

FIG. 1A

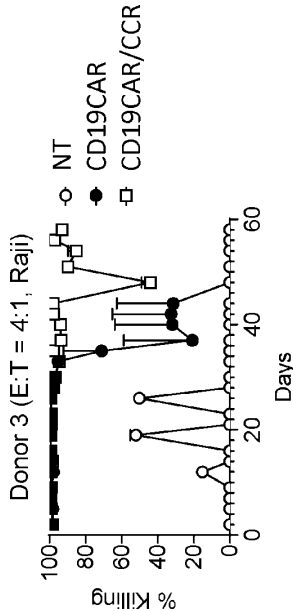
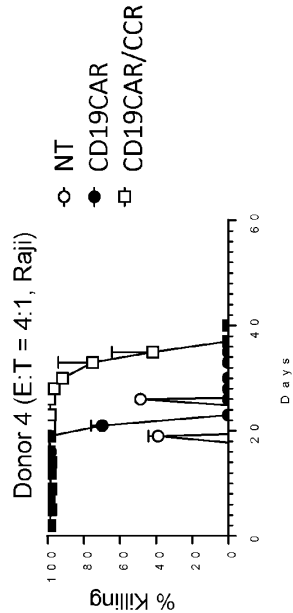
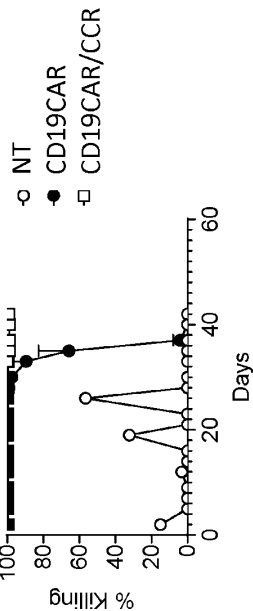


FIG. 1B



Donor 3 (E:T = 2:1, Daudi)



Donor 4 (E:T = 2:1, Daudi)

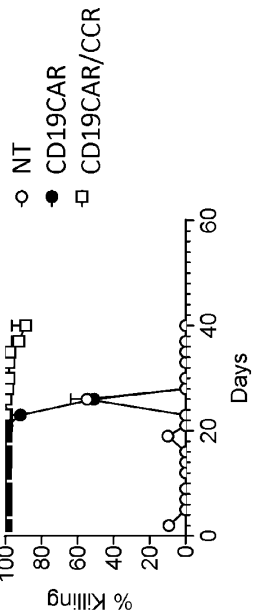
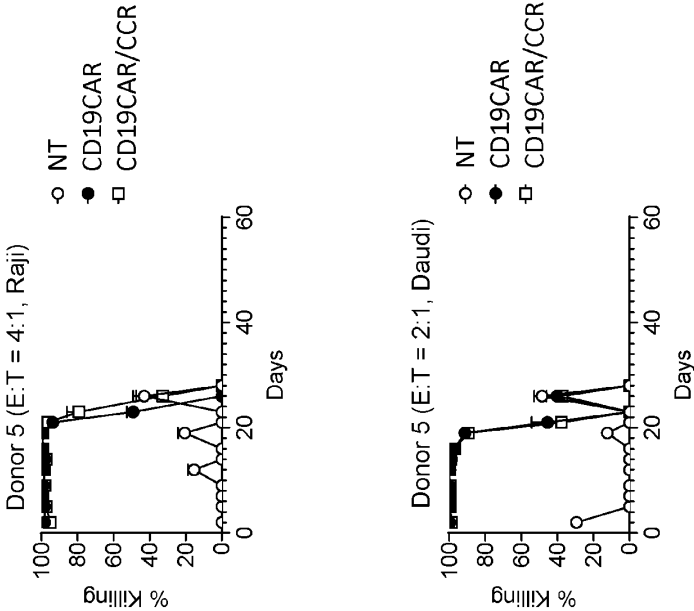


FIG. 1C



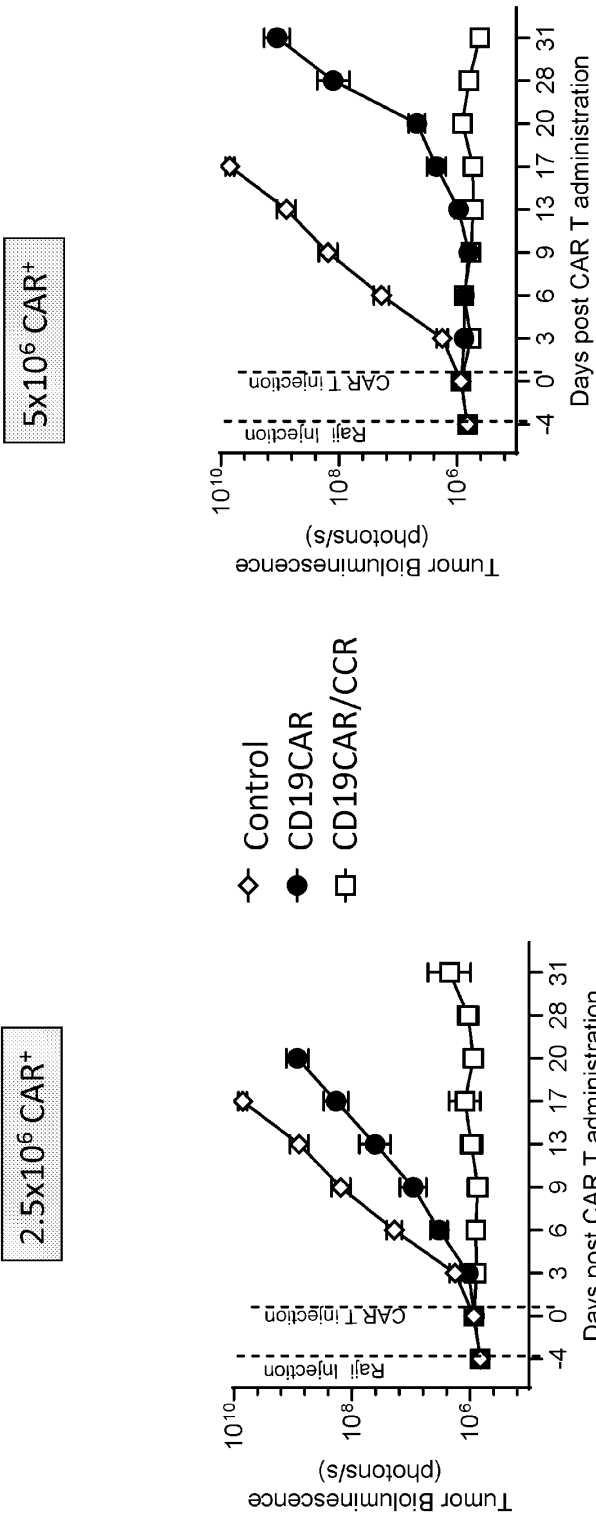


FIG. 2B

FIG. 2A

FIG. 3B

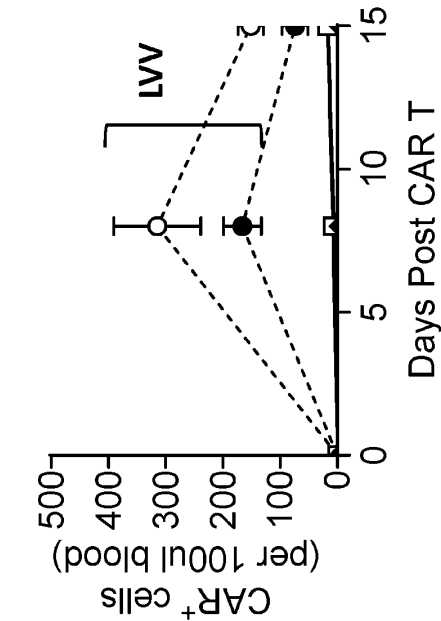


FIG. 3A

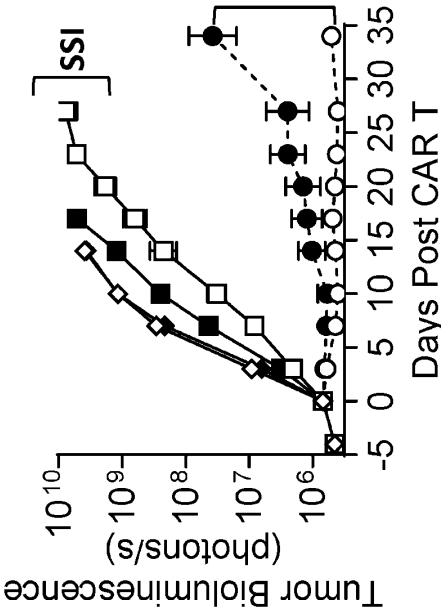
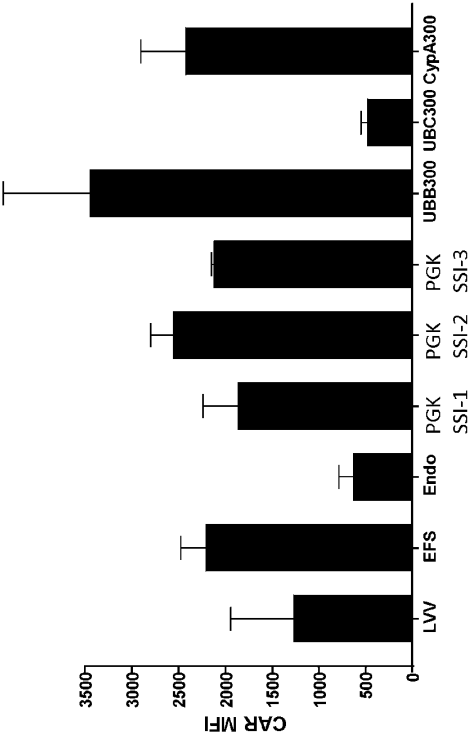


FIG. 4A



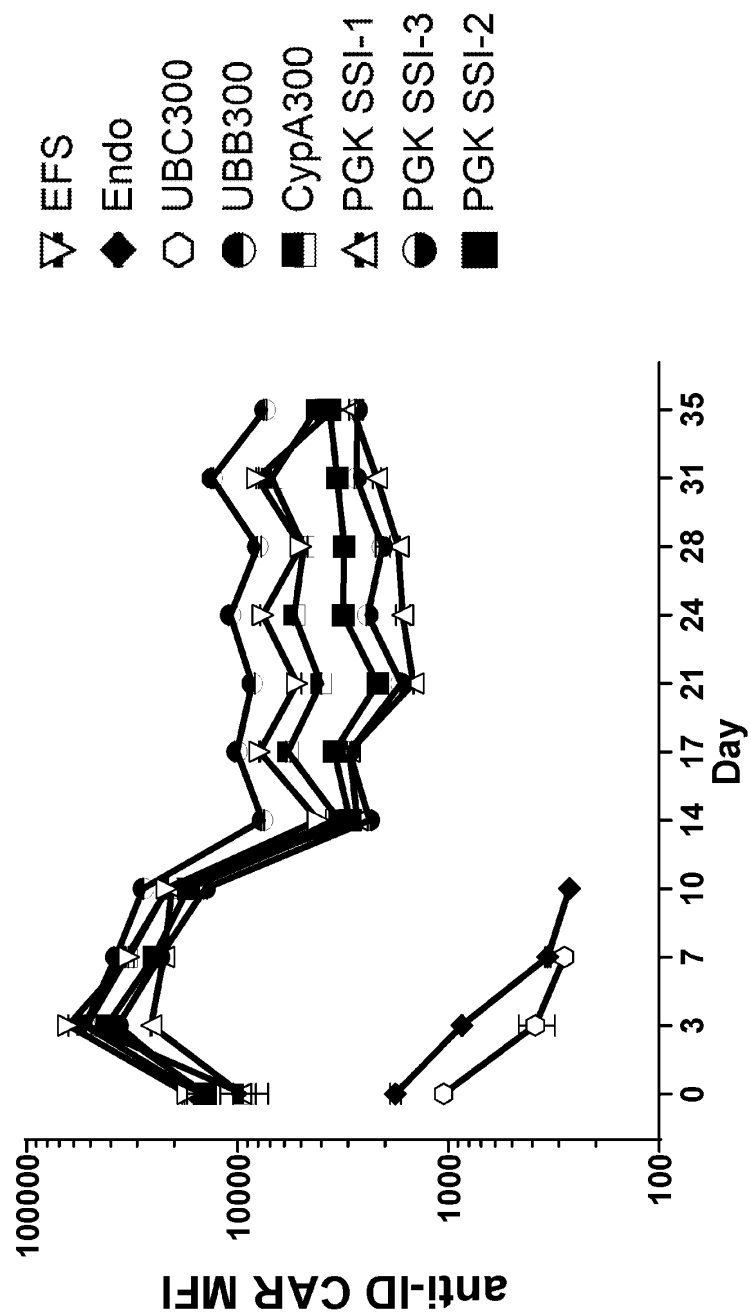
[illegible]

anti-ID CAR MFI

Day

Legend:

