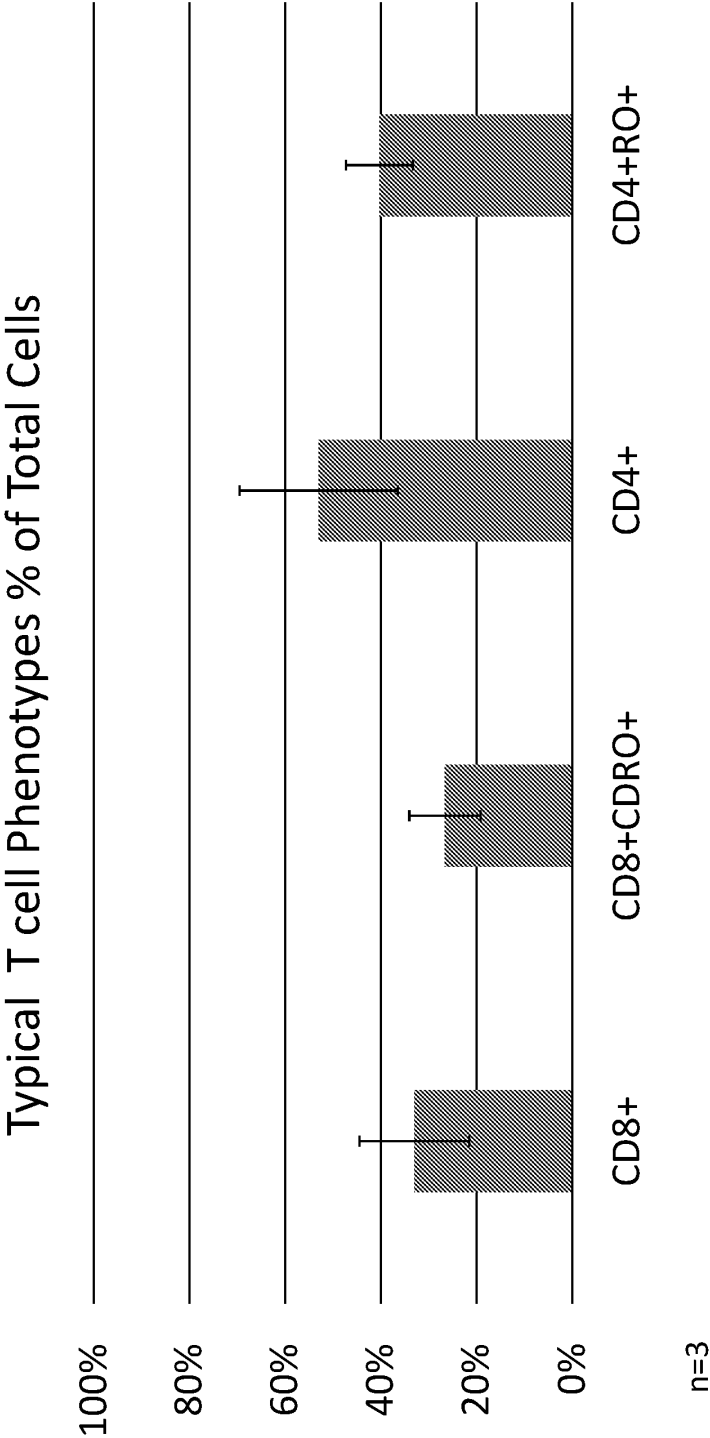


FIG. 31B

T regulatory cell percentage

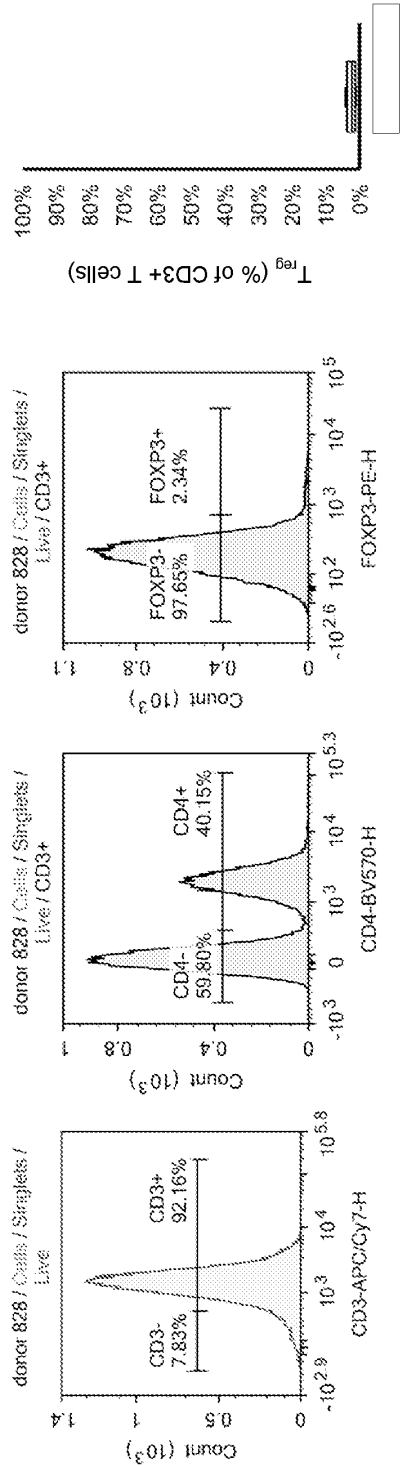


FIG. 31 C

FIG. 31 D

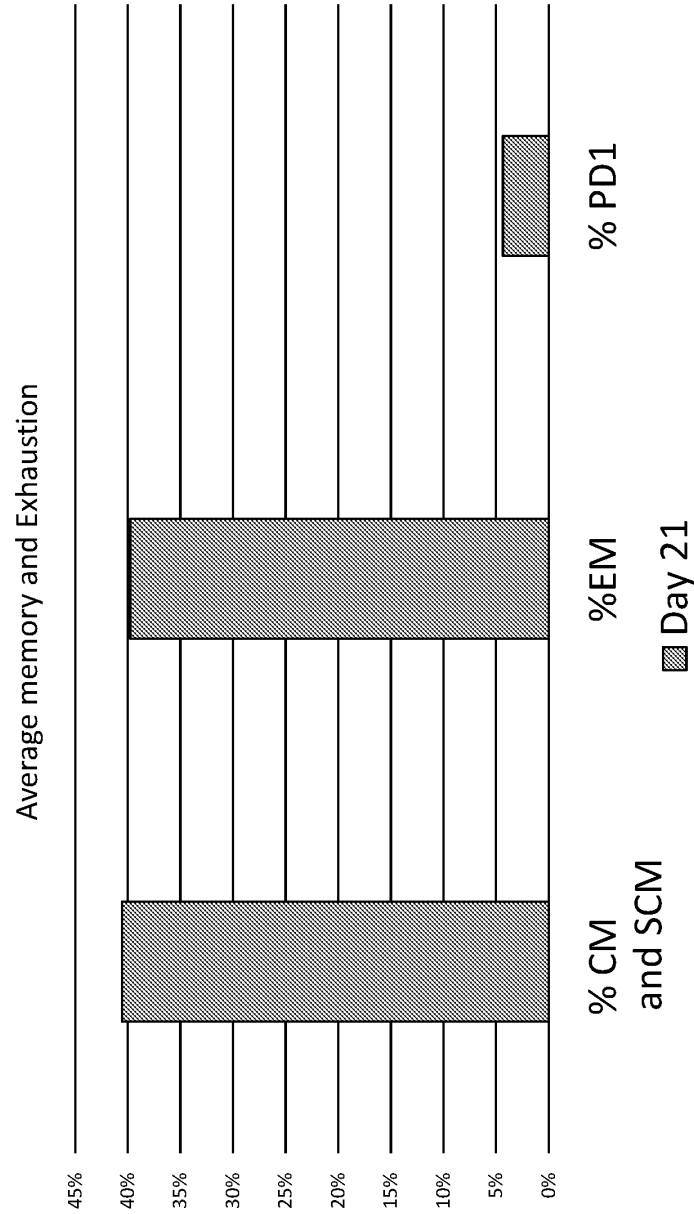


FIG. 31E

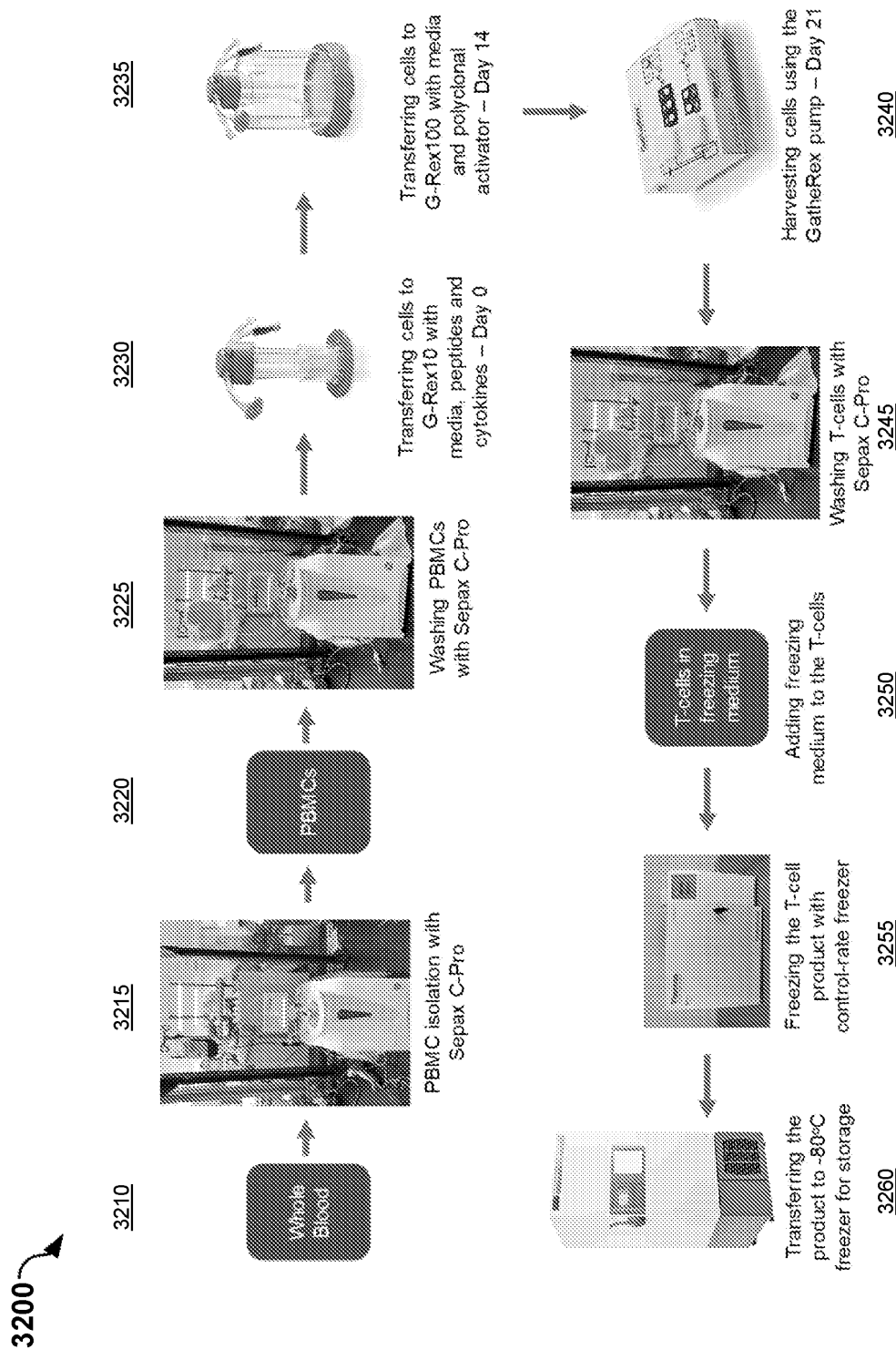


FIG. 32

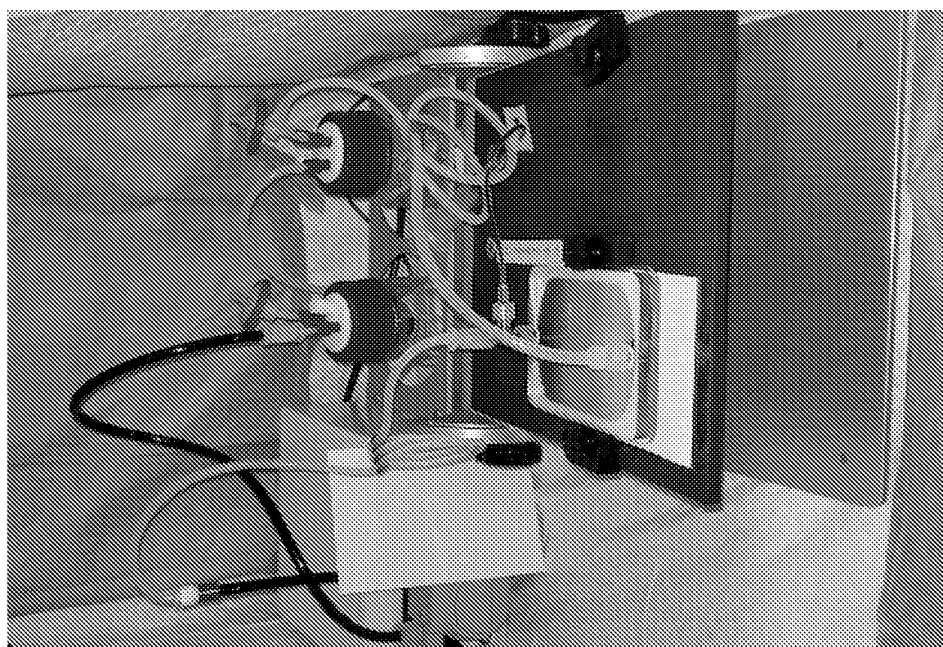
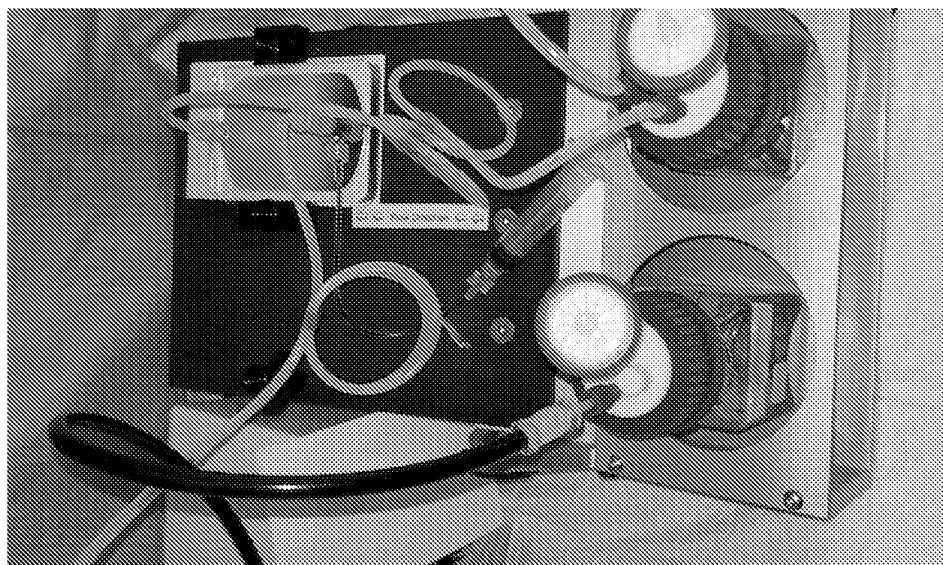


FIG. 33A

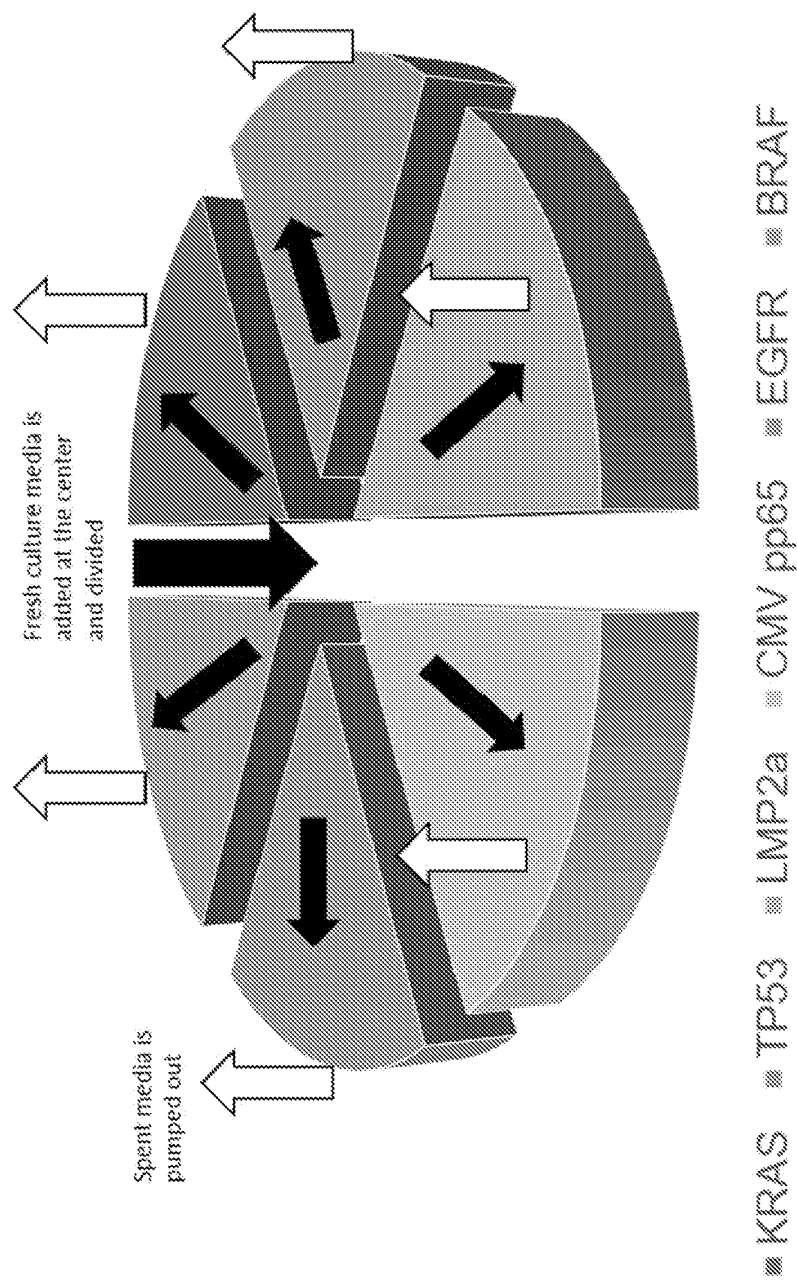


FIG. 33B

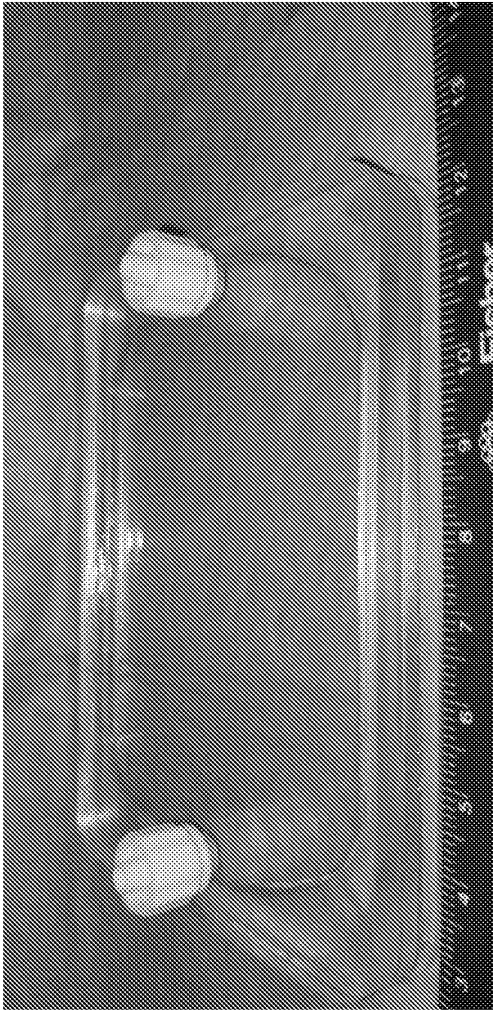
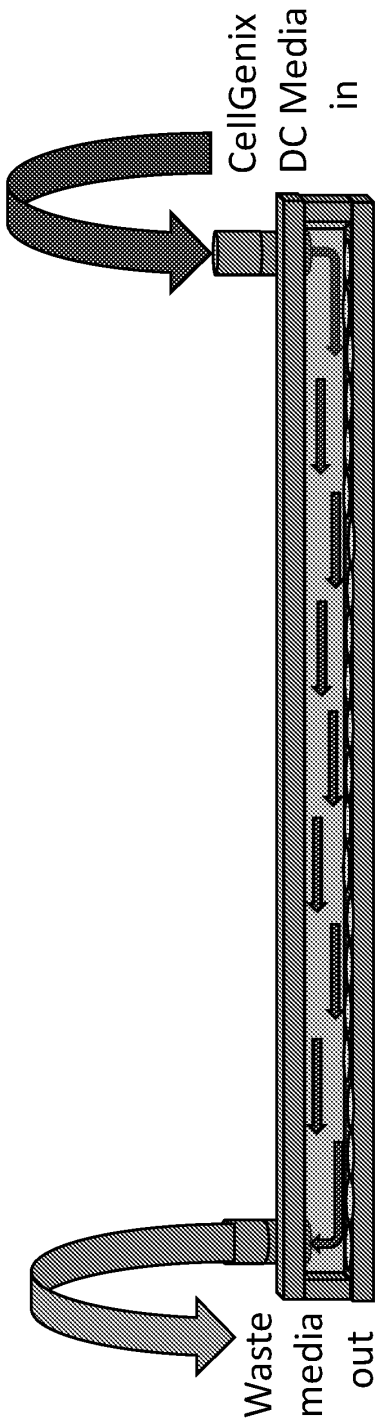