- EFS
- Endo
- UBC300
- UBB300
- CypA300
- PGK SSI-1
- PGK SSI-3
- PGK SSI-2



 EFS
 Endo
 UBC300
 UBB300
 CypA300
 PGK SSI-1
 PGK SSI-3
 PGK SSI-2
 NTD

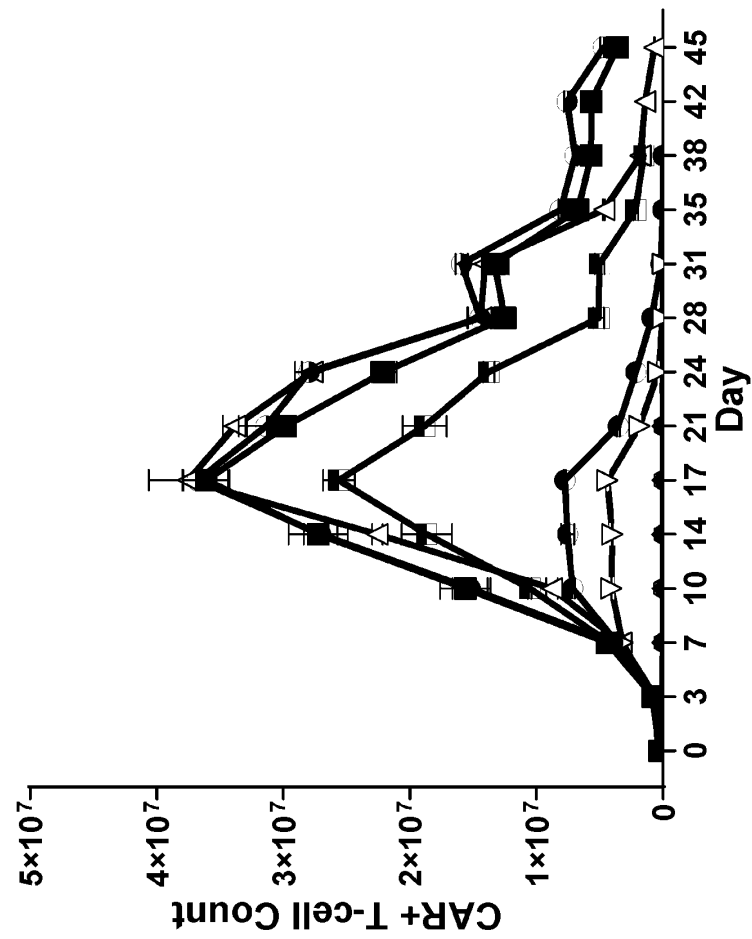


FIG. 5A

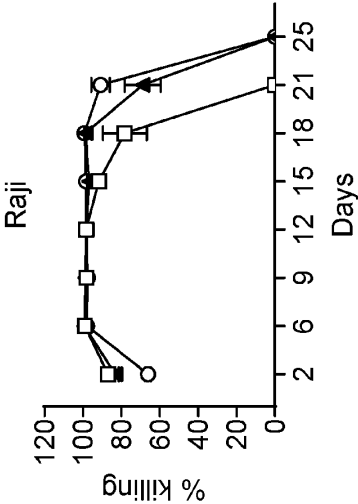


FIG. 5B

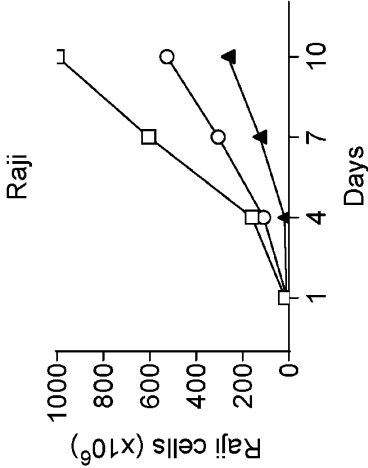


FIG. 5C

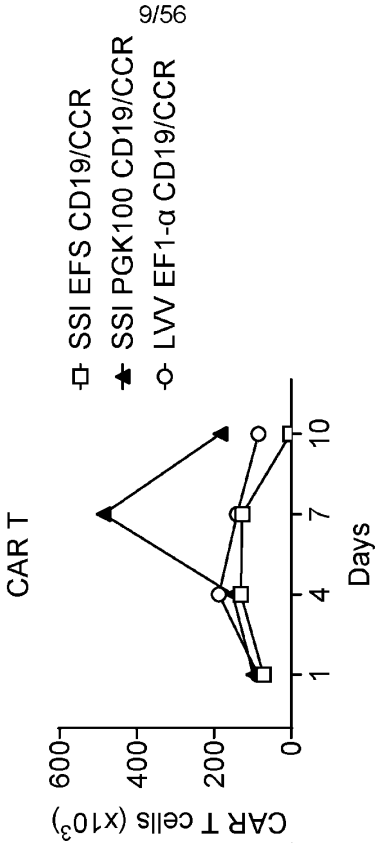


FIG. 6A

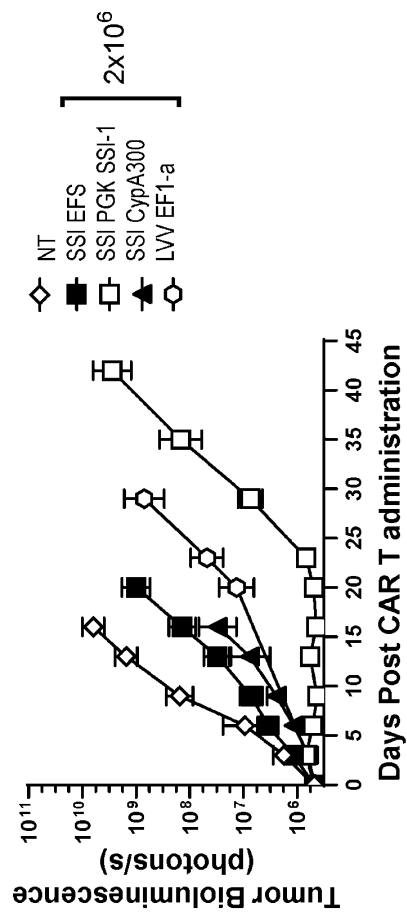


FIG. 6B

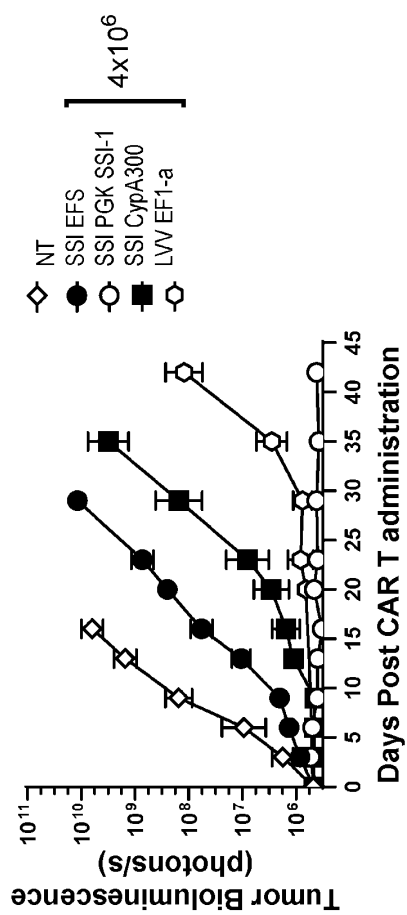


FIG. 7A

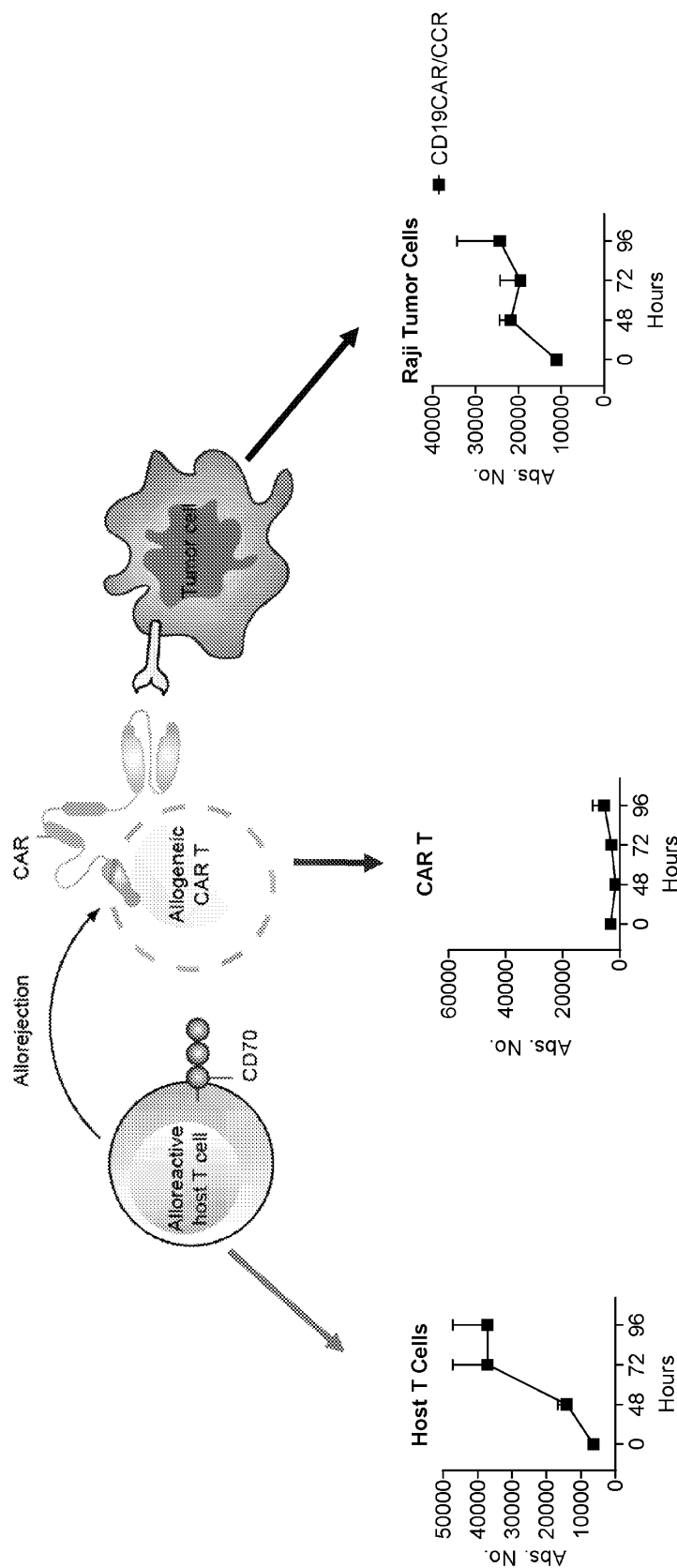


FIG. 7C

FIG. 7D

FIG. 7B

FIG. 7E

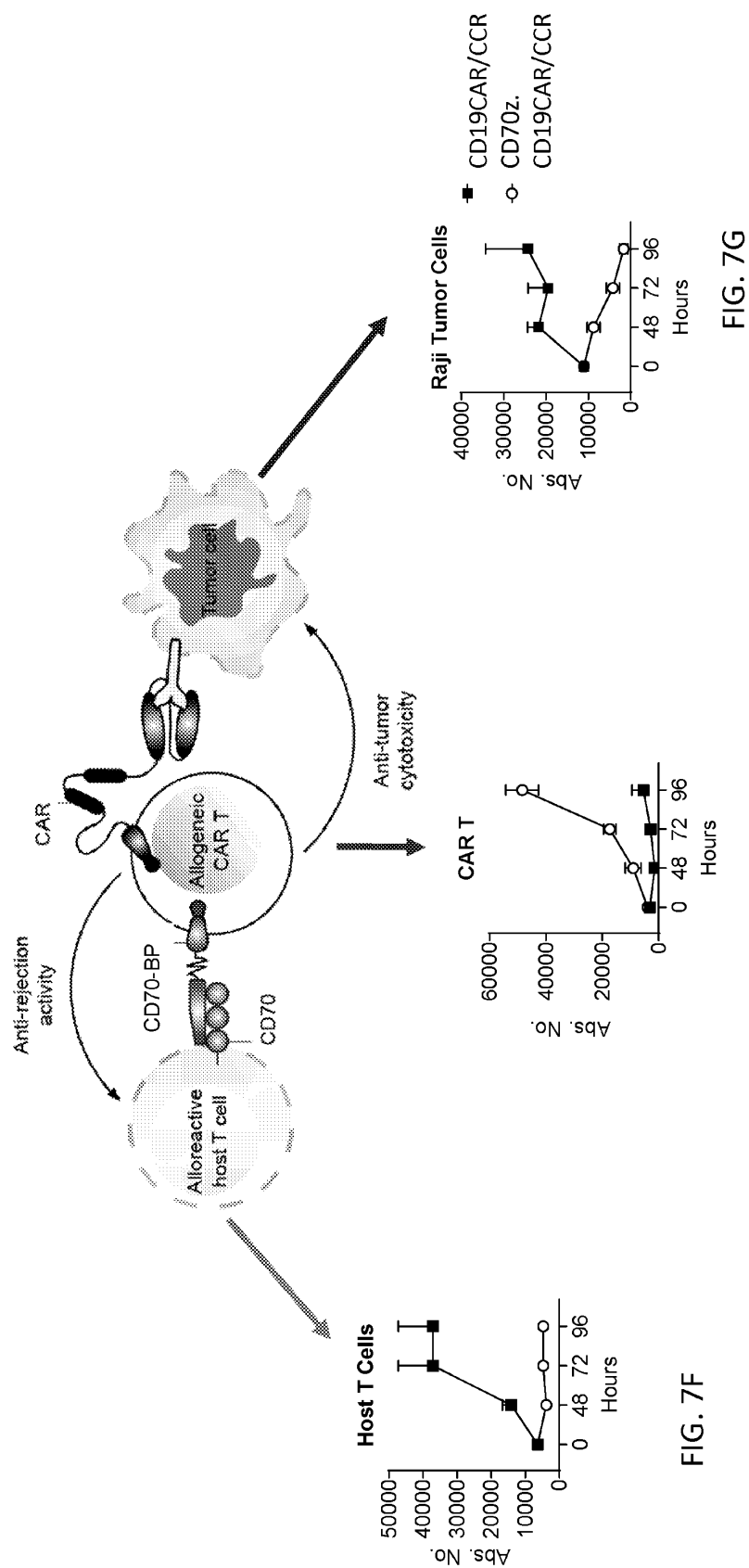


FIG. 7F

FIG. 7H

FIG. 7G

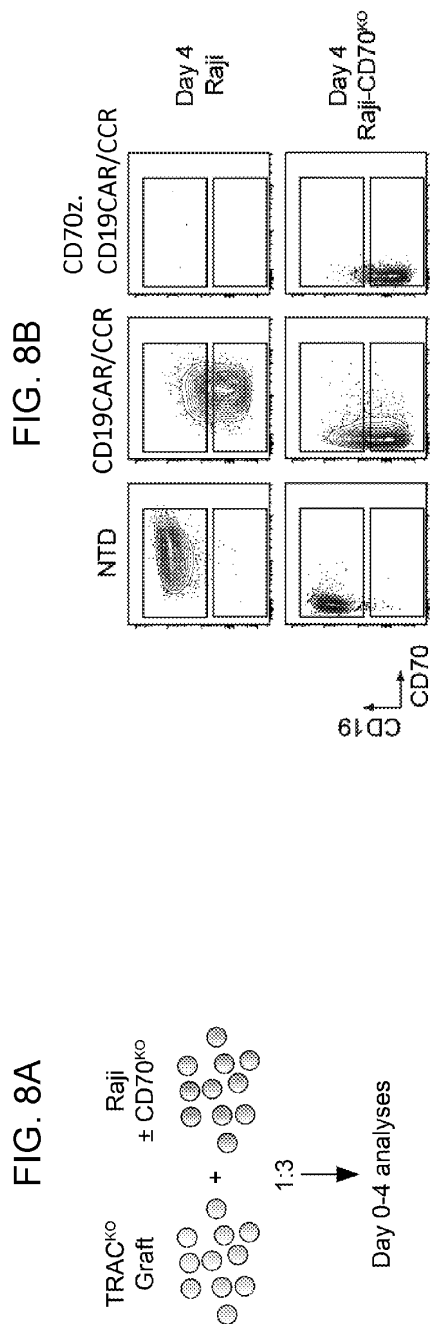


FIG. 8C

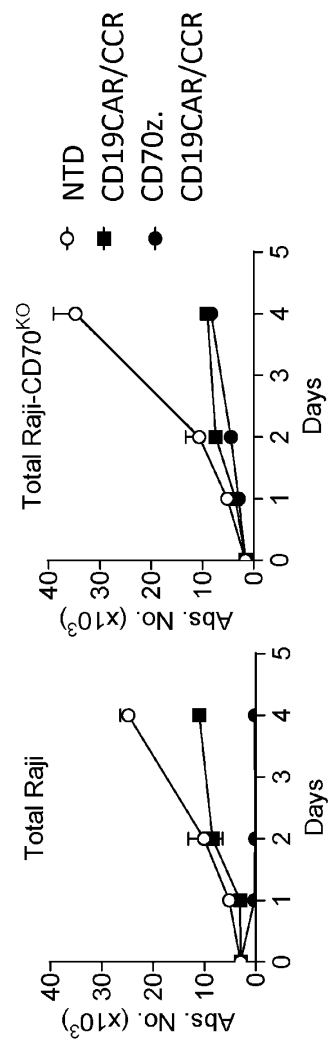


FIG. 8D

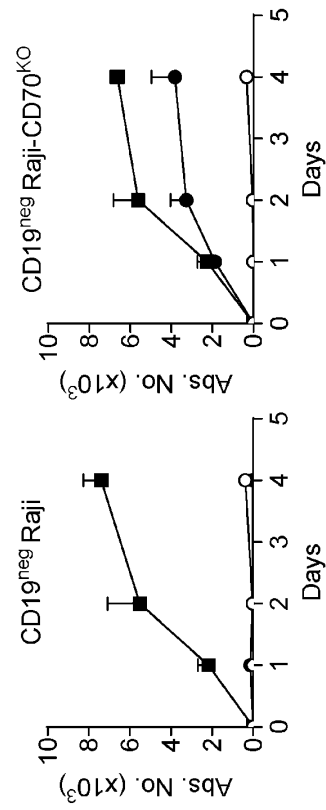


FIG. 8E

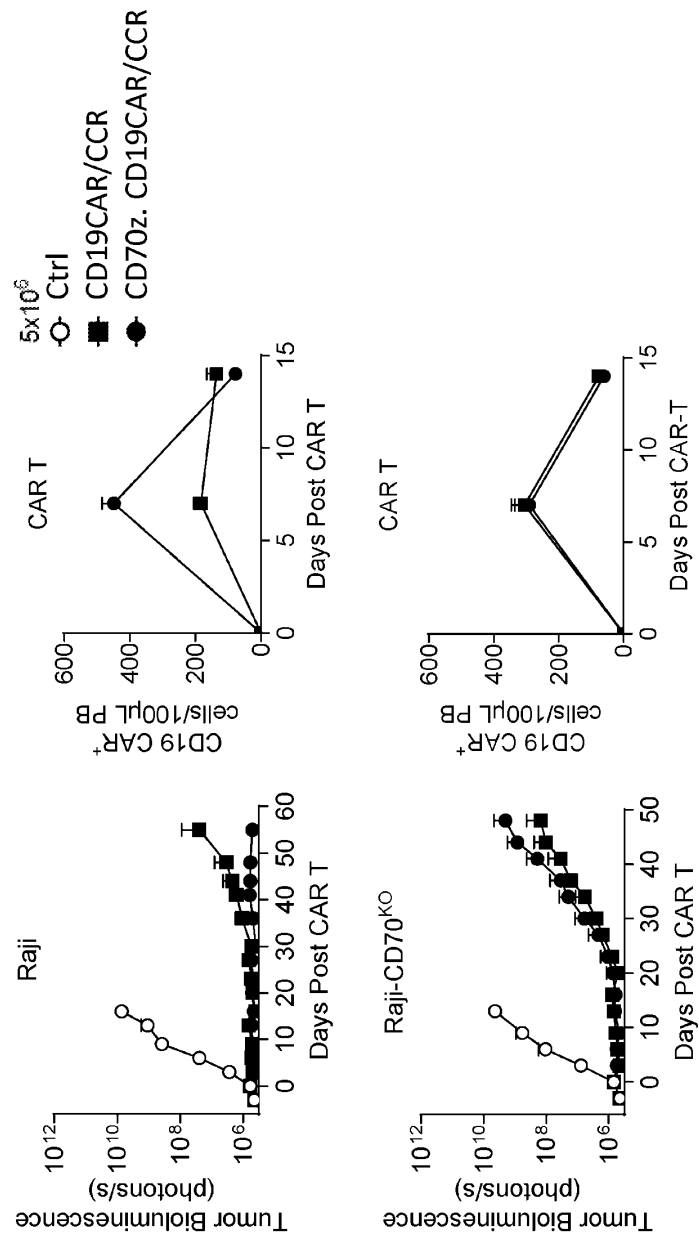


FIG. 8F

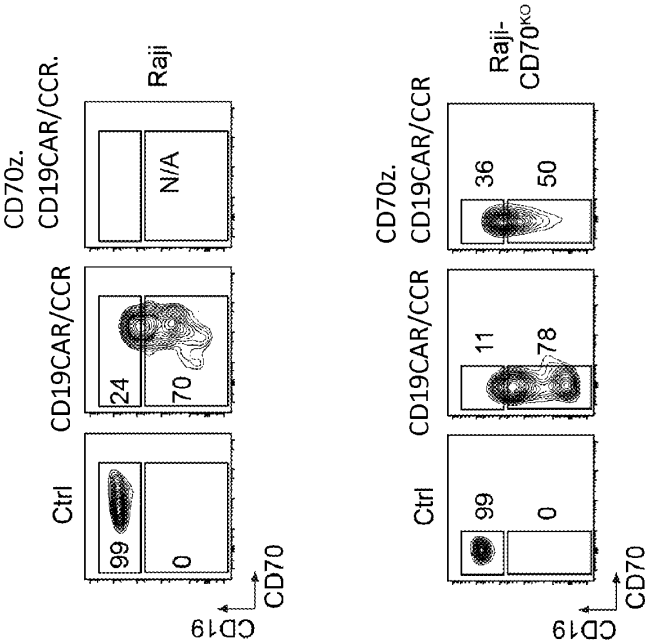


FIG. 9B

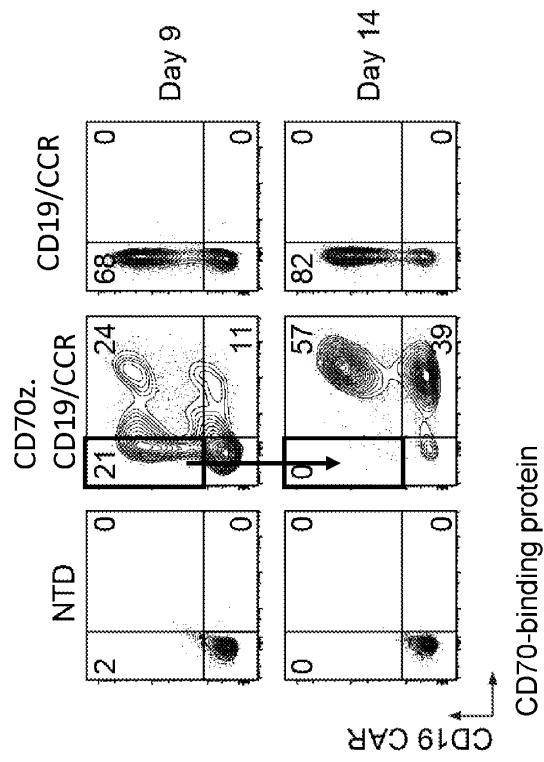


FIG. 9A

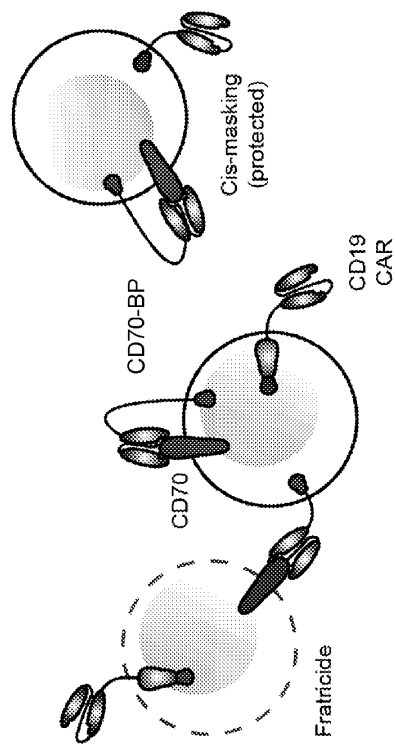


FIG. 10A

Construct Names	Structure
EFS CD70/CD19 Tandem	Anti-CD70 scFv followed by CD19 scFv and BBz under the EFS promoter
PGK SSI CD19/CD70 Dual	Anti-CD19 scFv BBz followed by anti-CD70 scFv z linked by P2A under the PGK SSI-1 promoter
EFS-CD19/CD70 Dual	Anti-CD19 scFv BBz followed by anti-CD70 scFv z linked by P2A under the EFS promoter
PGK SSI CD70z.CD19/CCR	Anti-CD70 scFv z SSI into CD52 locus under the PGK SSI-1 promoter, and CCR and anti-CD19 BBz linked by P2A peptide, SSI into TRAC locus under the PGK SSI-1 promoter
PGK SSI CD19	Anti-CD19 scFv BBz SSI into the TRAC locus under the PGK SSI-1 promoter