FIG. 33C

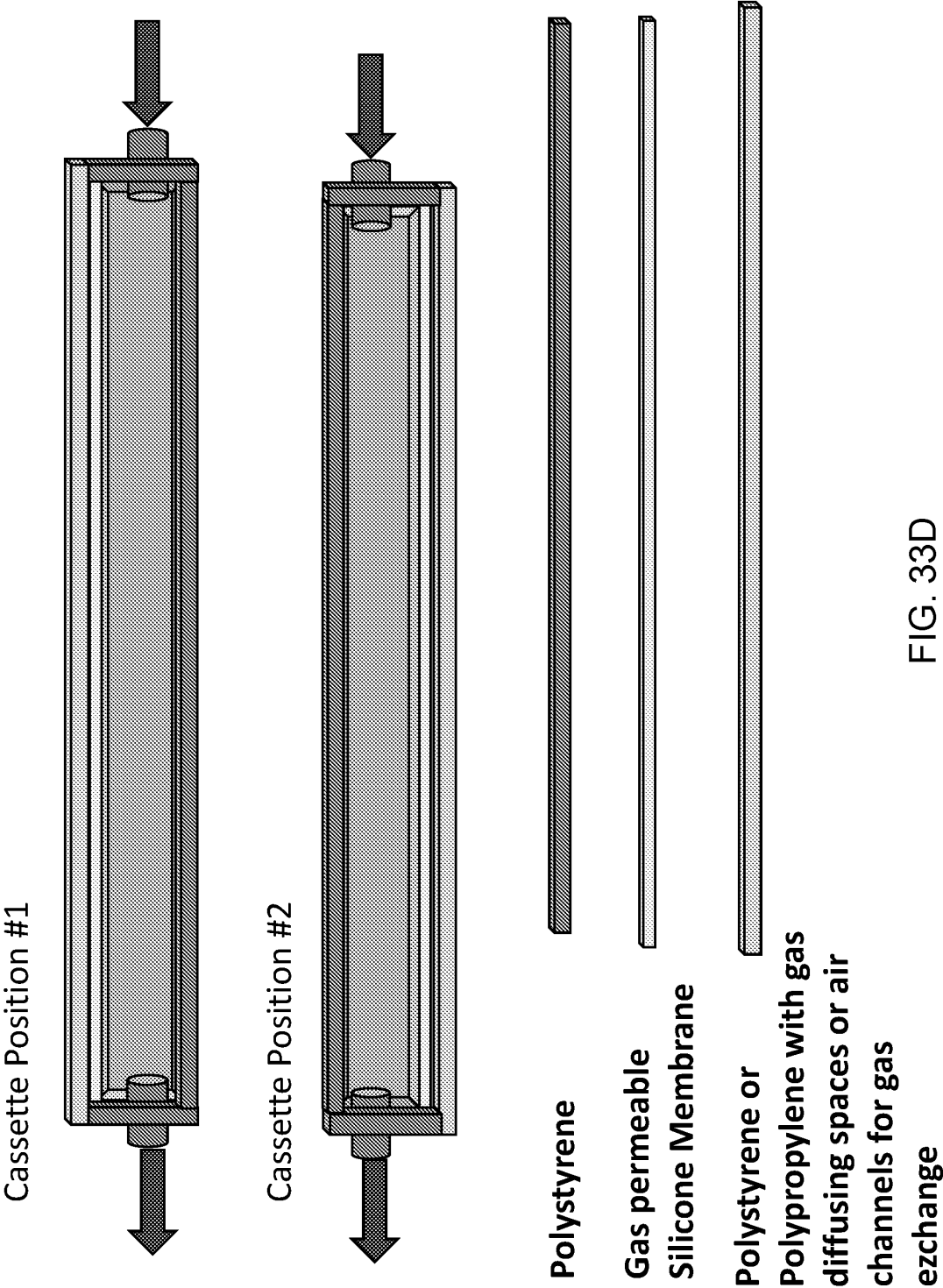


FIG. 33D

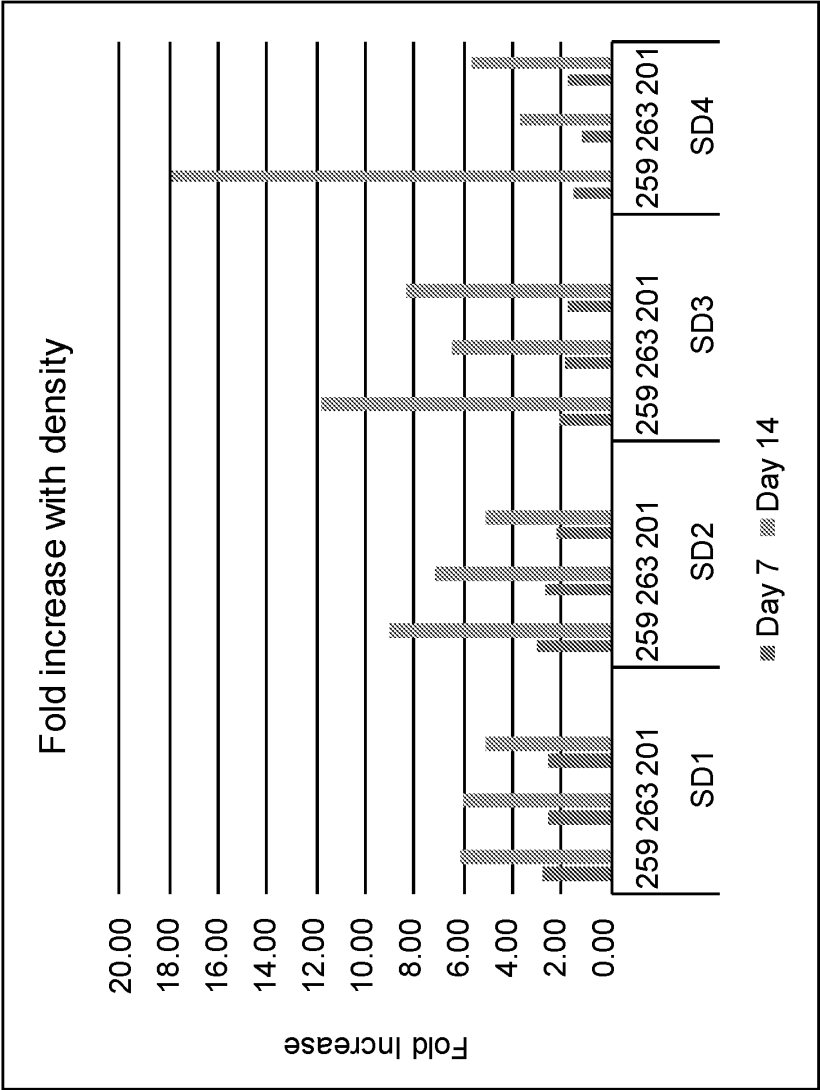


FIG. 34

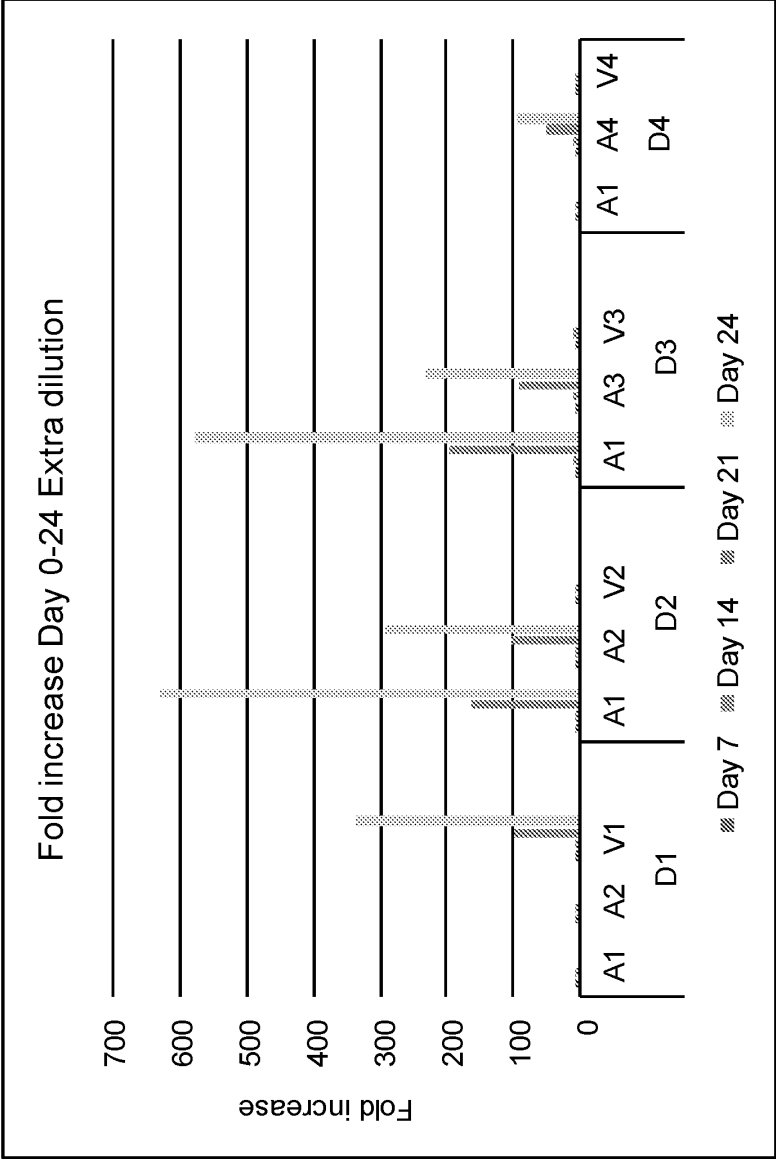


FIG. 35A

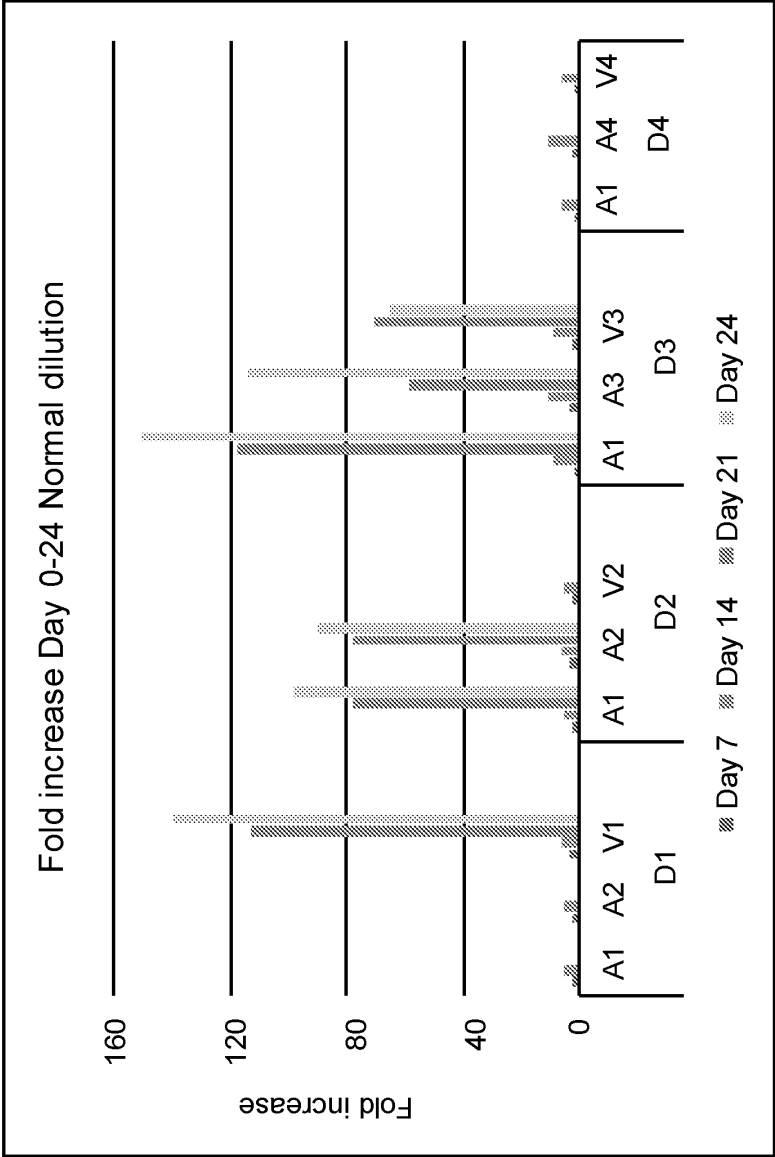


FIG. 35B

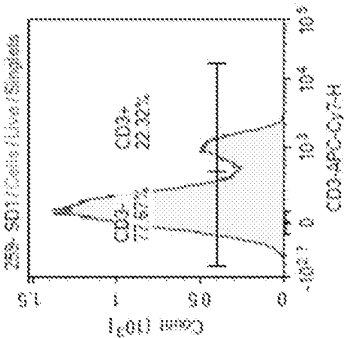


FIG. 36D

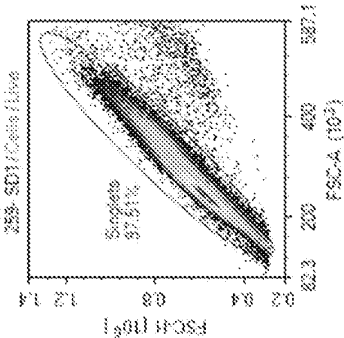


FIG. 36C

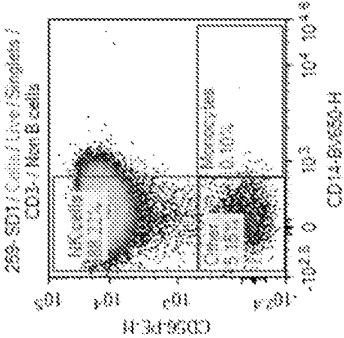


FIG. 36G

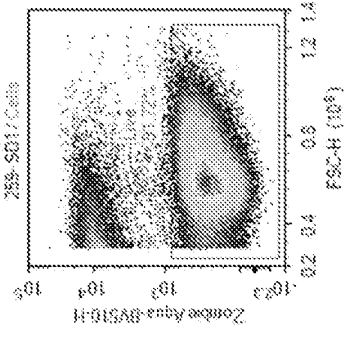


FIG. 36B

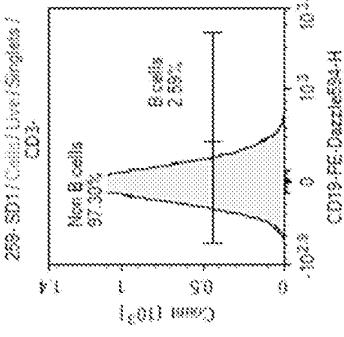


FIG. 36F

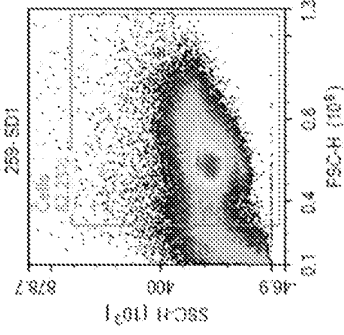


FIG. 36A

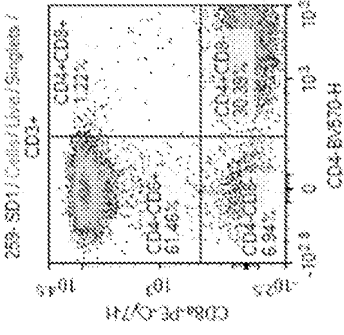


FIG. 36E

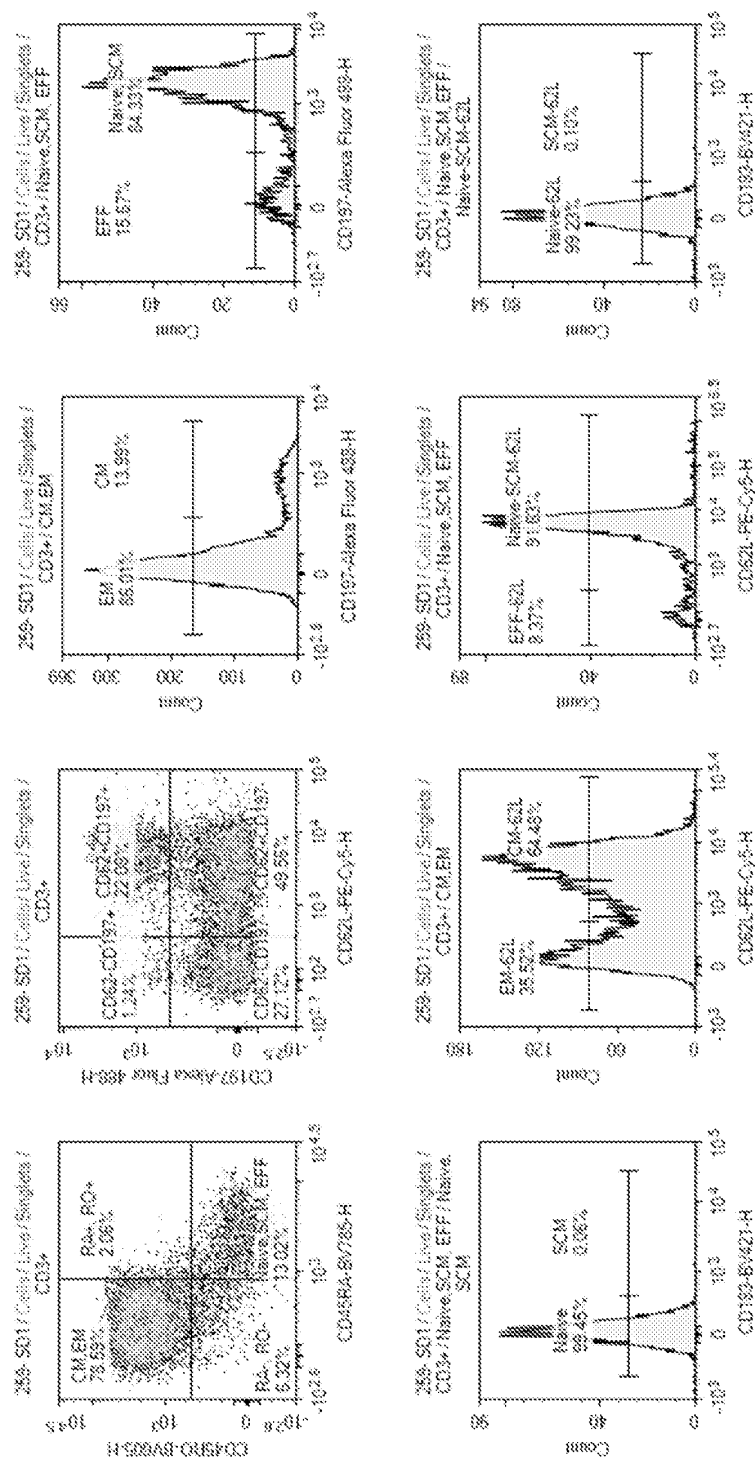