Fig. 10D

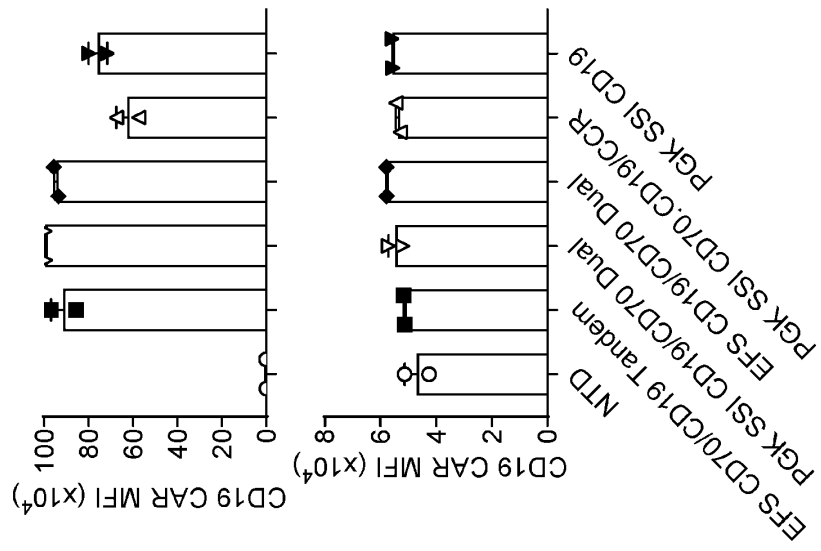


Fig. 10C

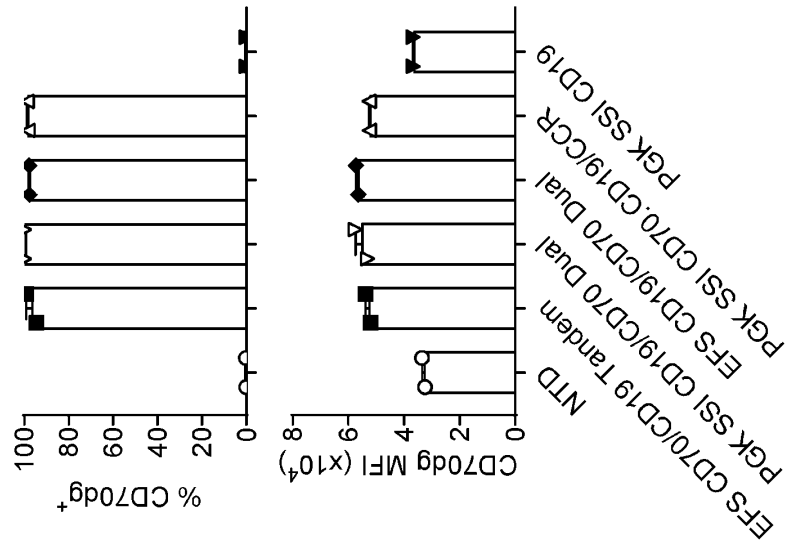


FIG. 10E

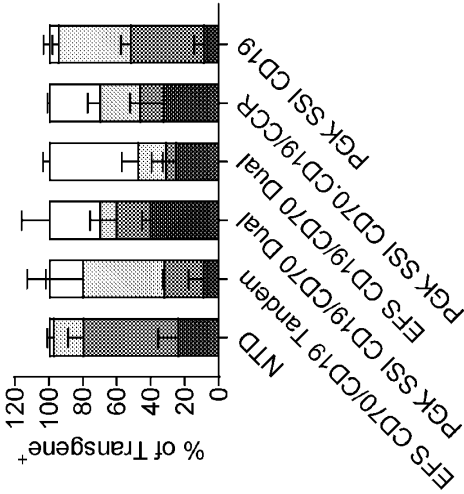


FIG. 10F

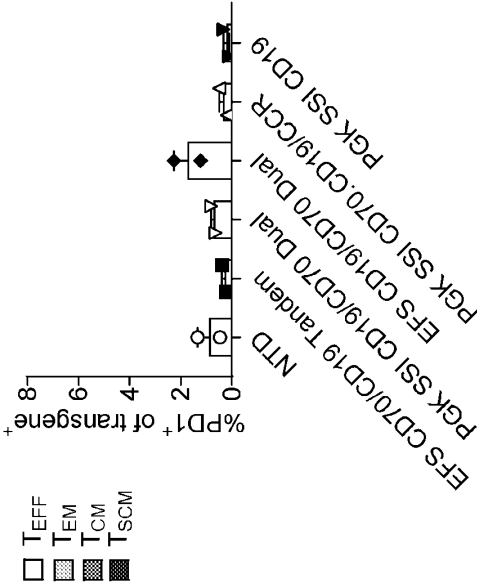


FIG. 10G

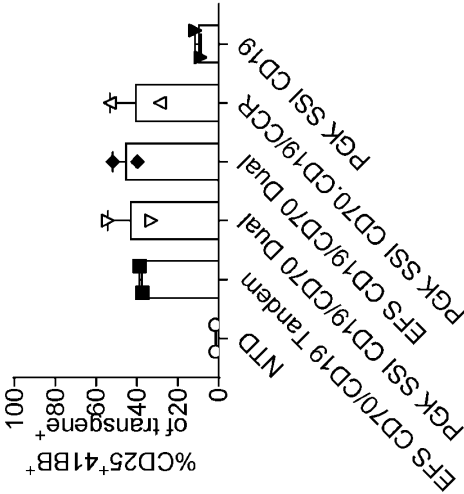


FIG. 10I

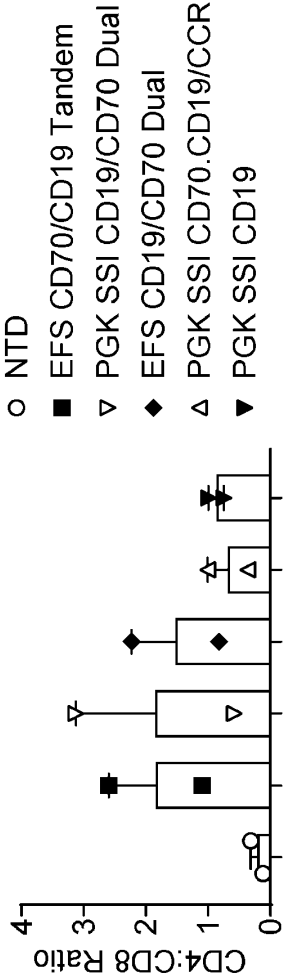


FIG. 10H

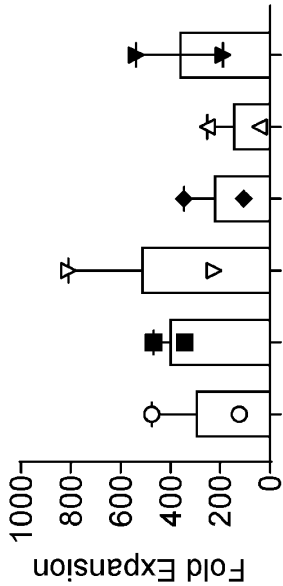


FIG. 11A

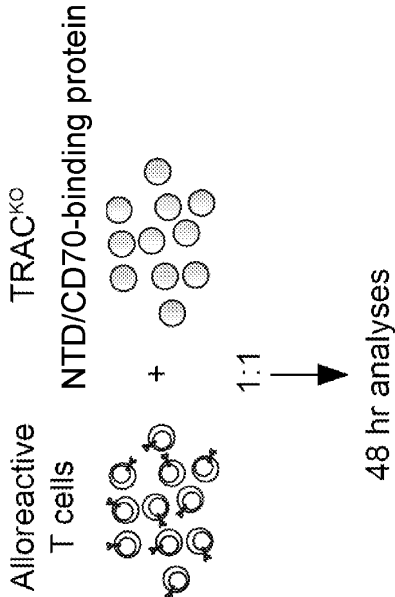


FIG. 11B

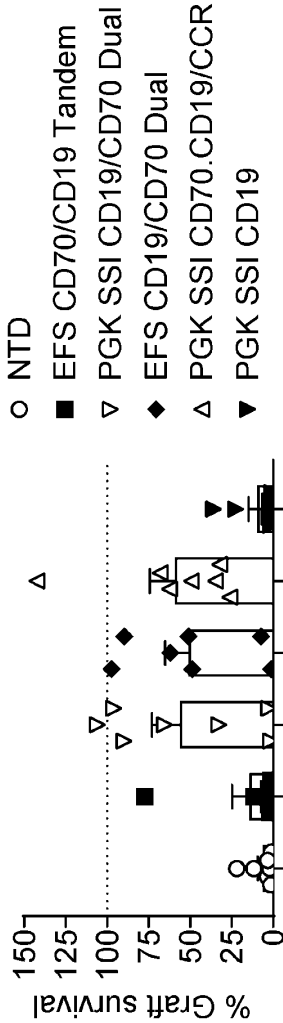


FIG. 12B

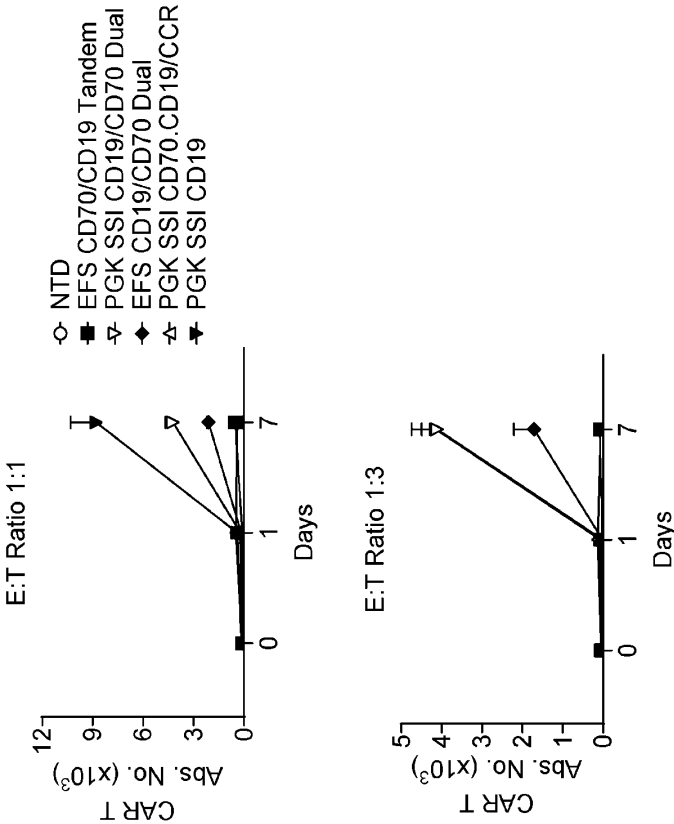


FIG. 12A

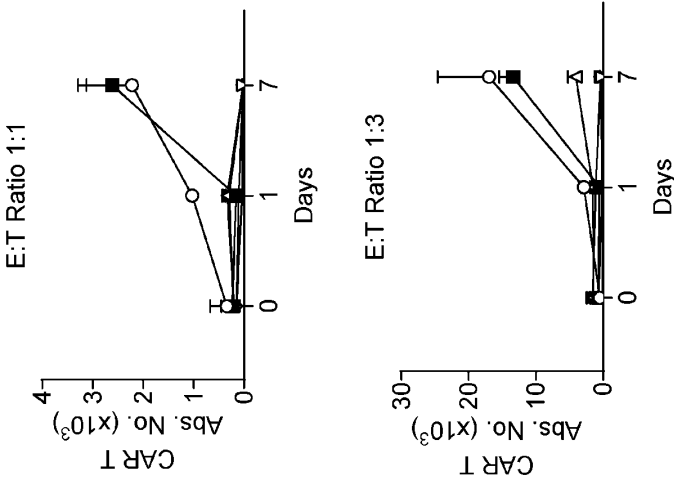


FIG. 12C

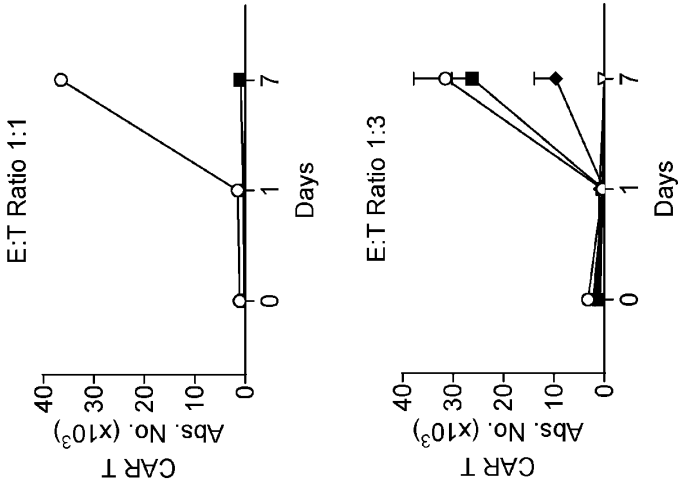


FIG. 12D

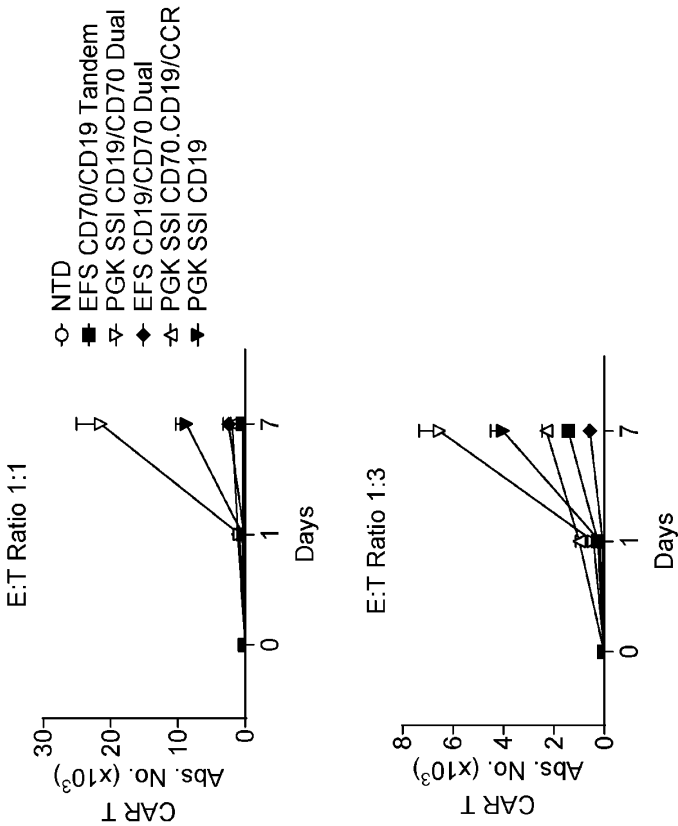


FIG. 13B

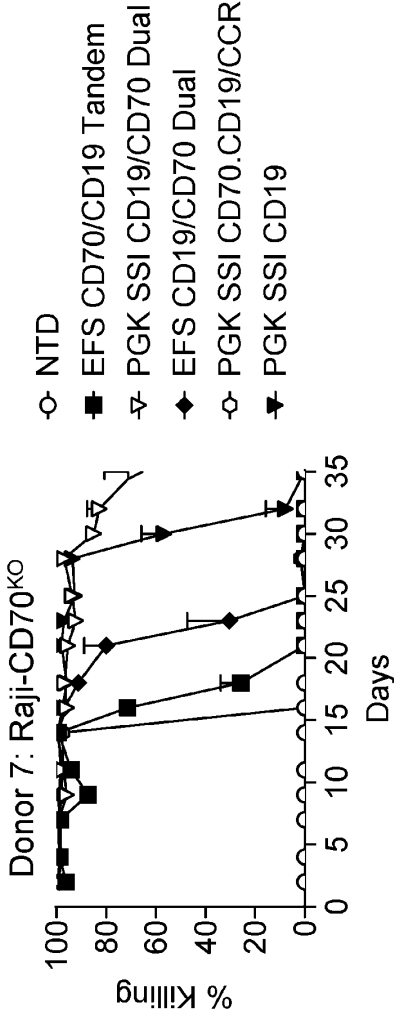


FIG. 13A

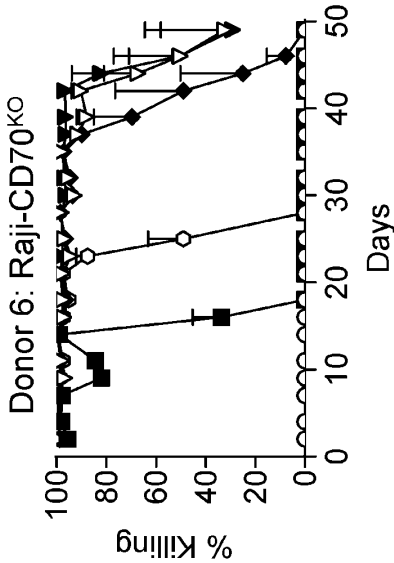


FIG. 14B

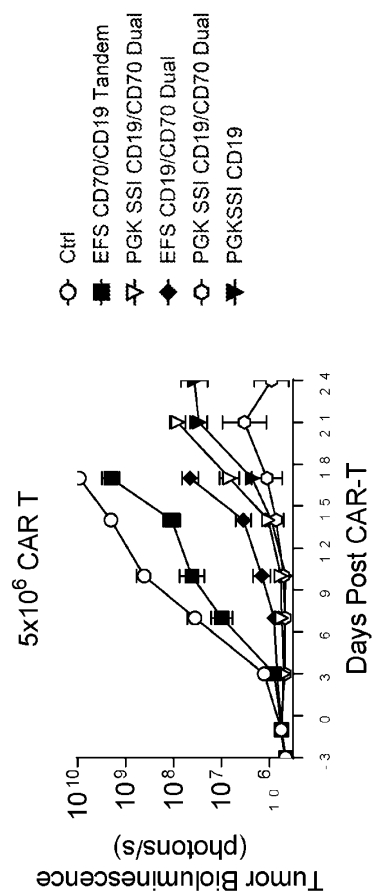


FIG. 14C

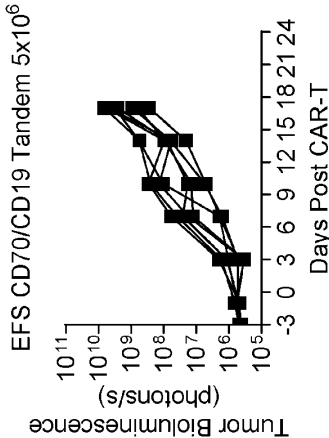


FIG. 14D

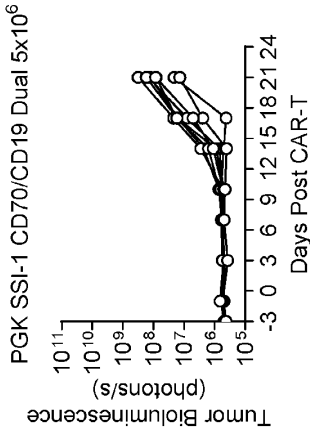
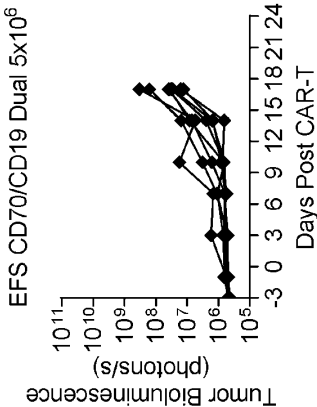