FIG. 37

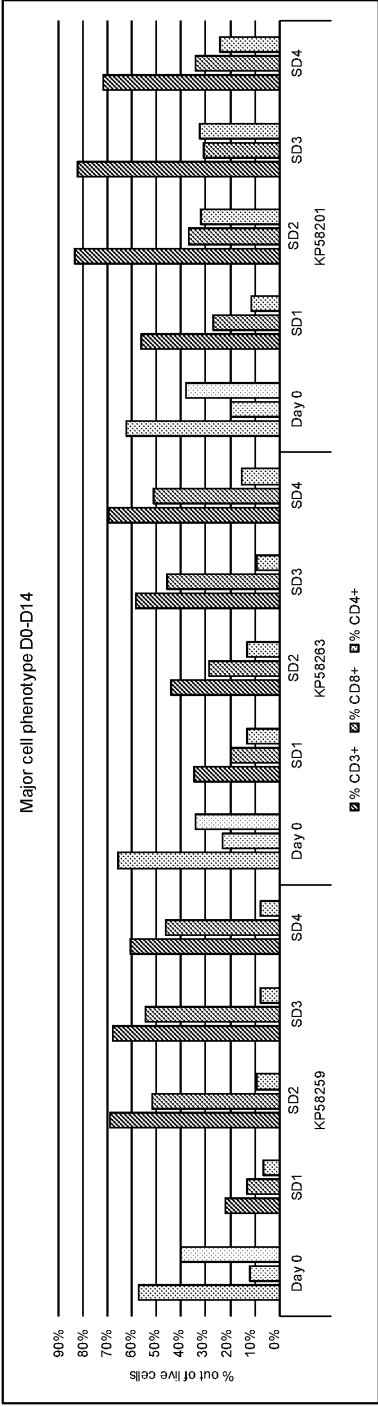


FIG. 38A

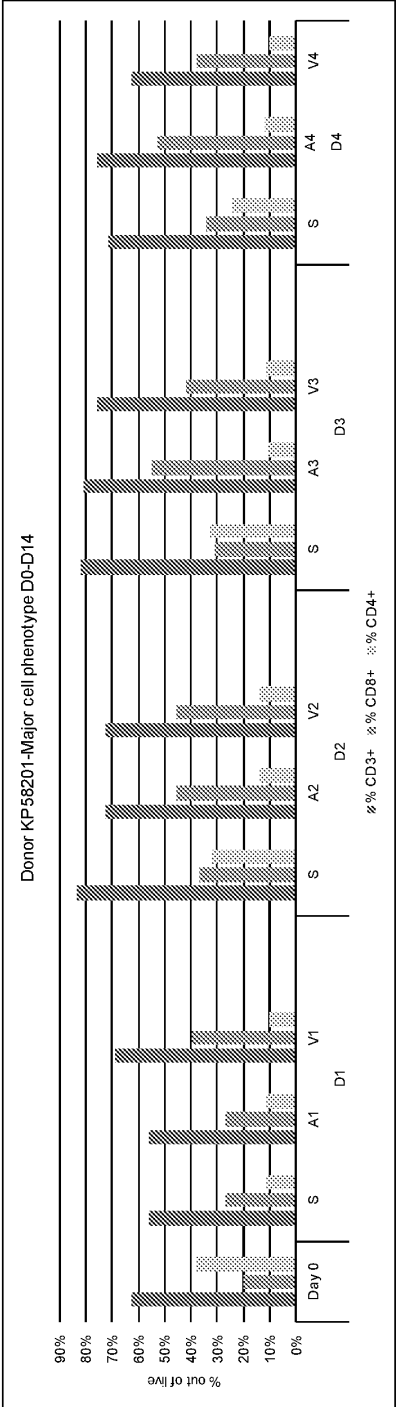


FIG. 38B

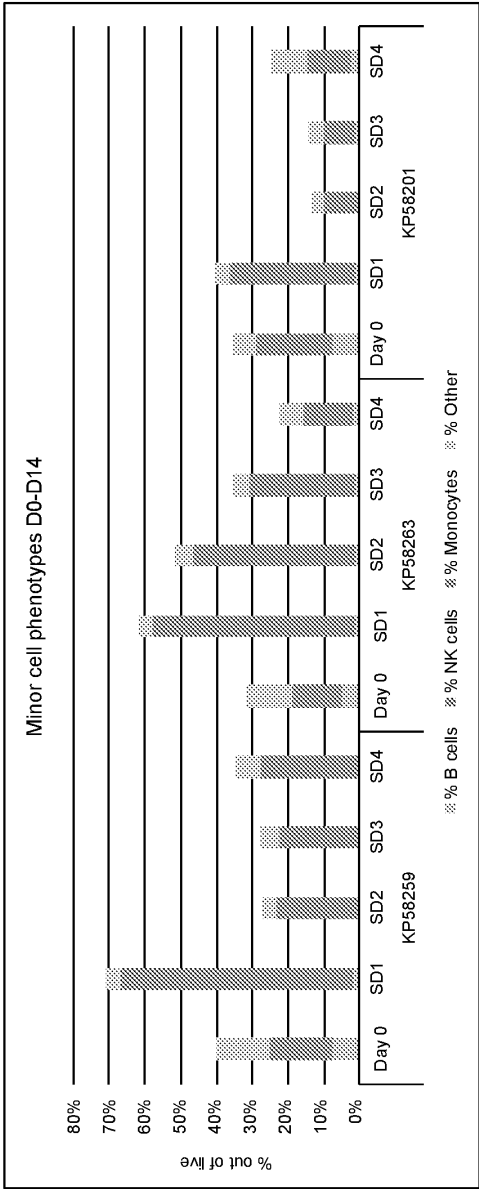


FIG. 39A

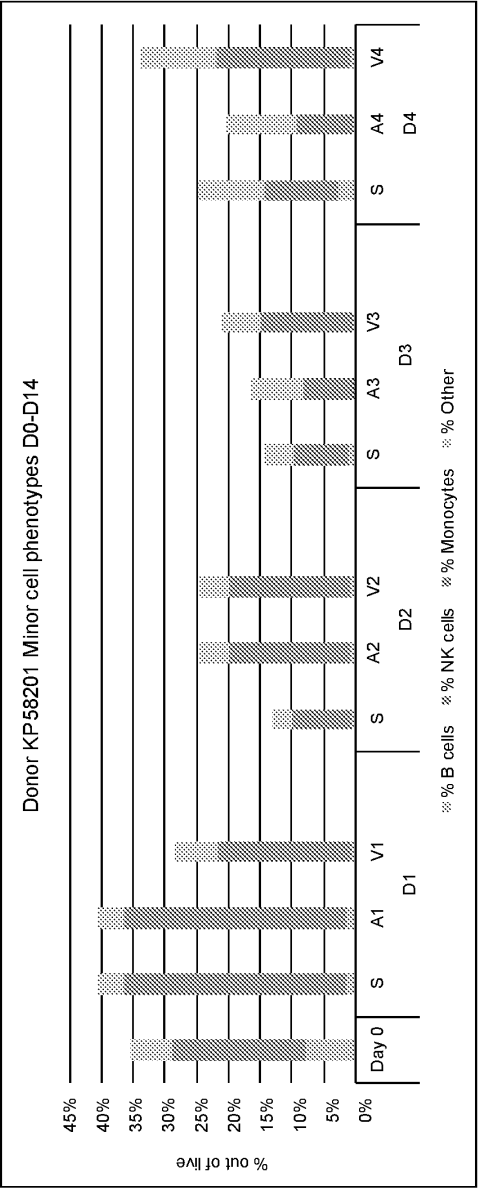


FIG. 39B

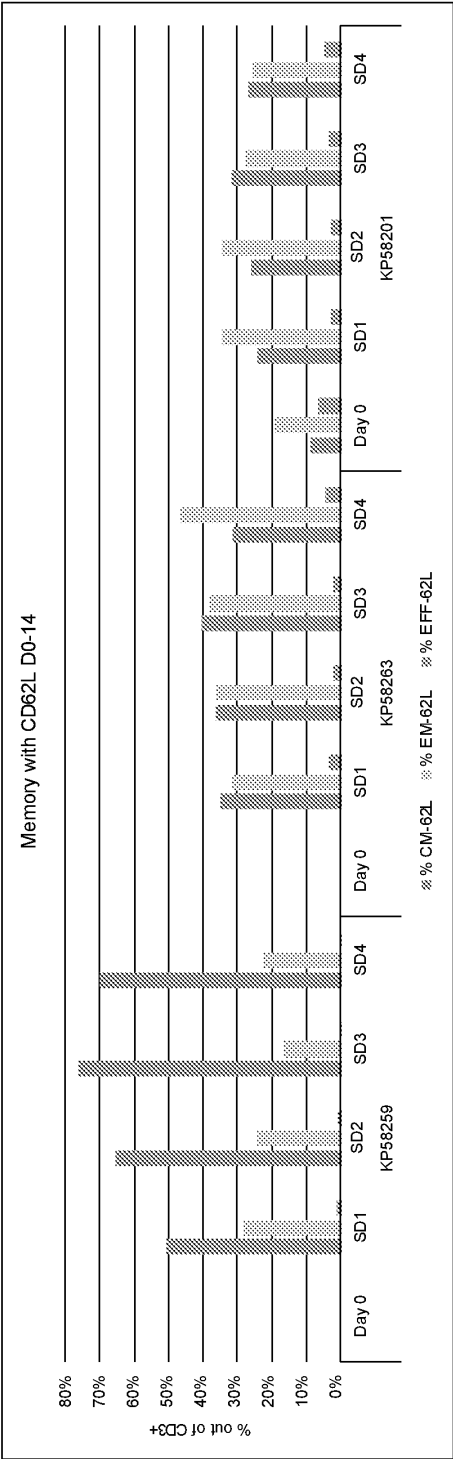


FIG. 40A

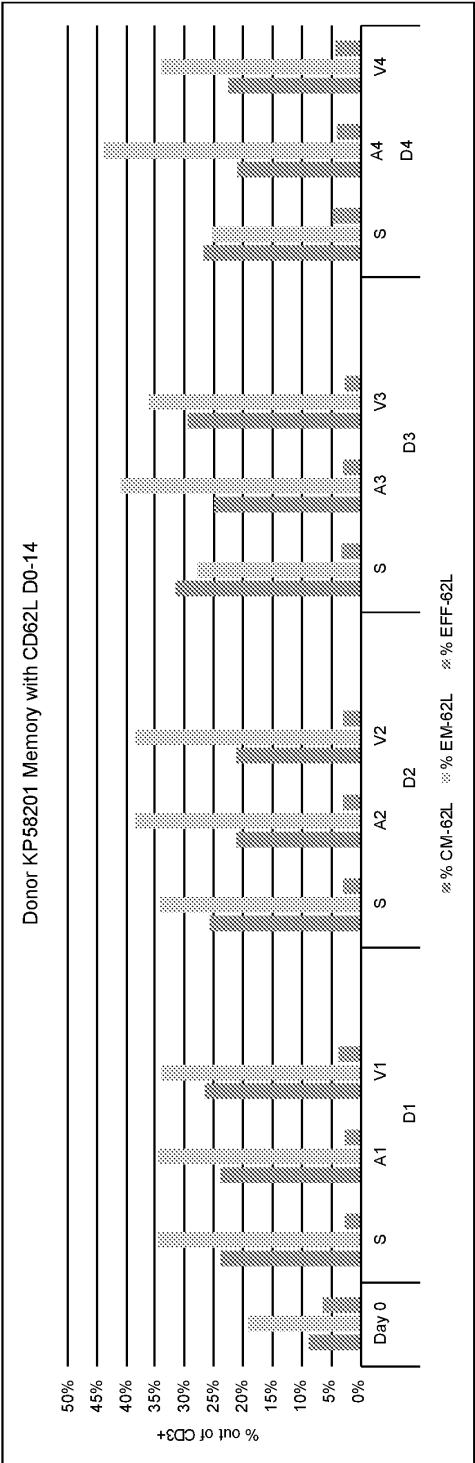


FIG. 40B

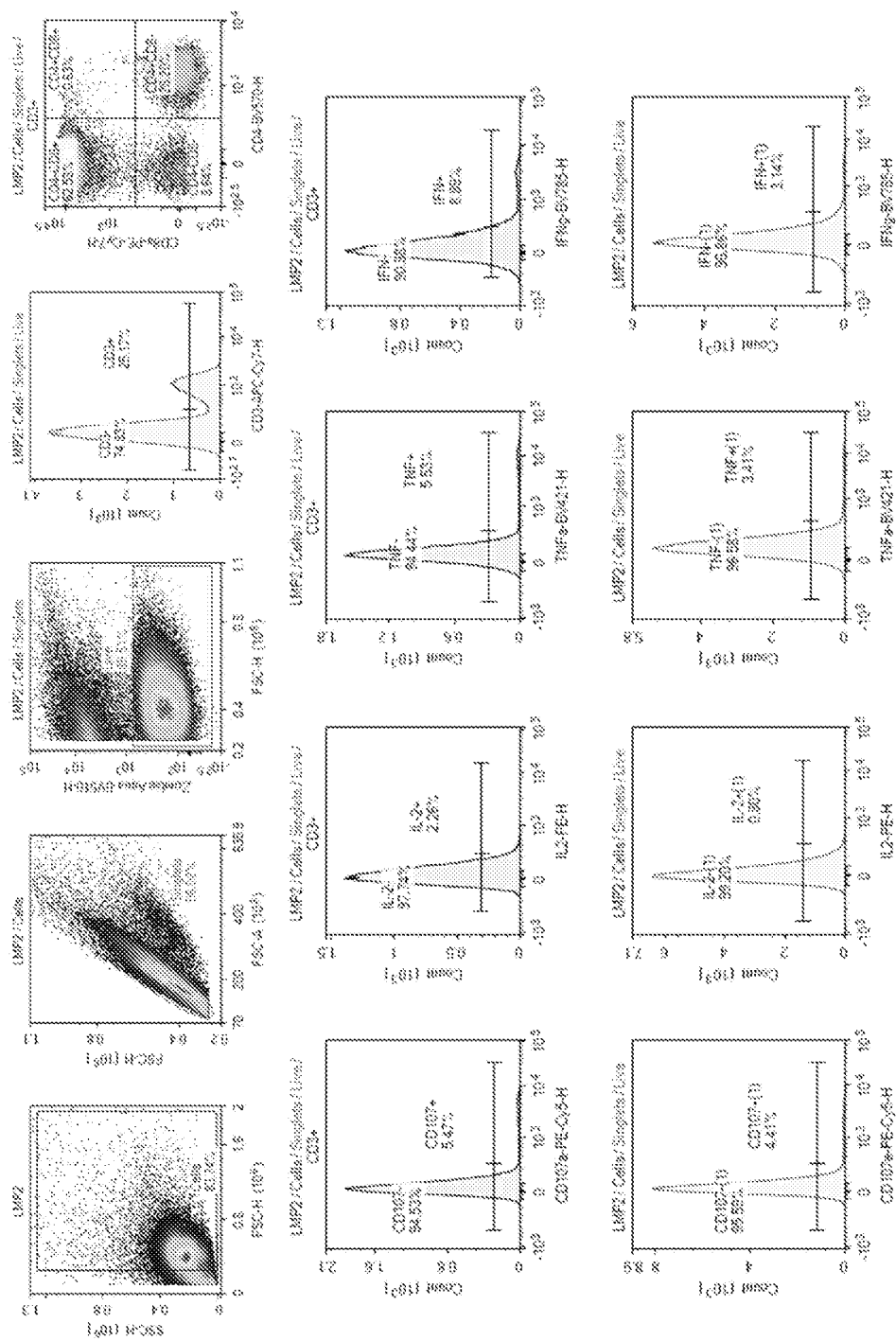


FIG. 41

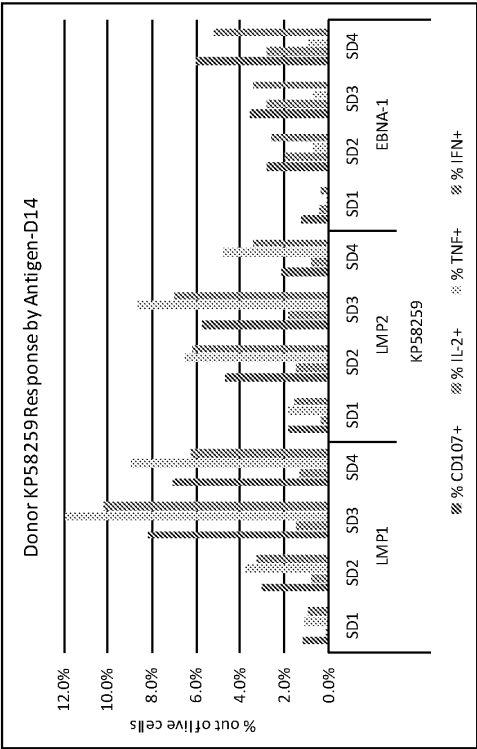


FIG. 42A

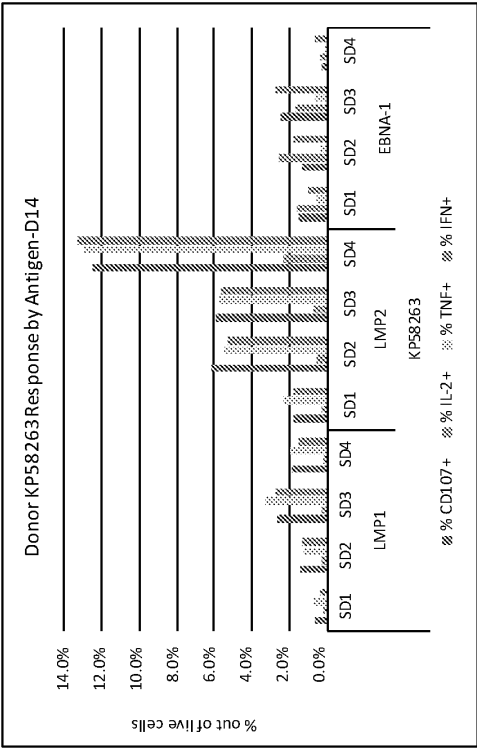


FIG. 42B

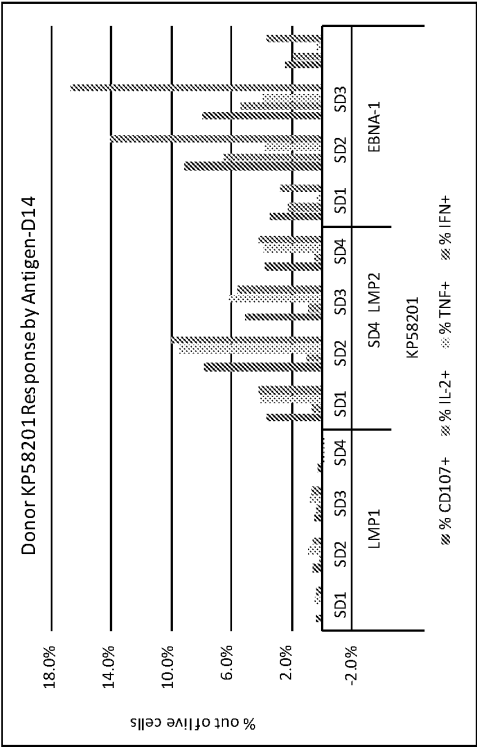


FIG. 42C

FIG. 43A

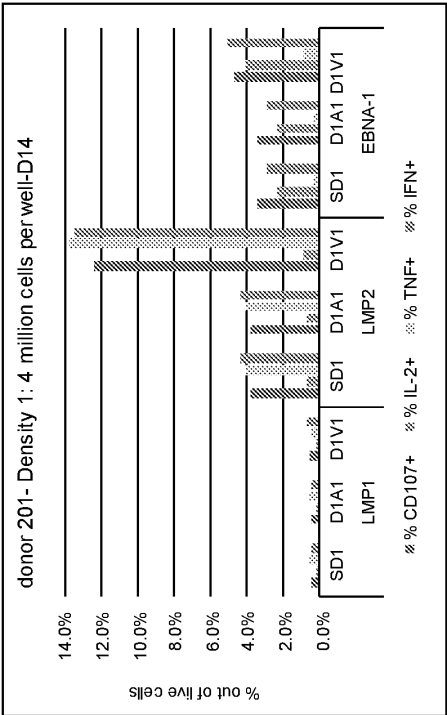
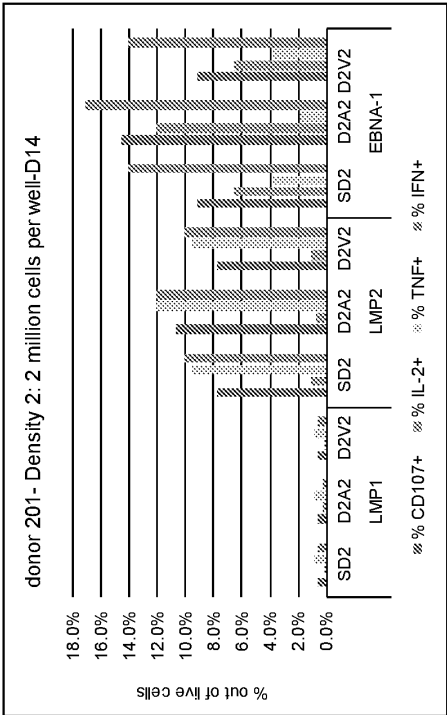