FIG. 14E

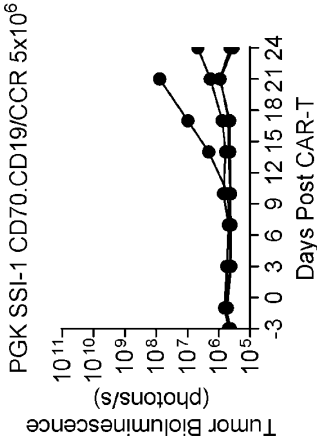


FIG. 14F

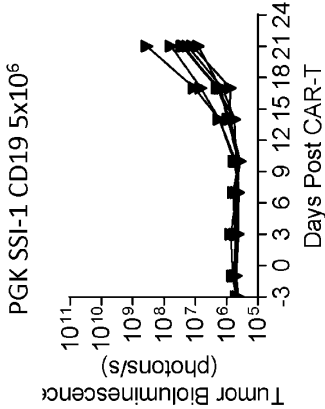


FIG. 14G

FIG. 15B

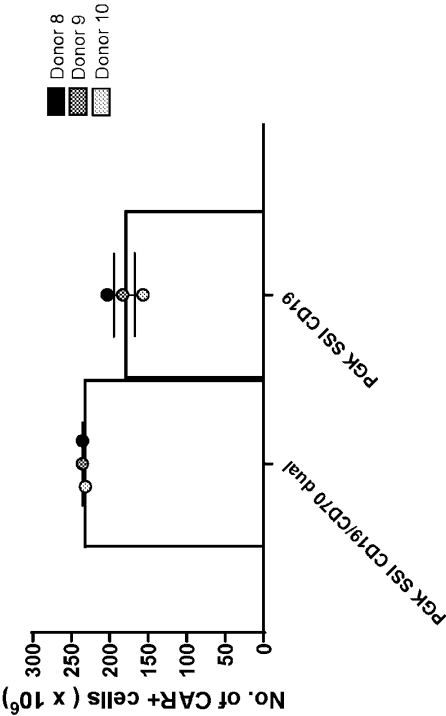


FIG. 15A

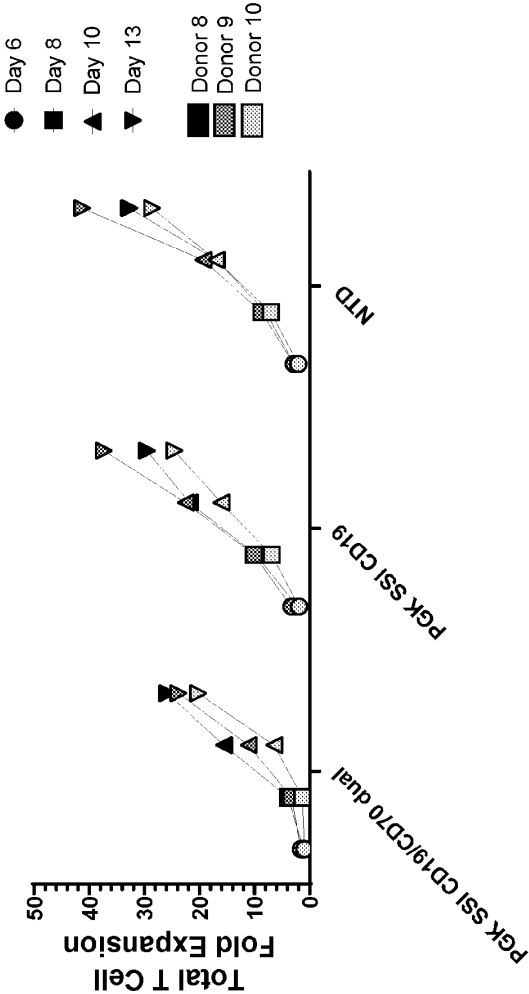


FIG. 15D

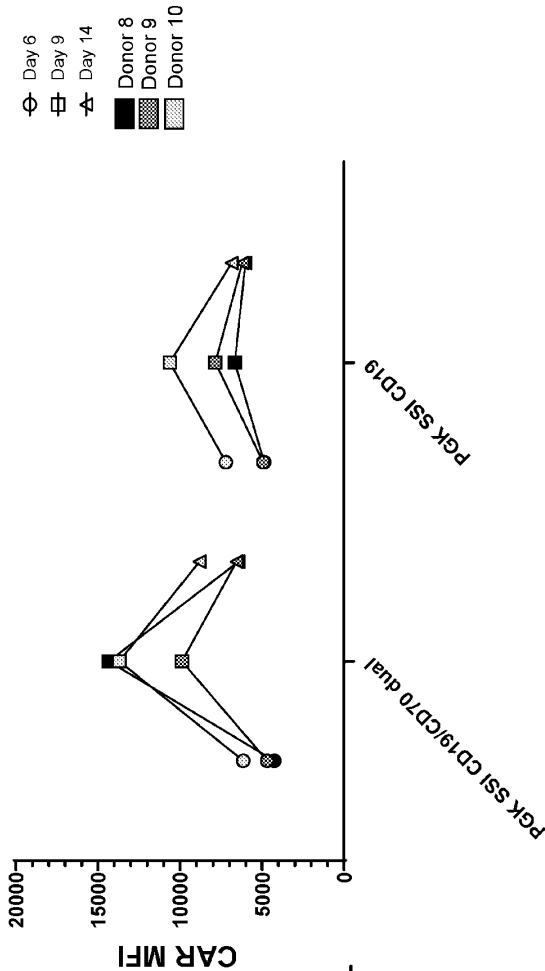
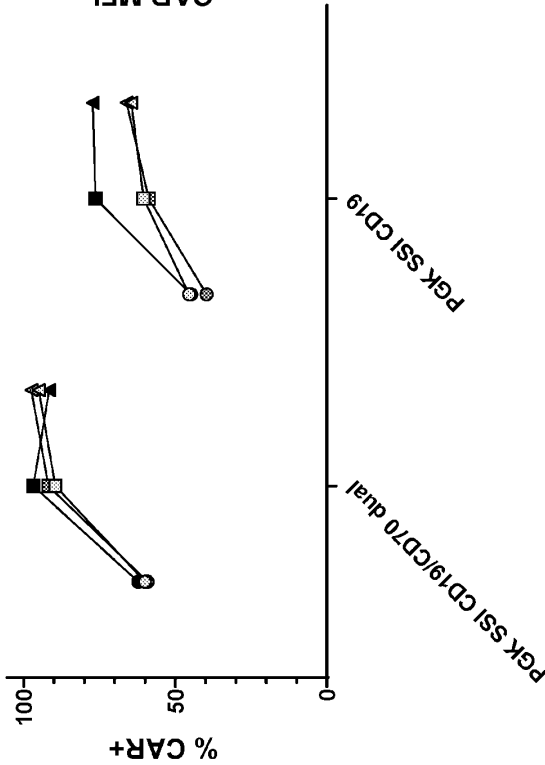


FIG. 15C



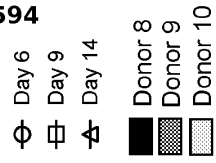


FIG. 15F

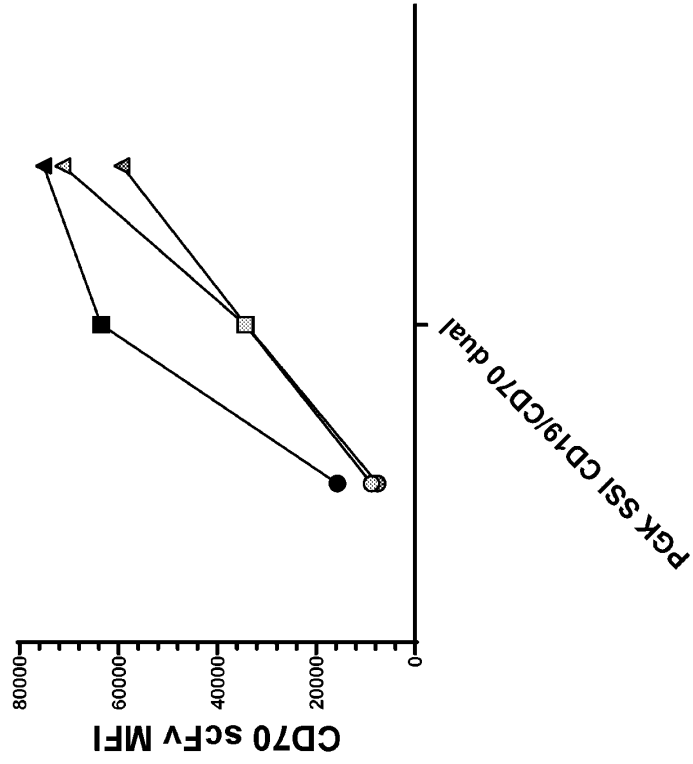
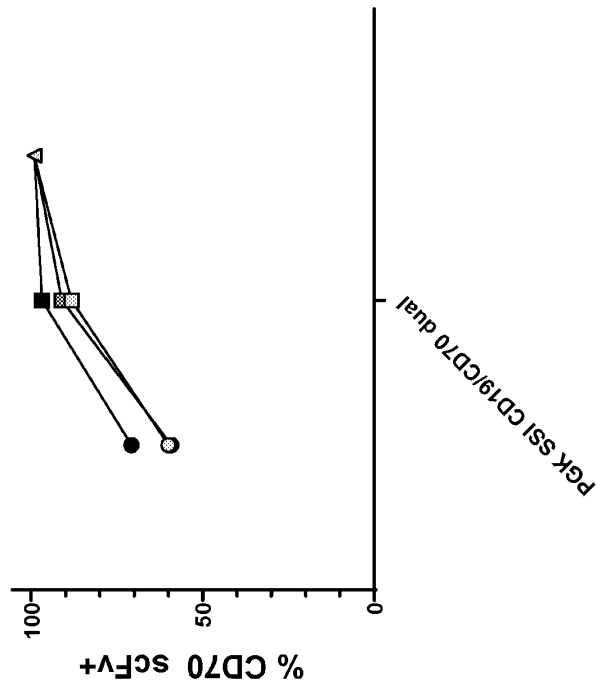