FIG. 43B



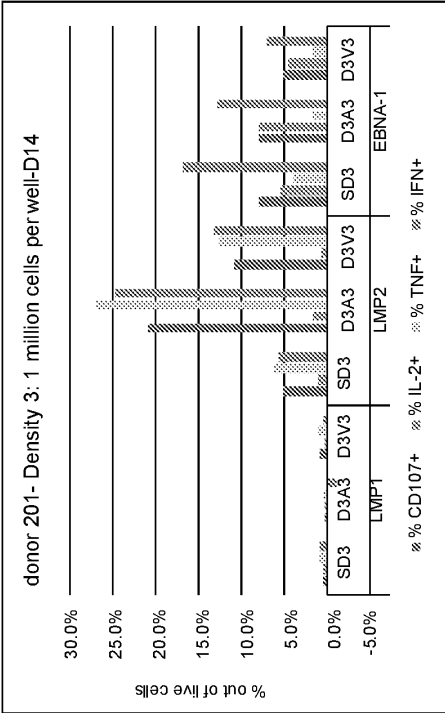


FIG. 43C

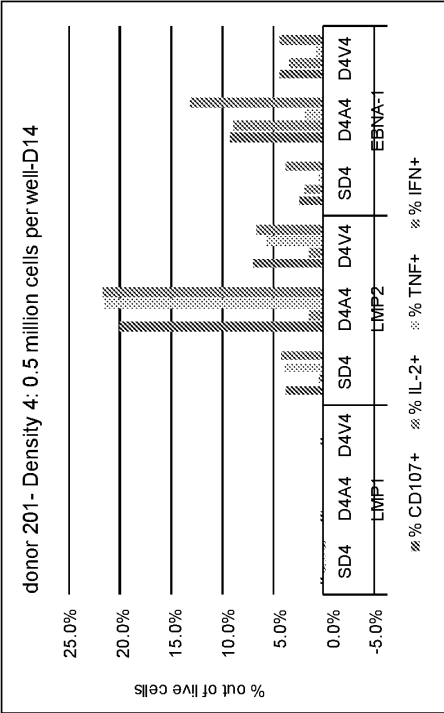


FIG. 43D

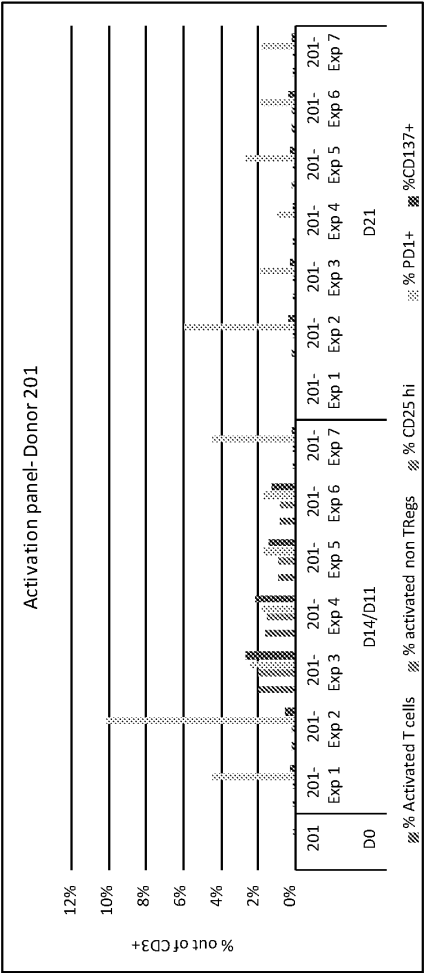


FIG. 44A

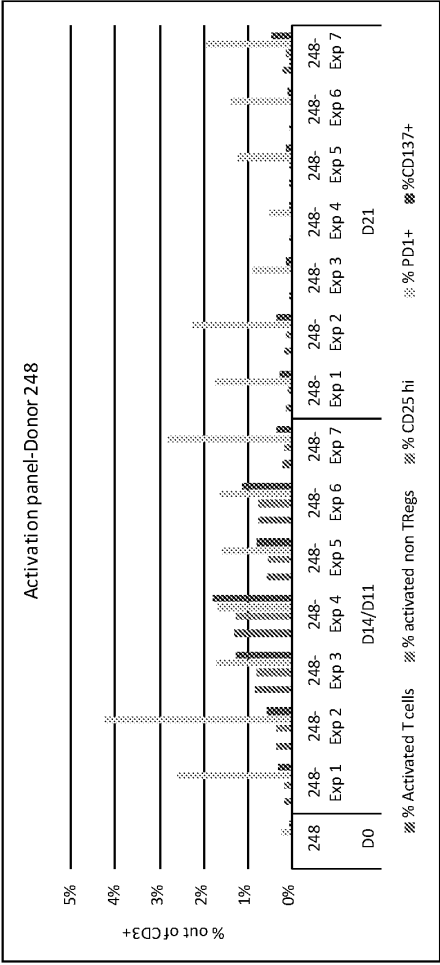


FIG. 44B

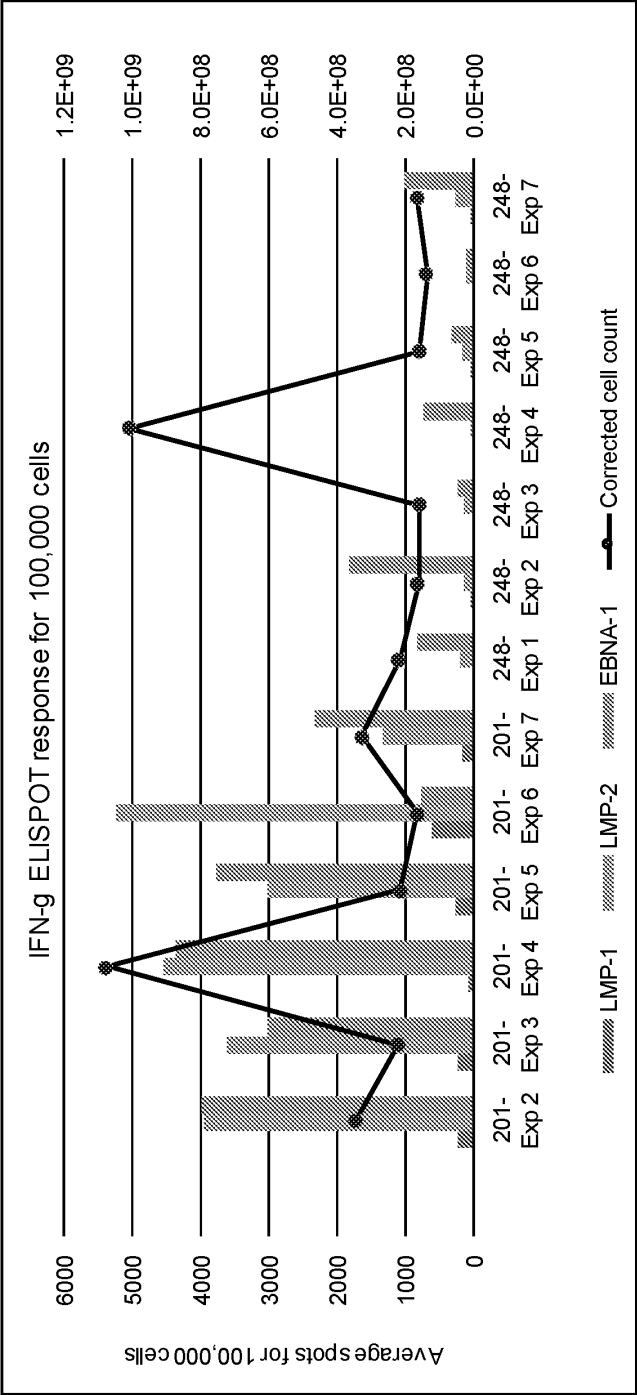


FIG. 45

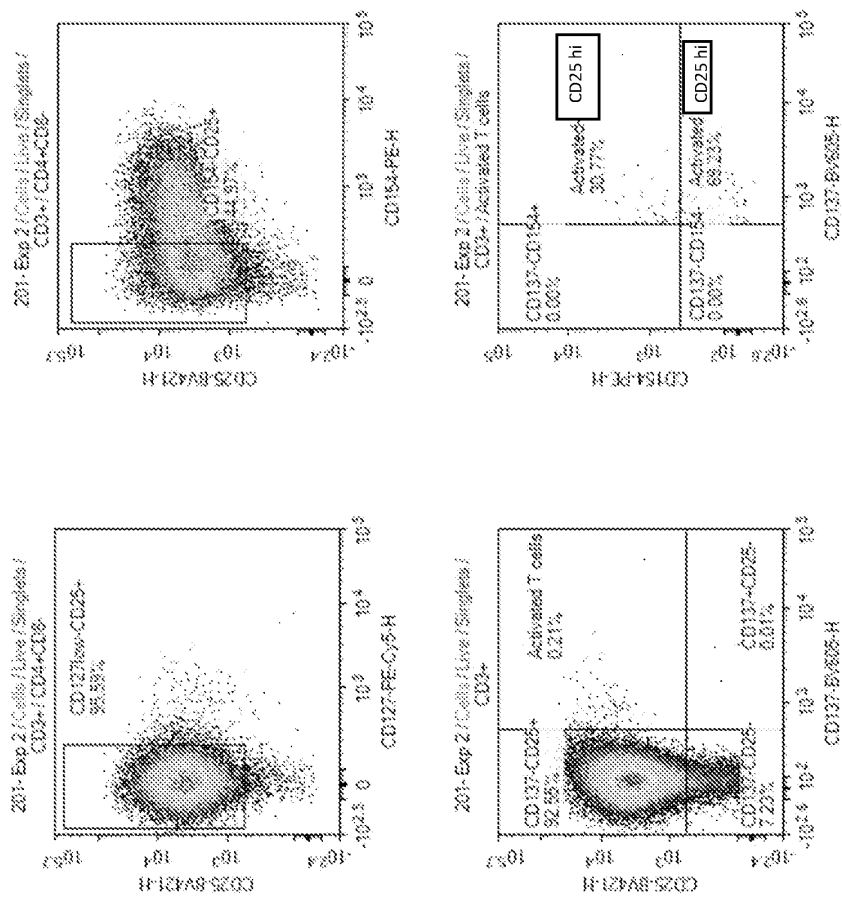


FIG. 46

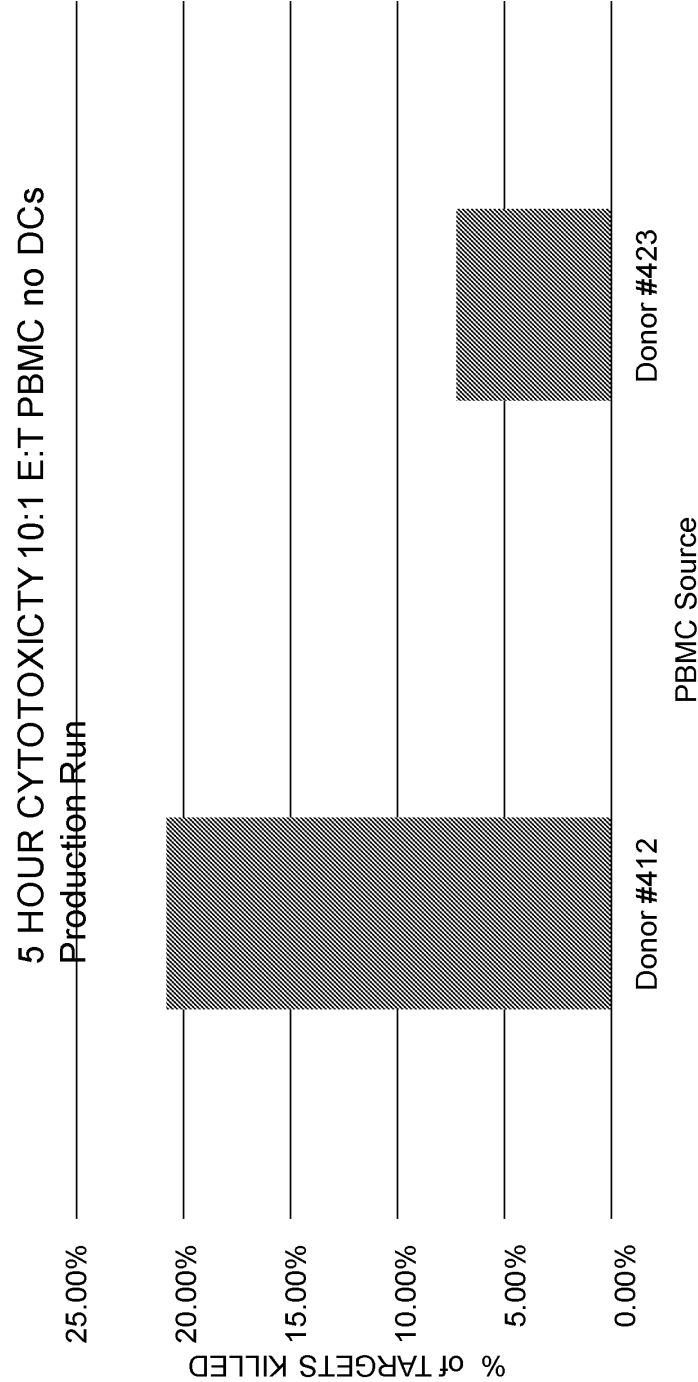
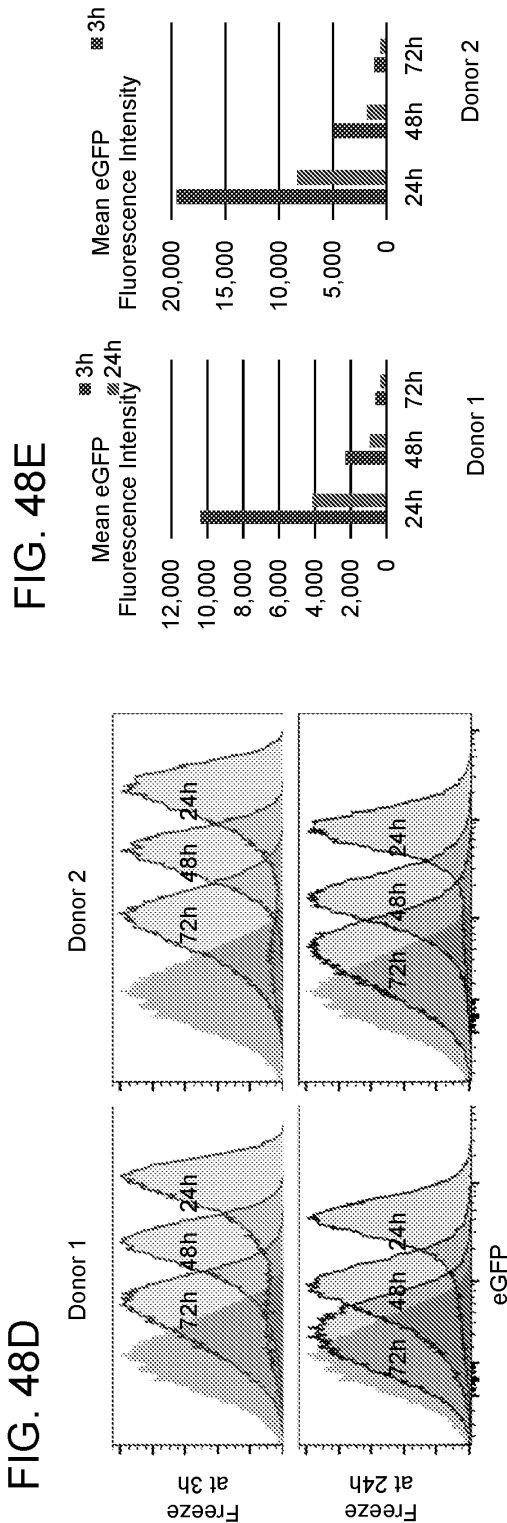
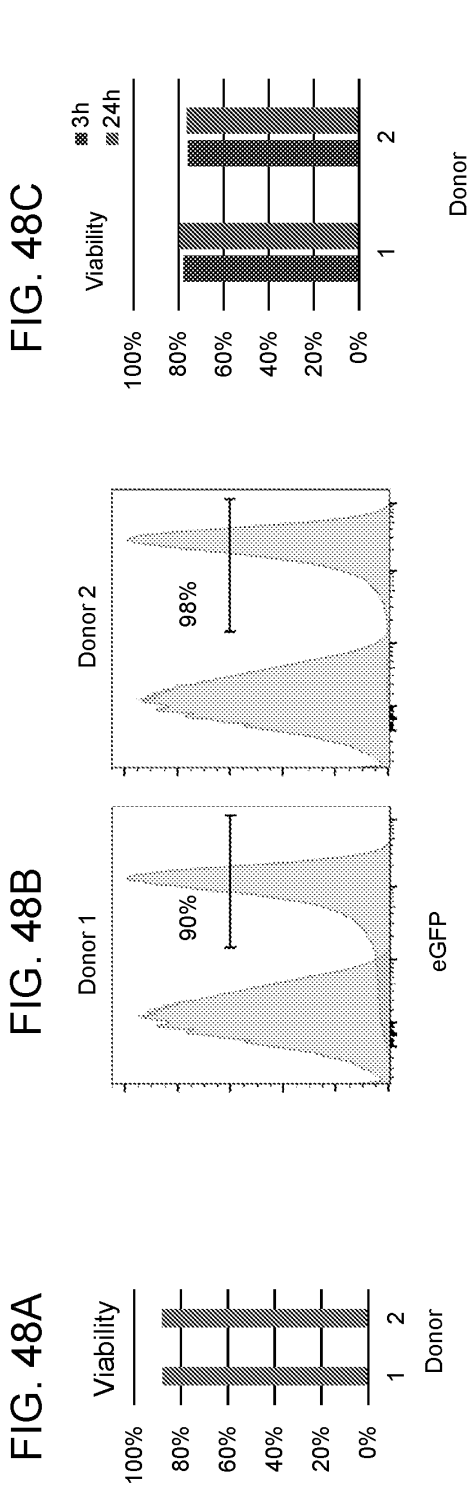


FIG. 47



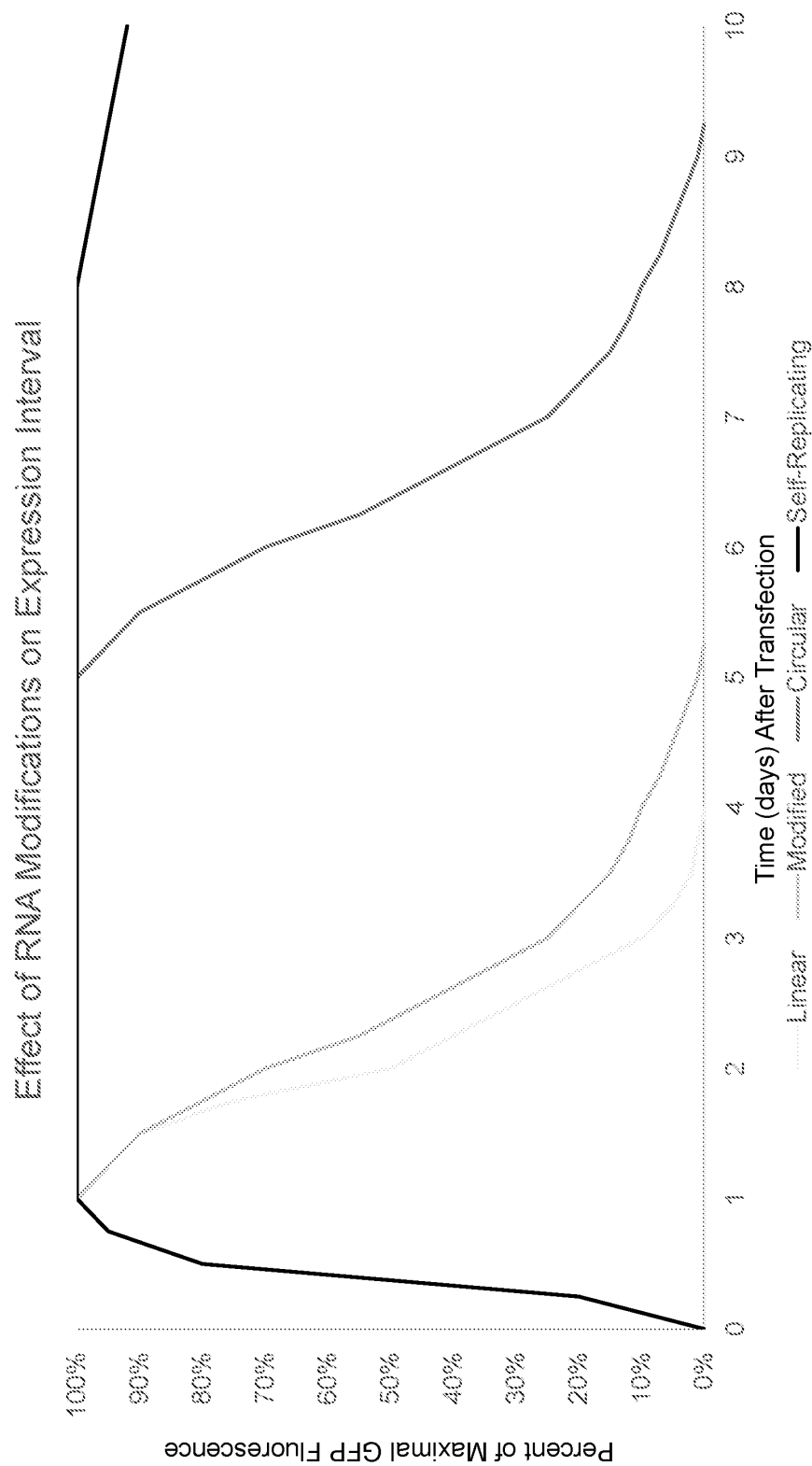


FIG. 48 F

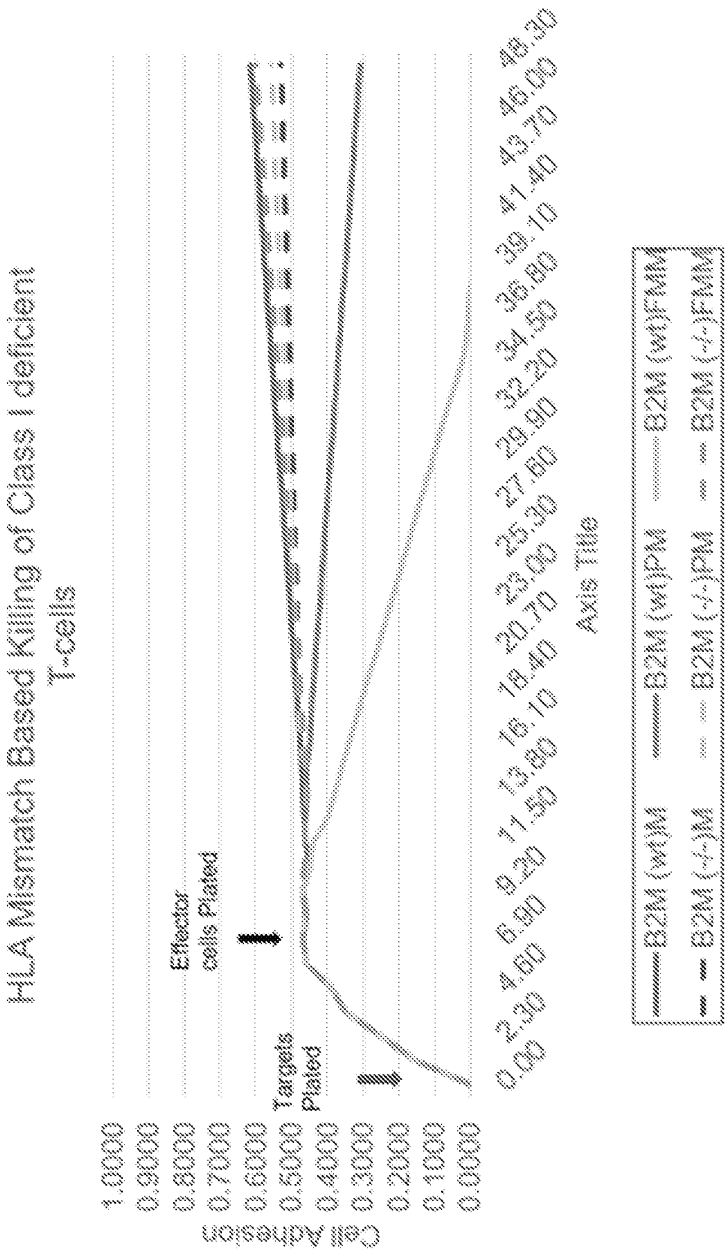


FIG. 49 A

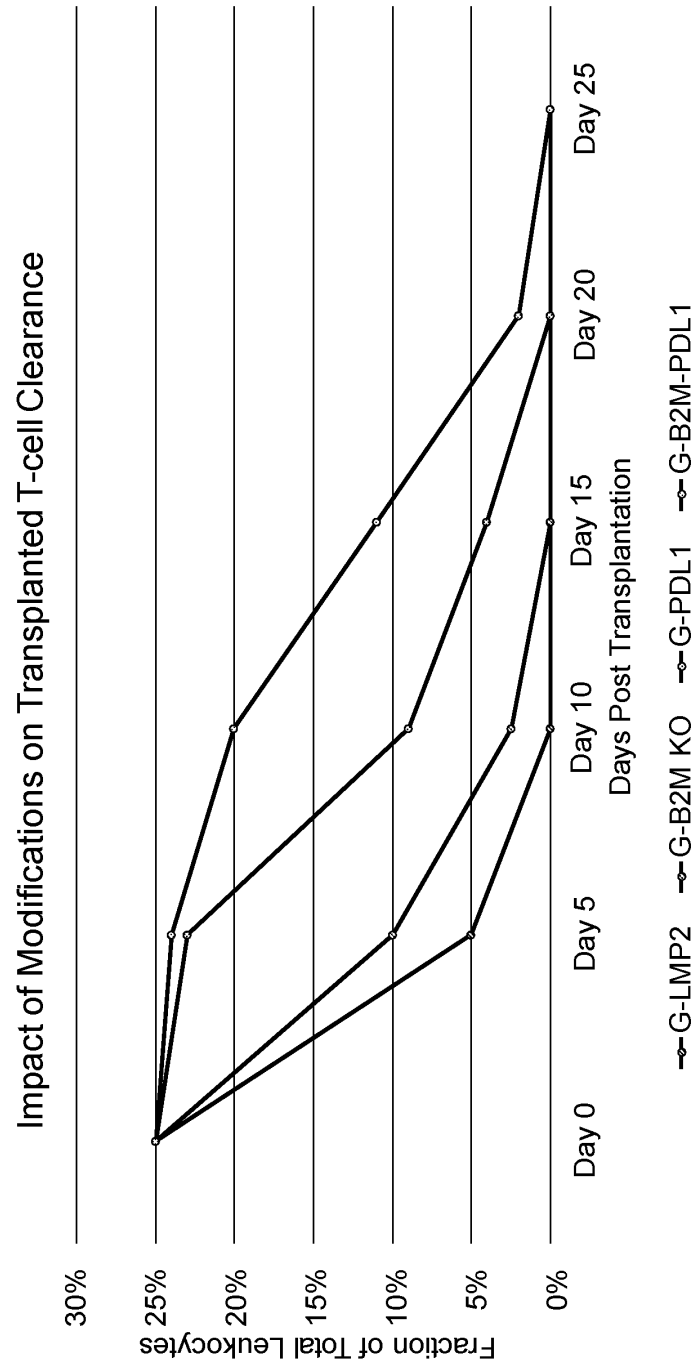


FIG. 49 B

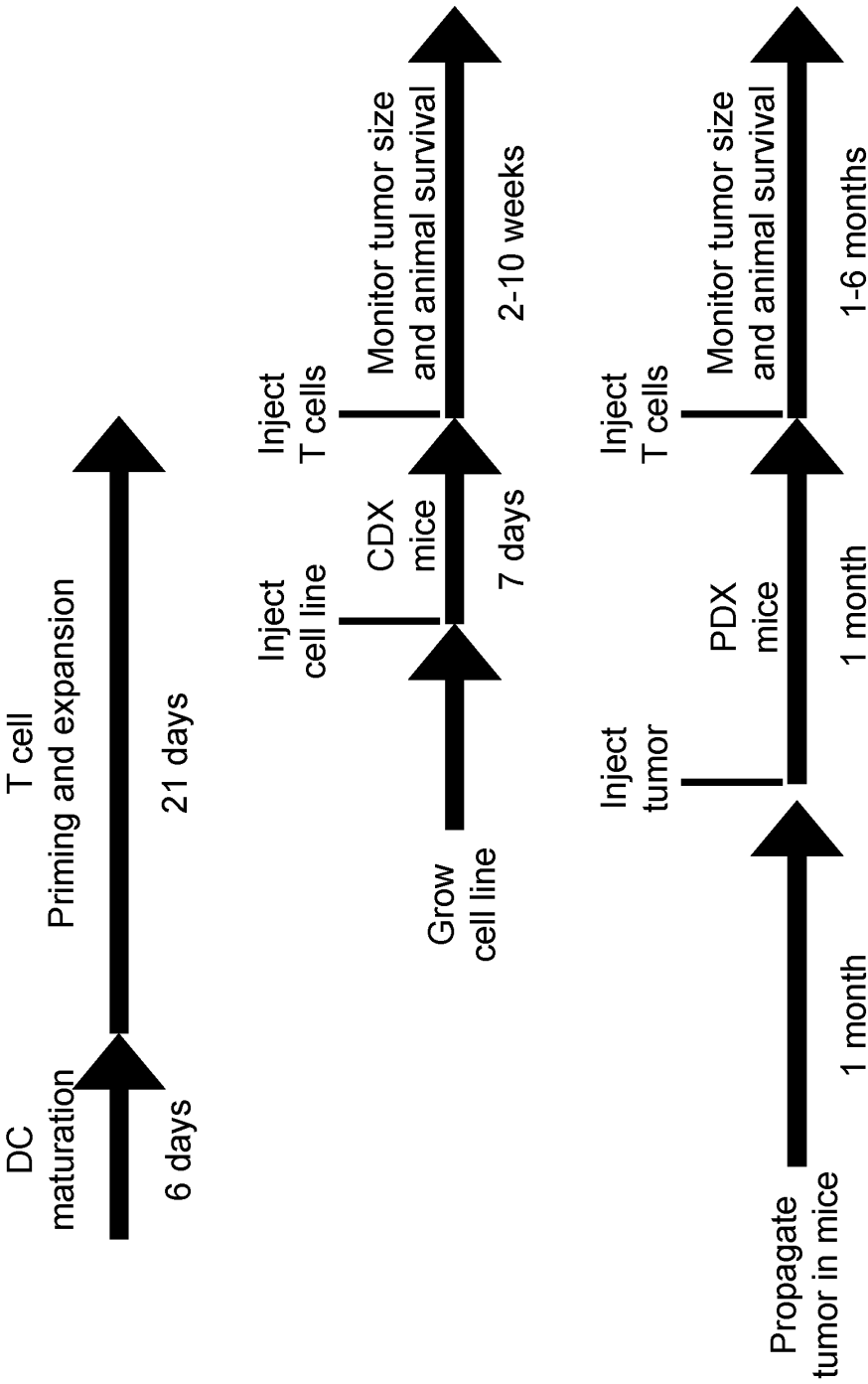


FIG. 50A

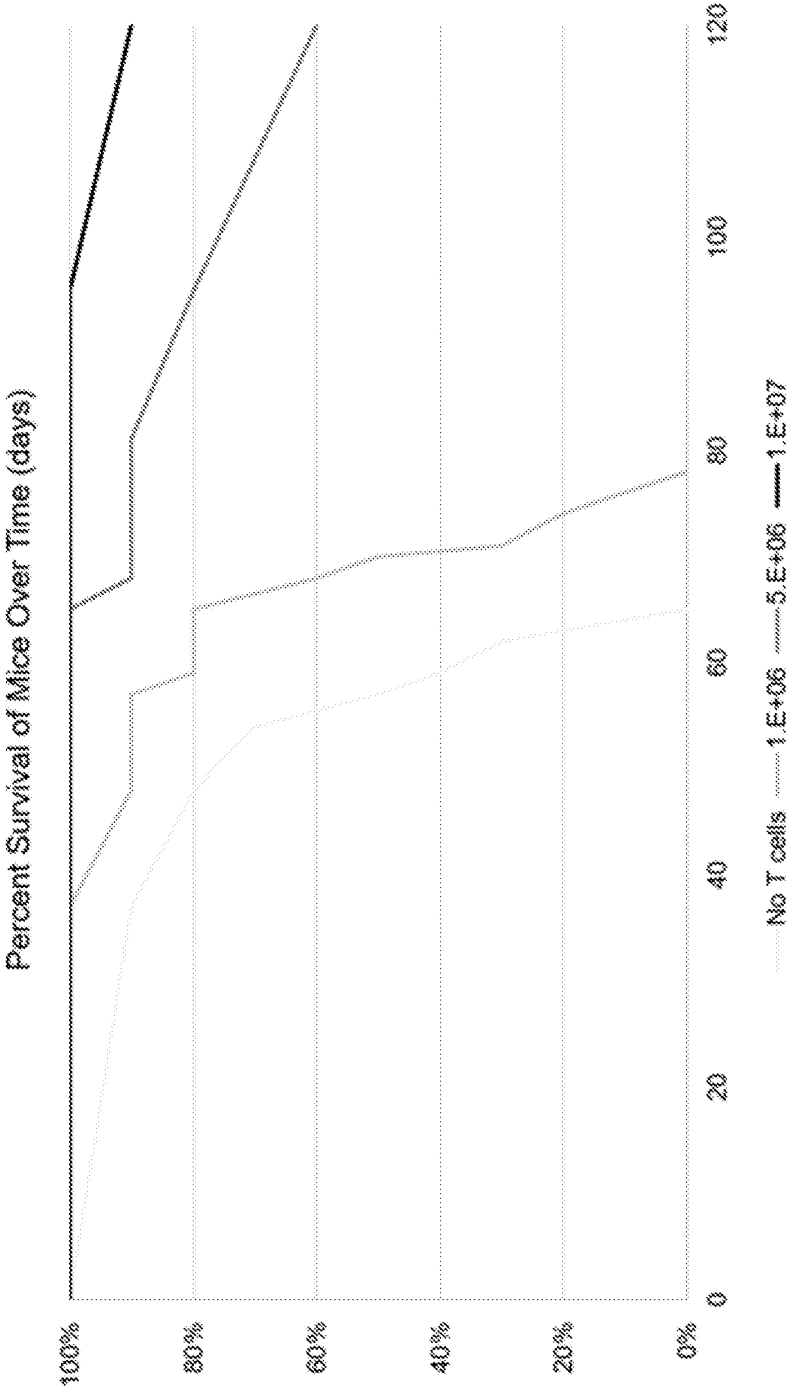


FIG. 50B

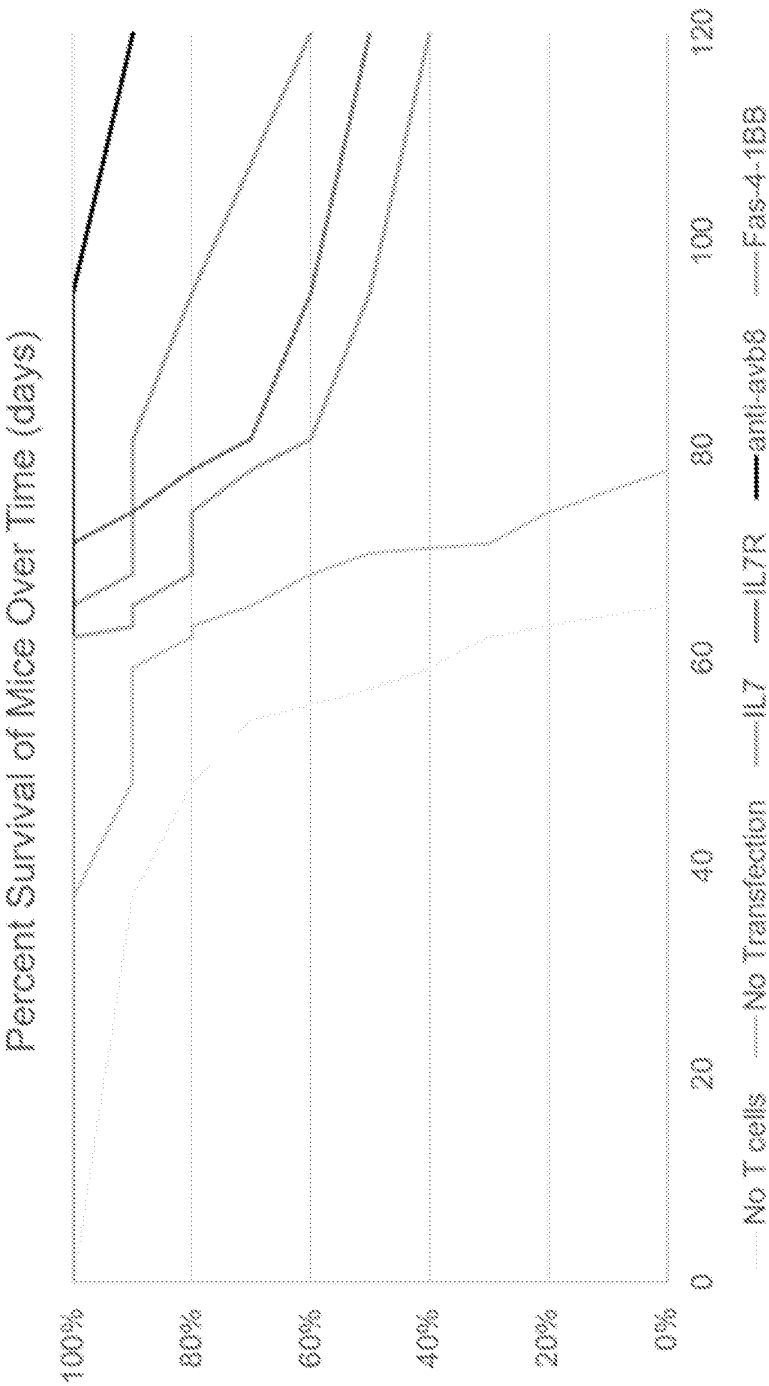


FIG. 50C

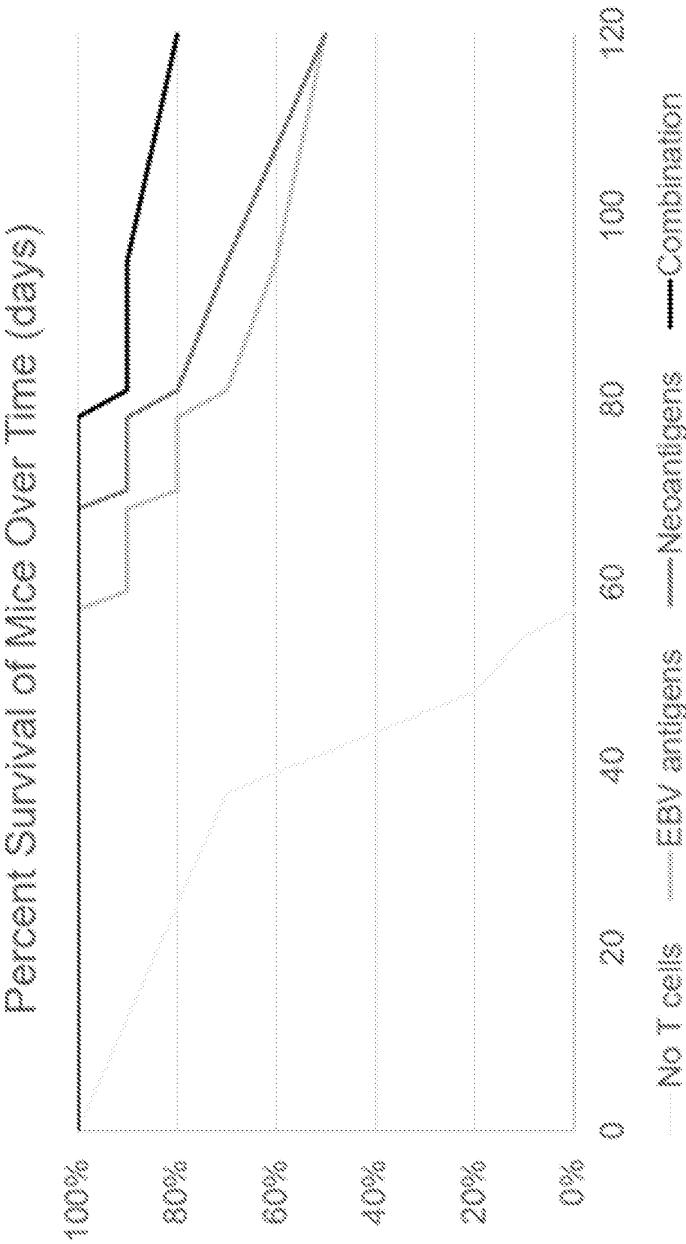


FIG. 50D

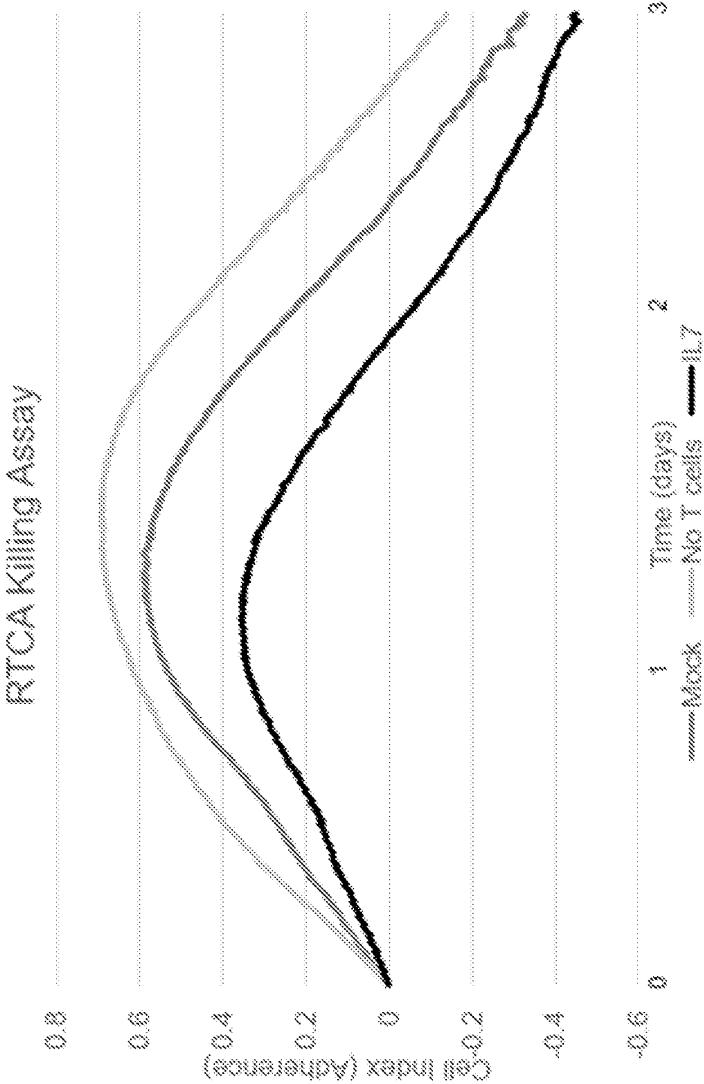


FIG. 50E