FIG. 15E



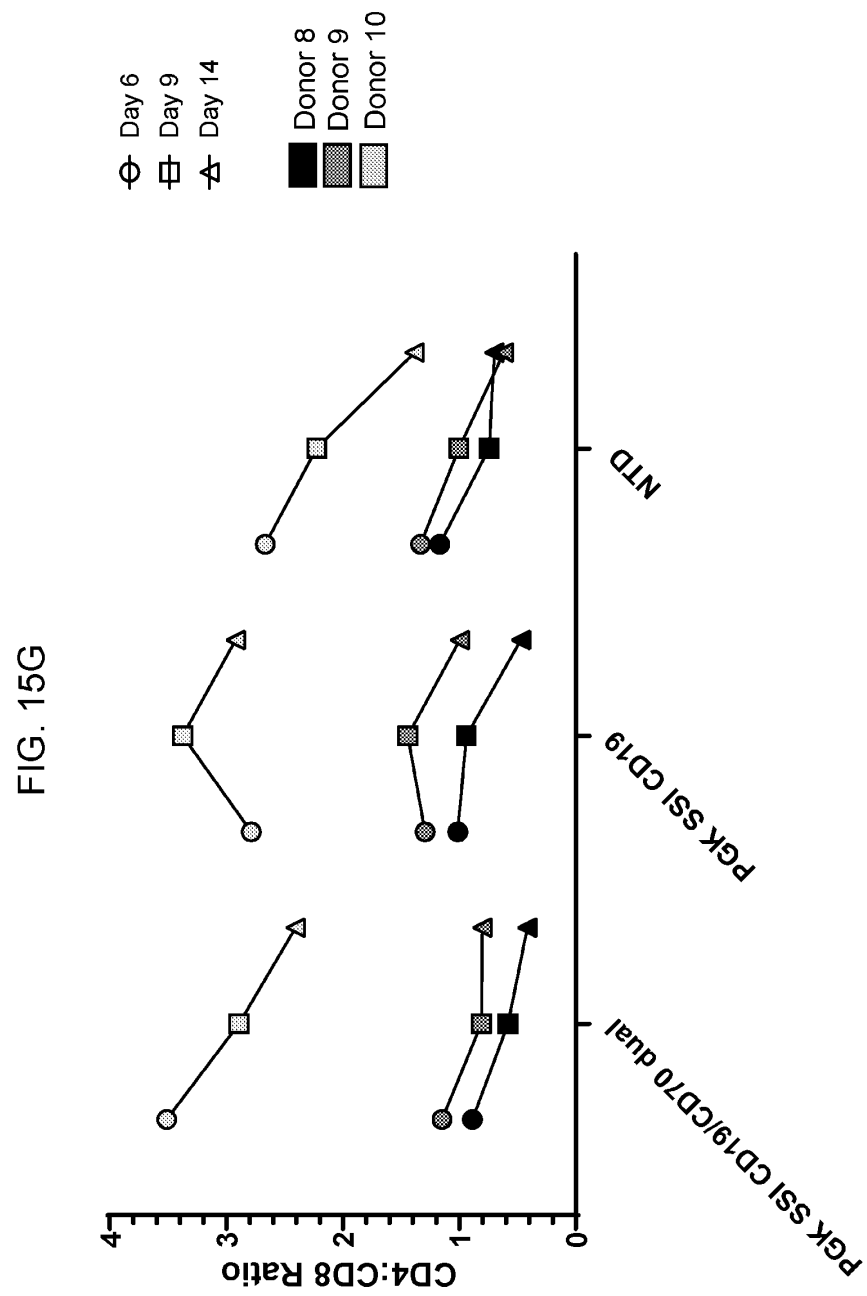


FIG. 15I

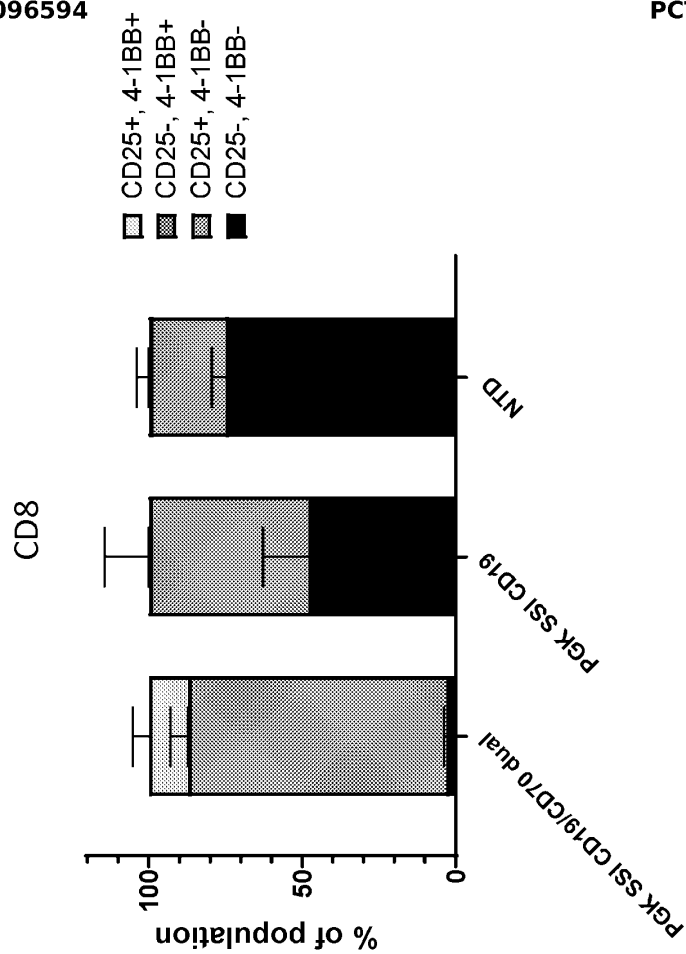


FIG. 15H

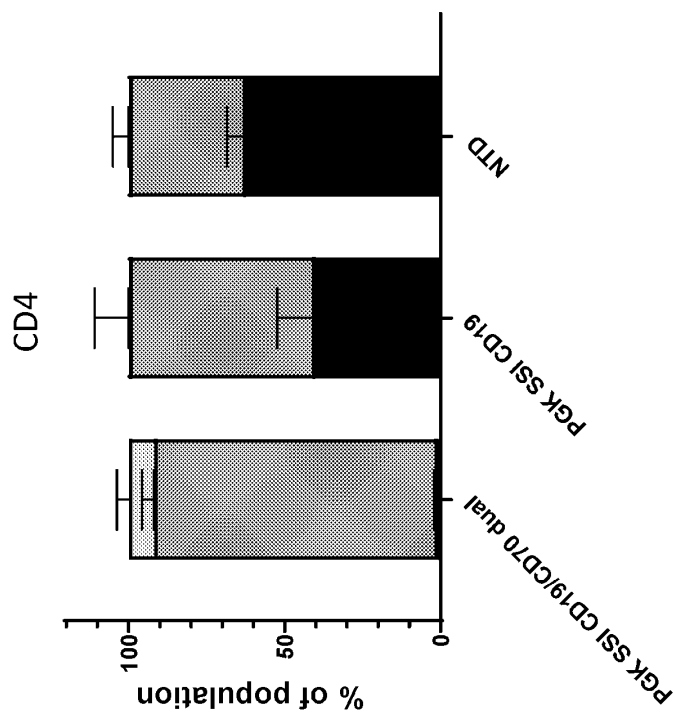


FIG. 15K

CD8

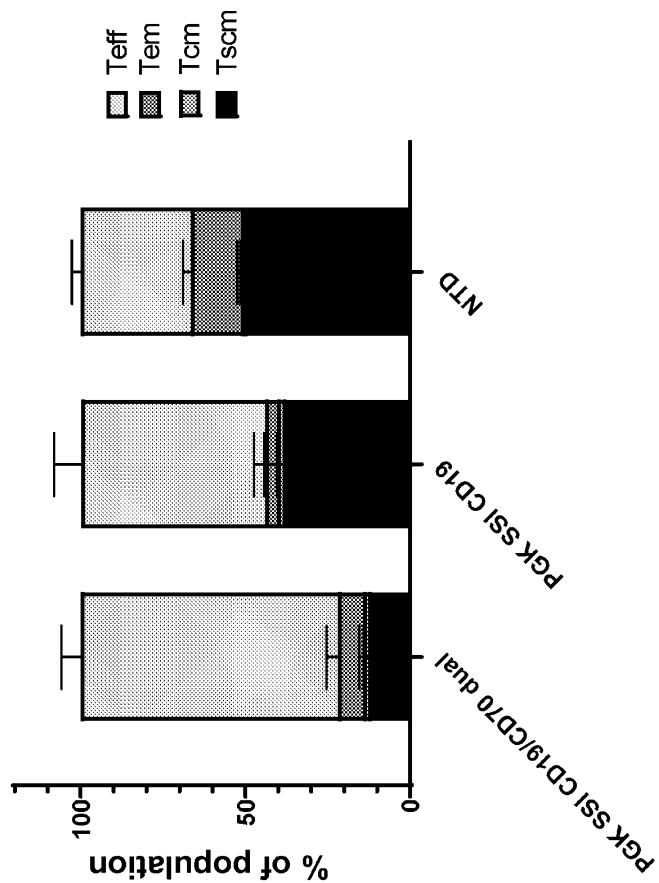


FIG. 15J

CD4

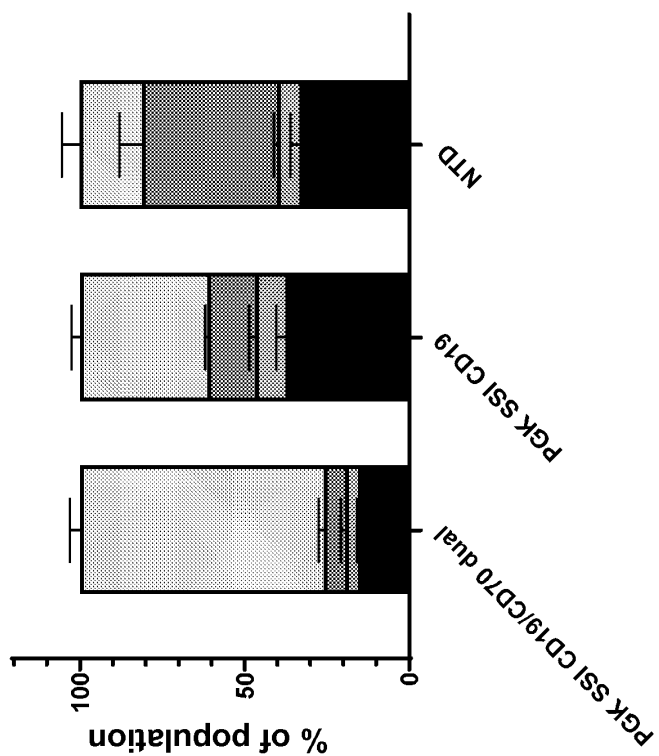


FIG. 16A

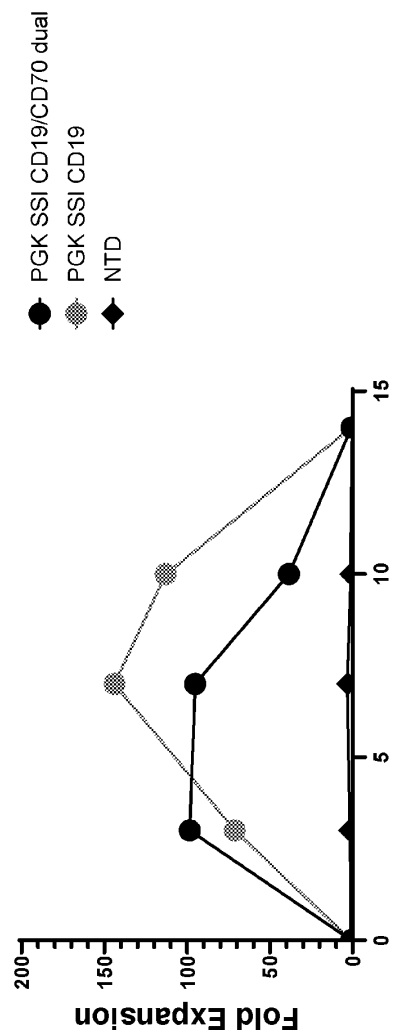
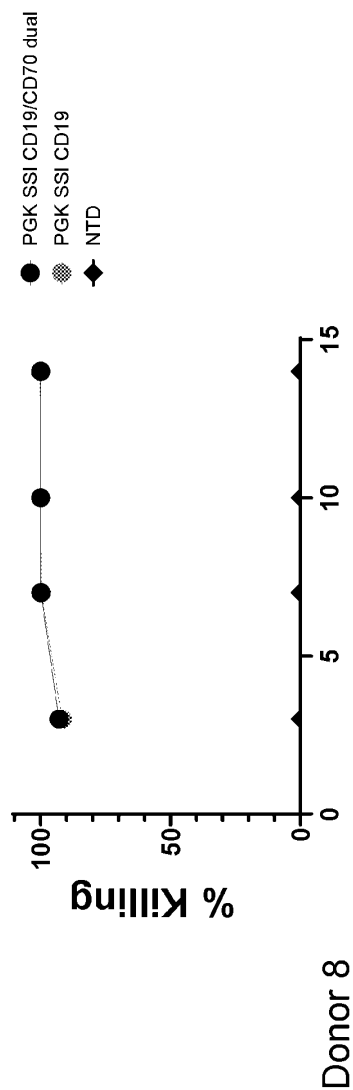
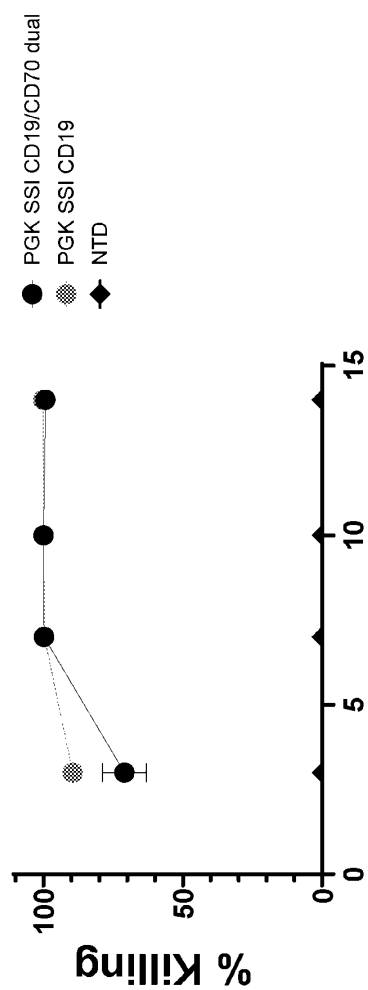