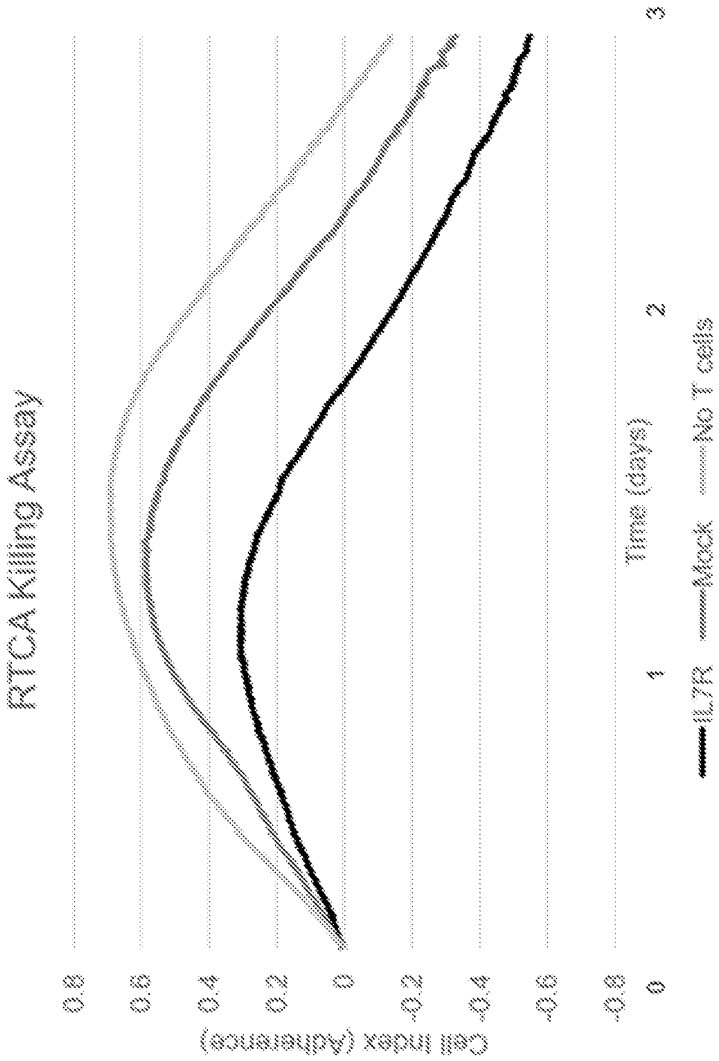


FIG. 50F

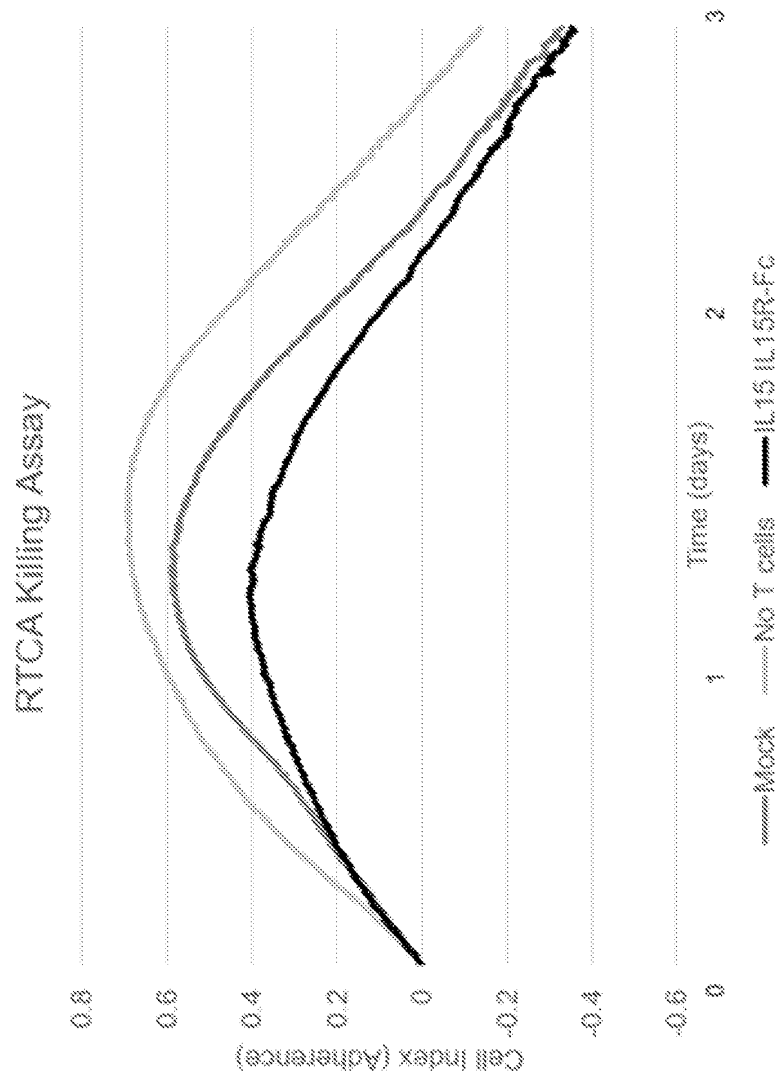


FIG. 50G

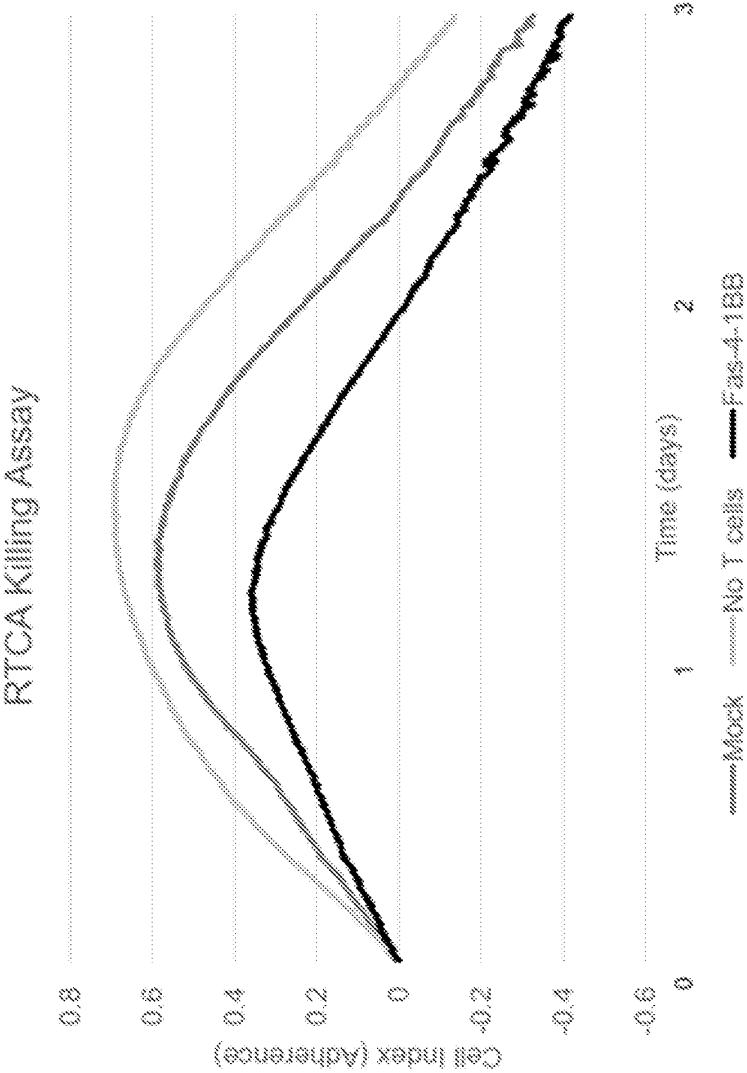


FIG. 50H

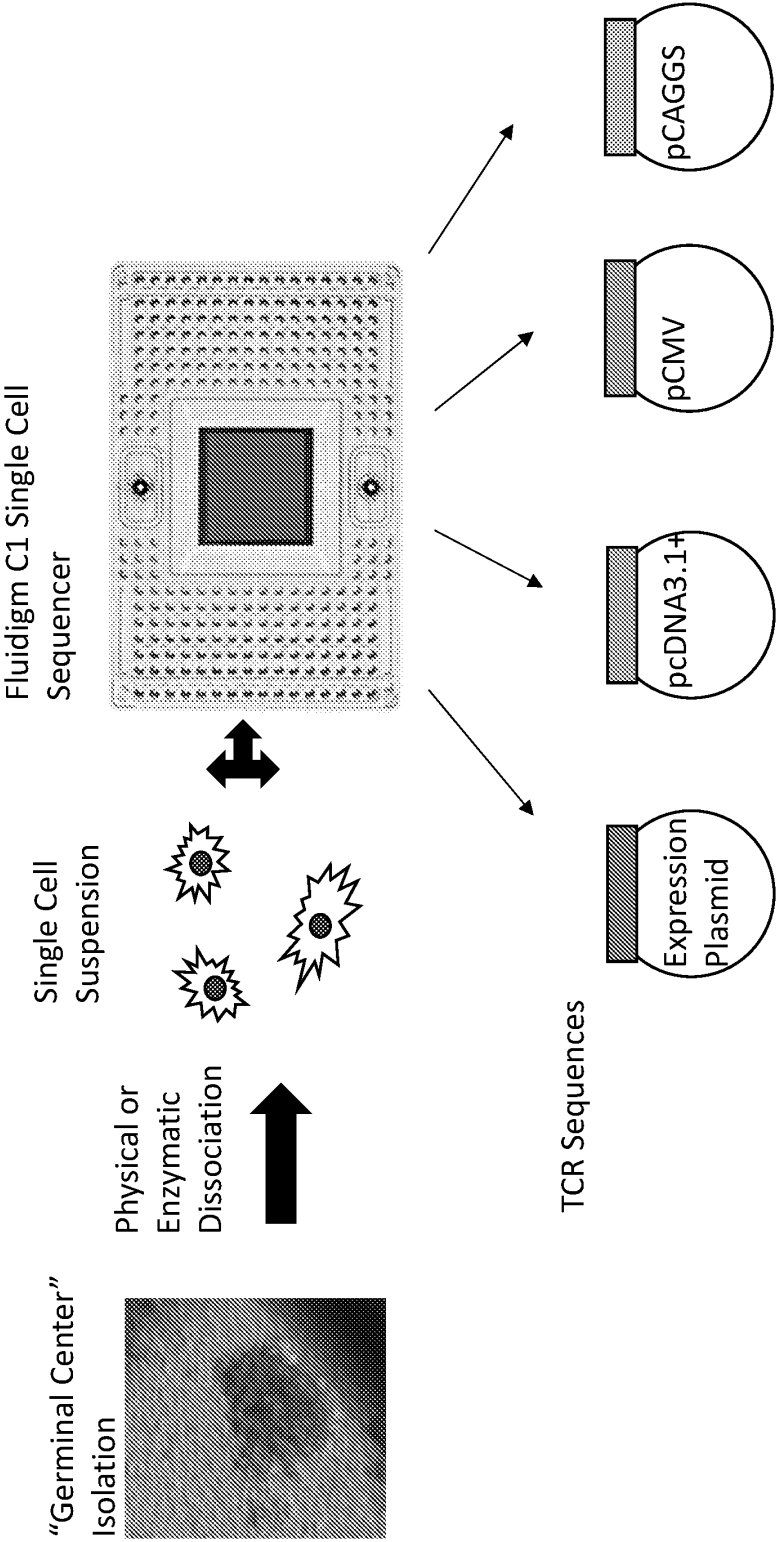


FIG. 51

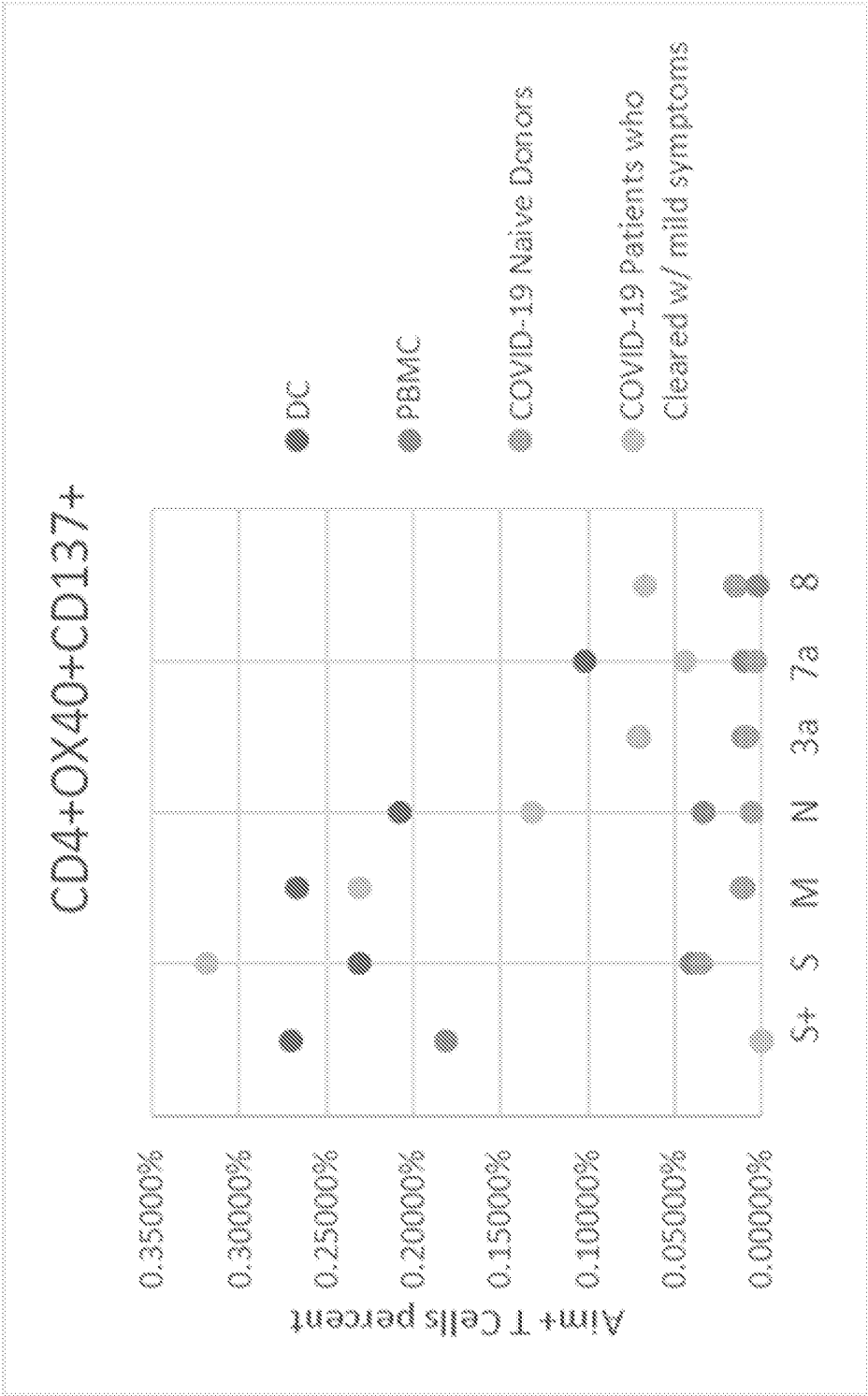


FIG. 52A

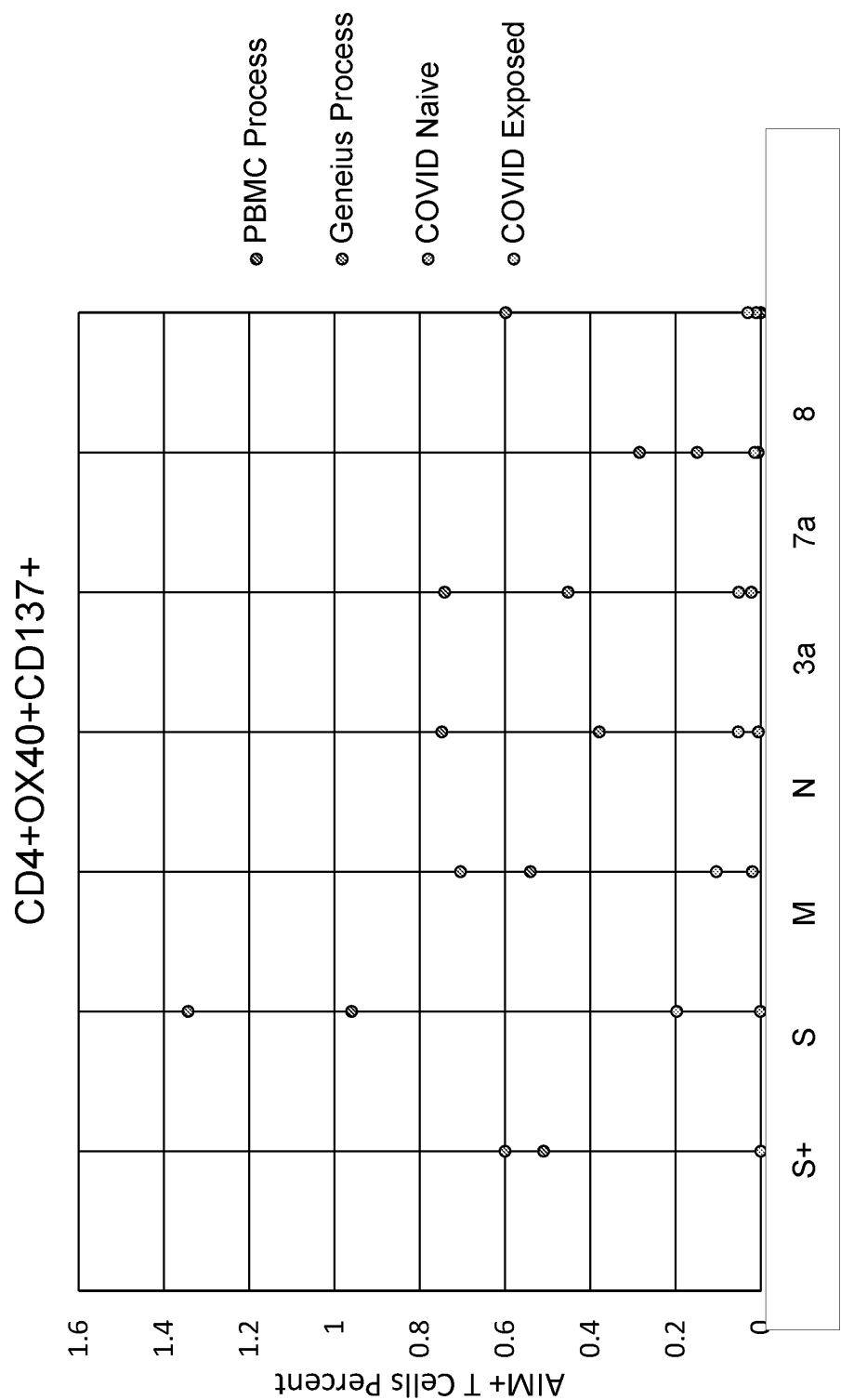


FIG. 52B

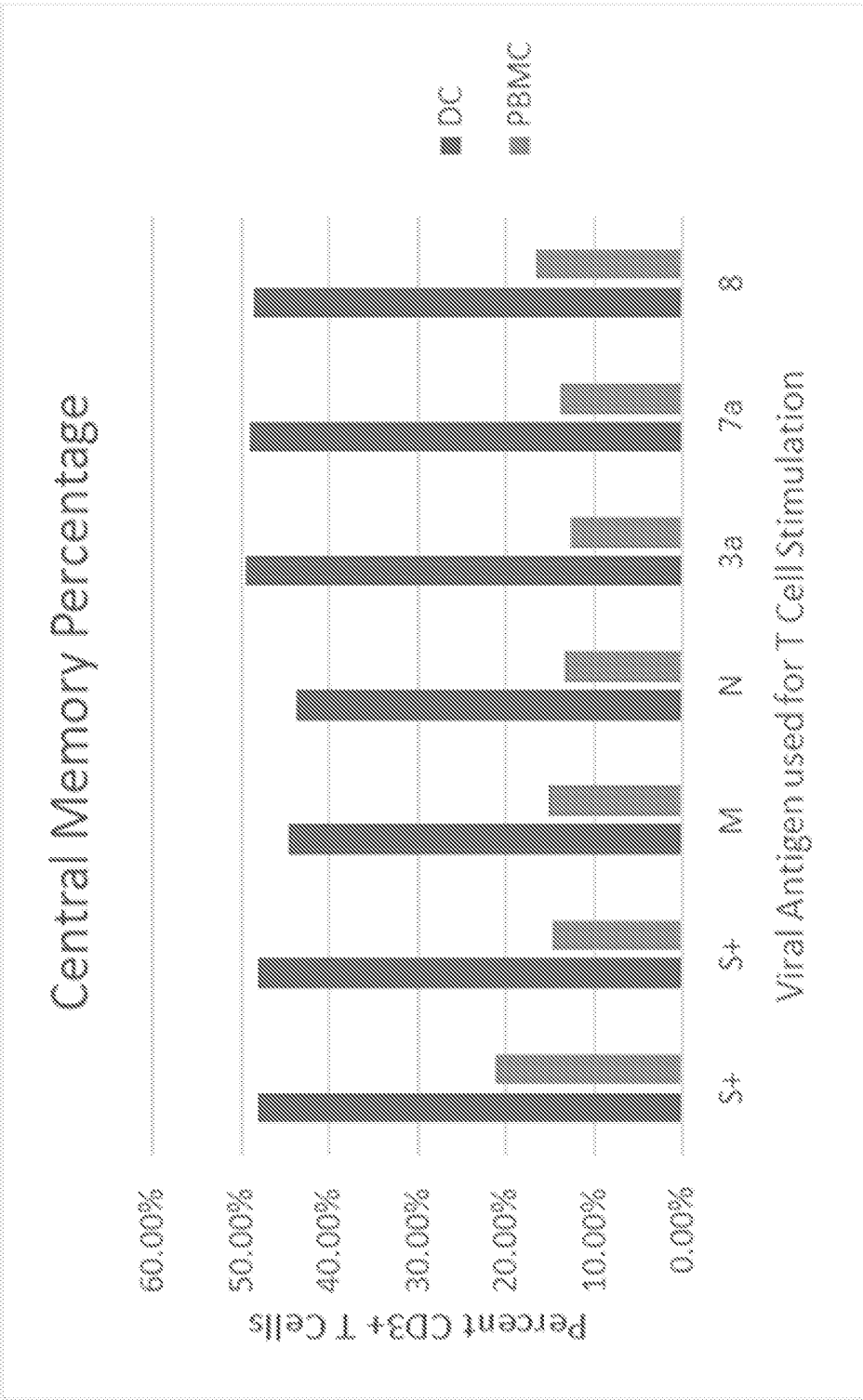


FIG. 52C

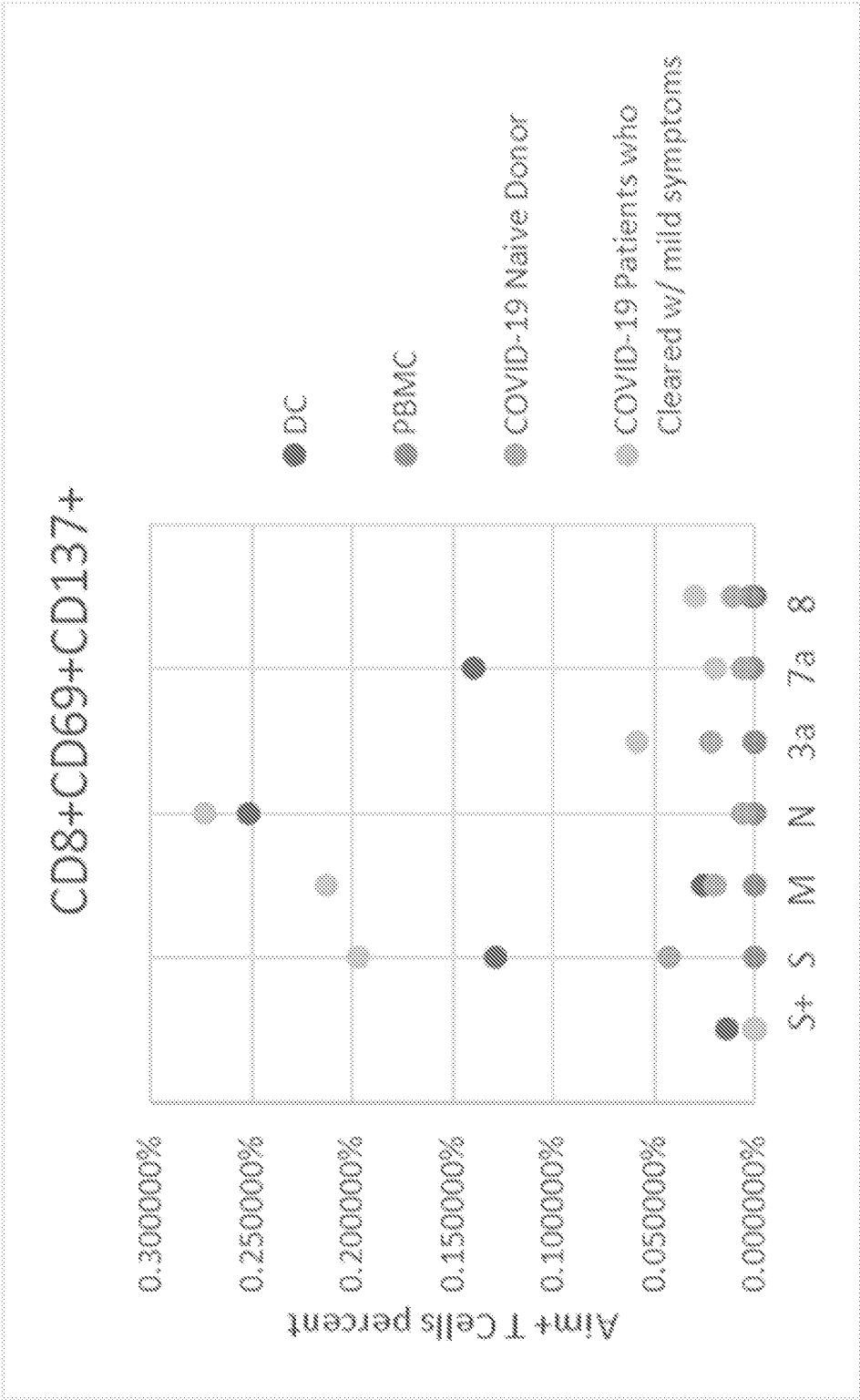


FIG. 53A

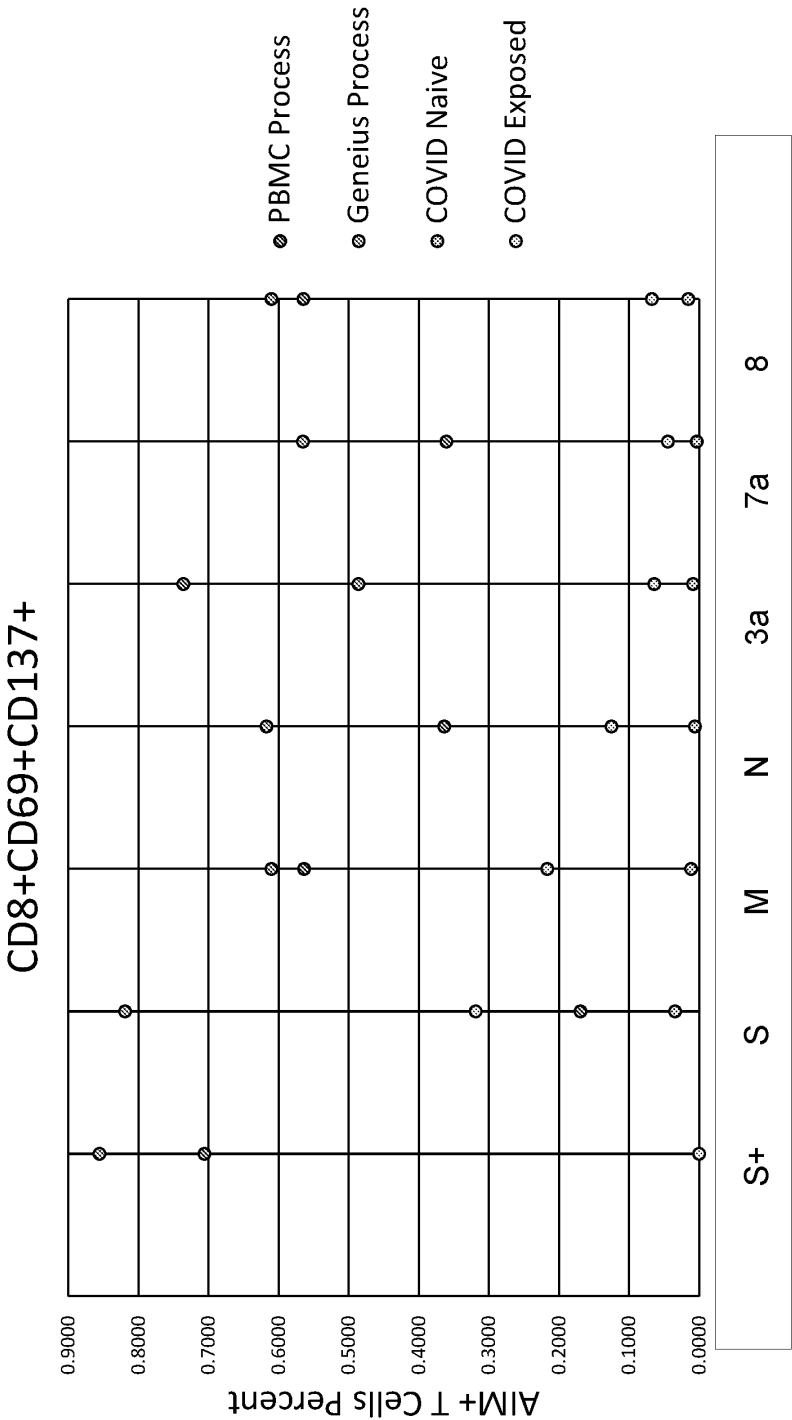


FIG. 53B

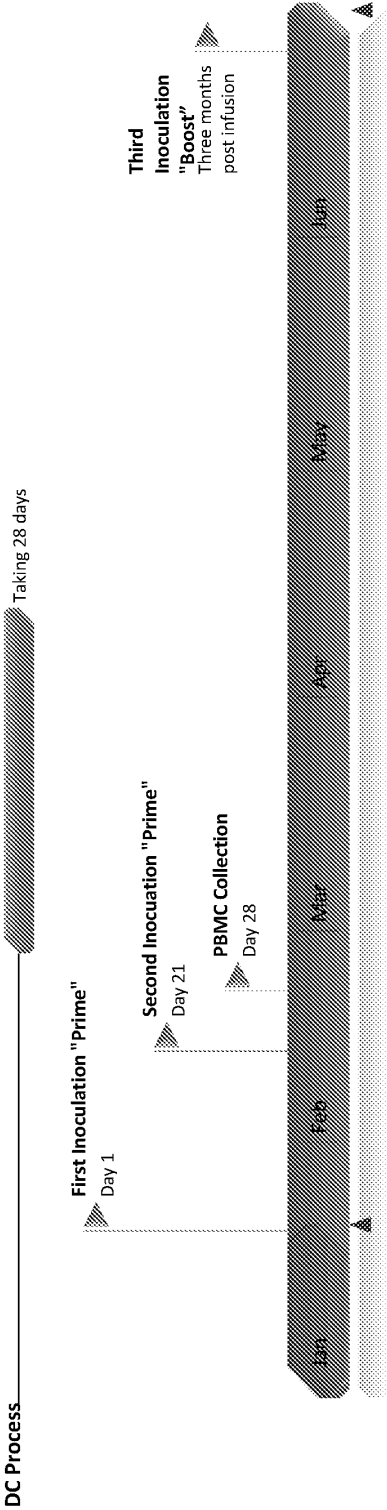
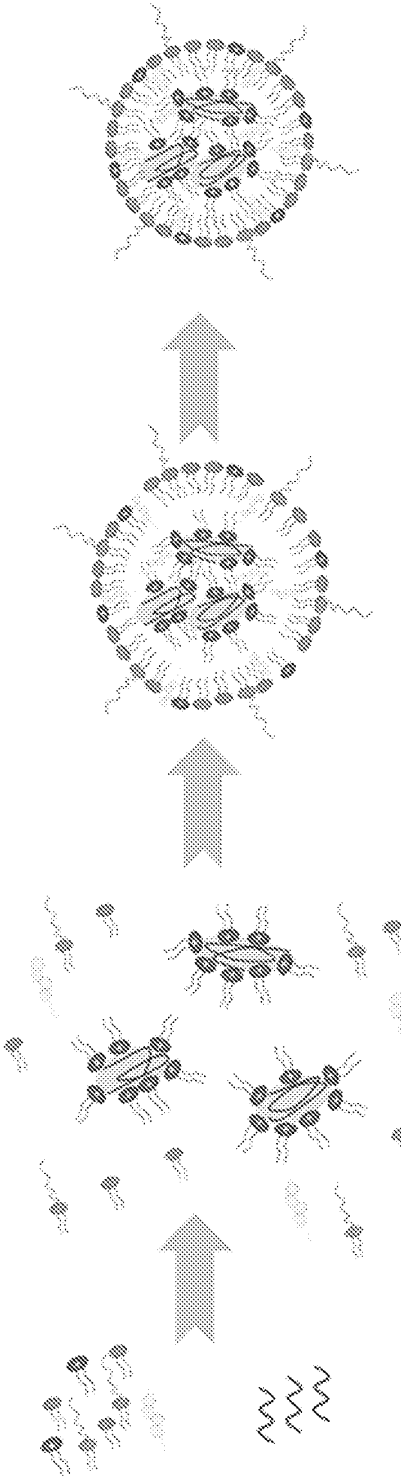


FIG. 54

MLVMA^{PR}TVLLLSAALAL^{TE}TWAI^RQGT^{DY}KHPQIAQFA^{GGSGGGGGH}LRIAGHHLGRCDI^{GGSG}
GGSGGMEVTPSGTWLTYTGAI^{KGGSGGGGGT}LACFVLA^{AVGGSGGGSGGA}FFGMSRIGMEVTPSGTW
GGSGGGGGGLMWLSYF^{IGSGGGSGGAQ}KFNGLT^{VLPLLTD}EMGGSGGGSGGMAYR^{FNGIGVTQ}NVL
YGGSGGGGGQALNTLVKQLSSNFGAI^{GGSGGGSGGGAALQ}IPFAMQ^{MAYRFGSGGGGGSGG}

Signal Sequence

Linker



mRNA encapsulation

FIG. 55