FIG. 16B



Donor 9

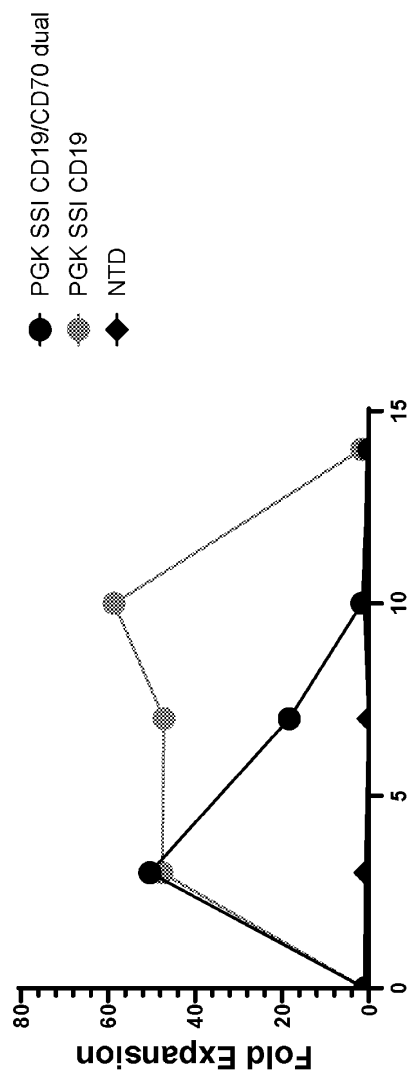


FIG. 16D

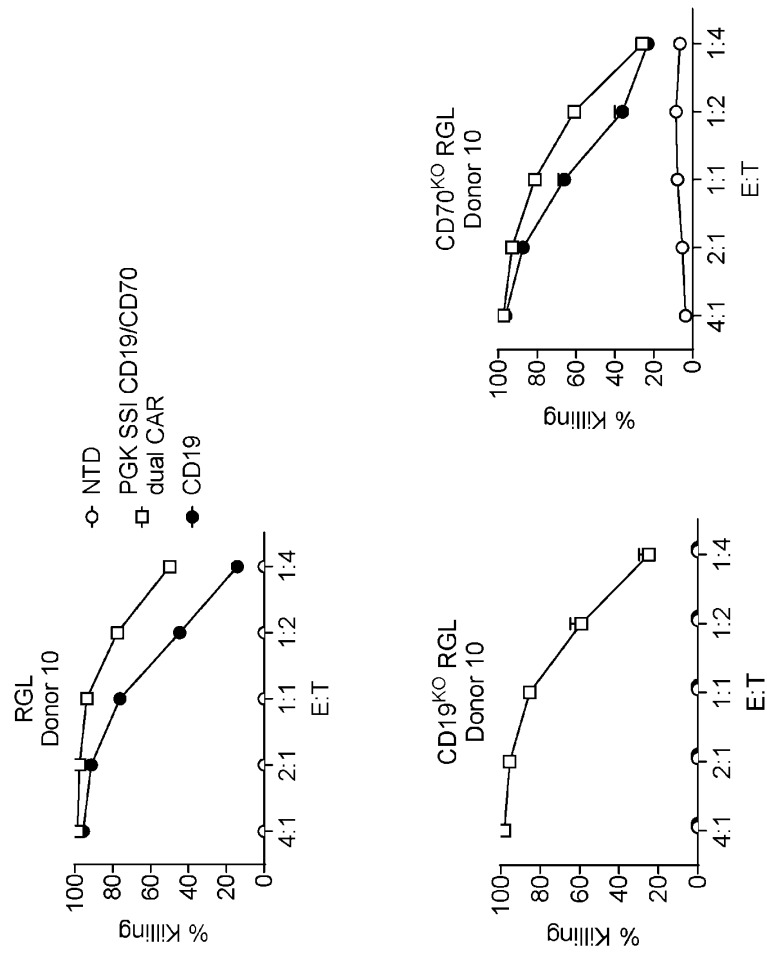


FIG. 16C

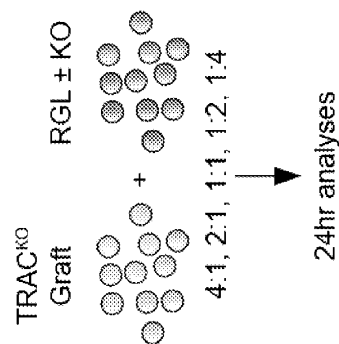


FIG. 16F

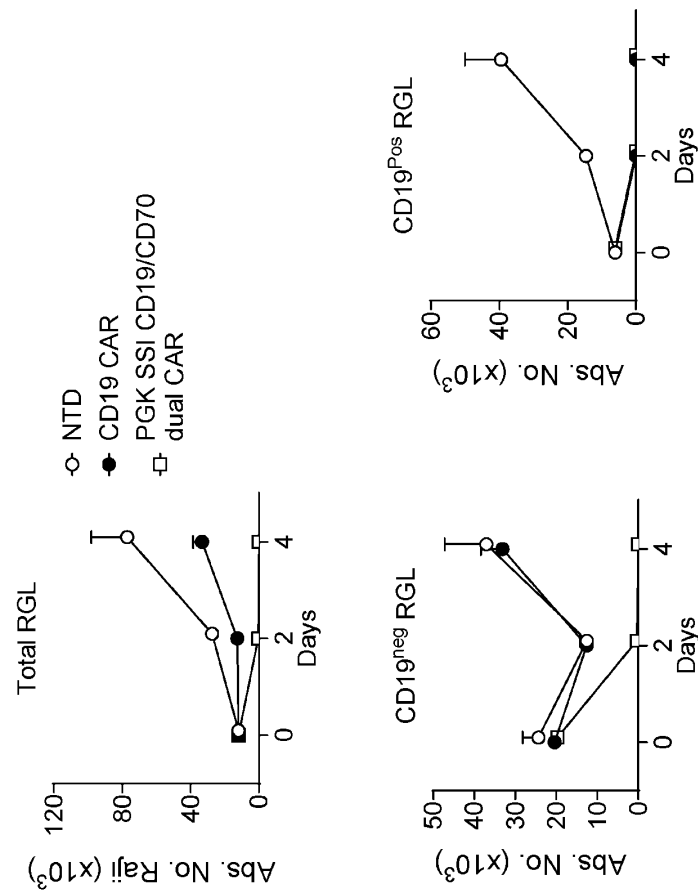


FIG. 16E

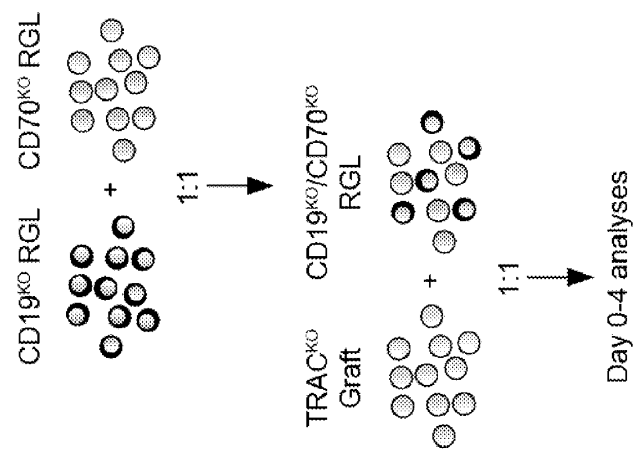


FIG. 16H

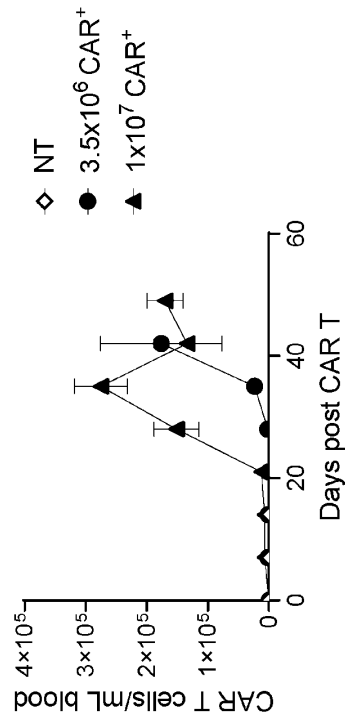


FIG. 16G

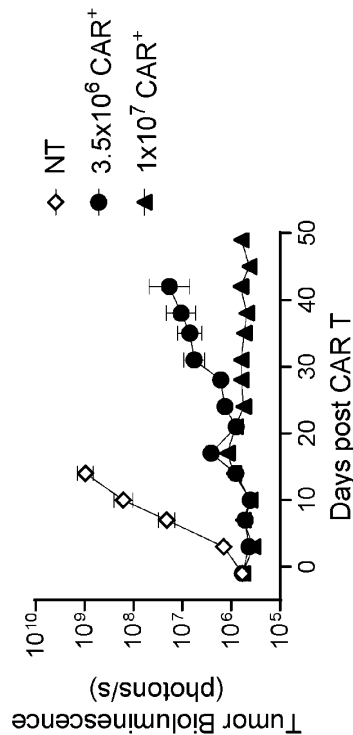


FIG. 16I

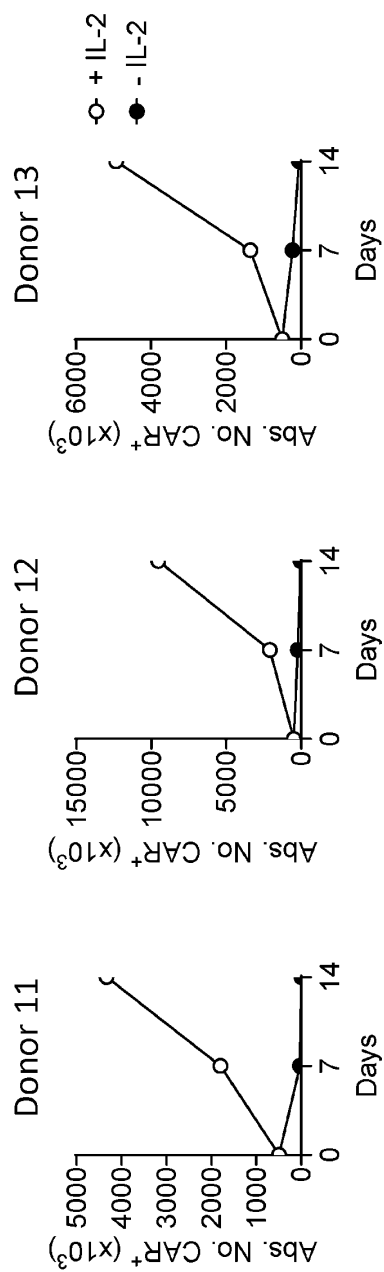


FIG. 17B

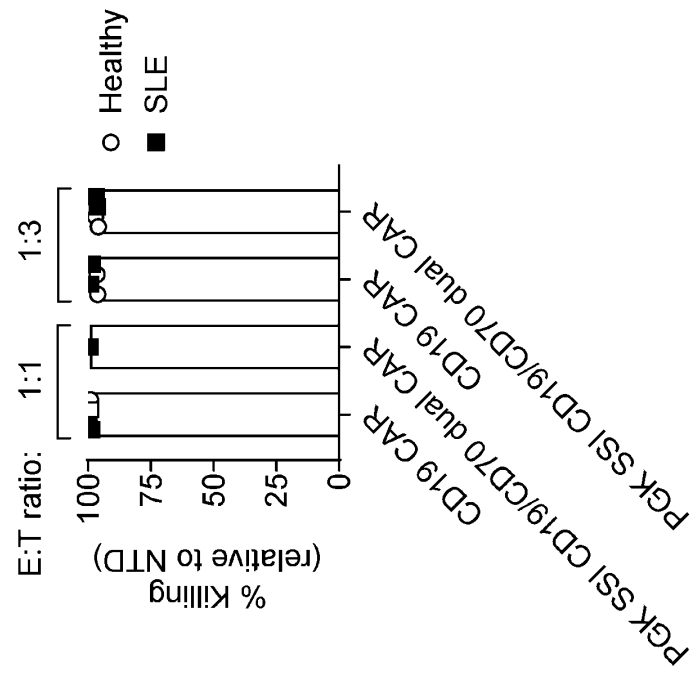
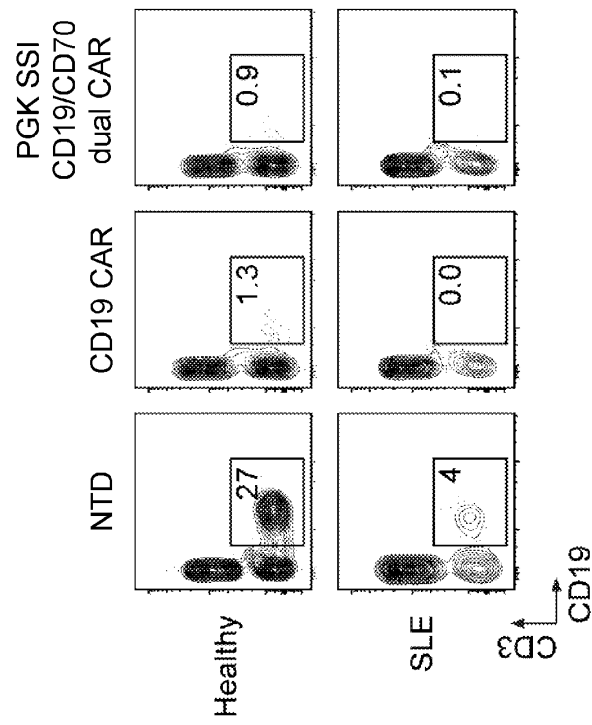


FIG. 17A



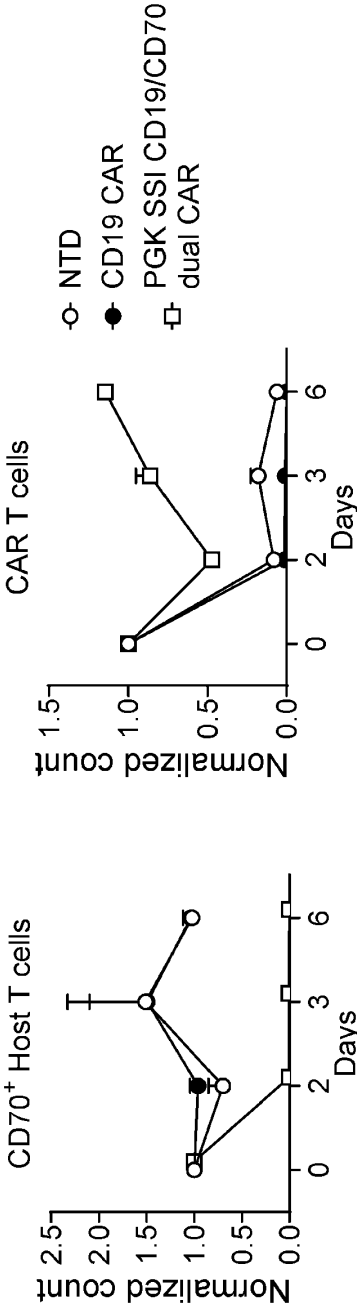


FIG. 18A
Healthy Host

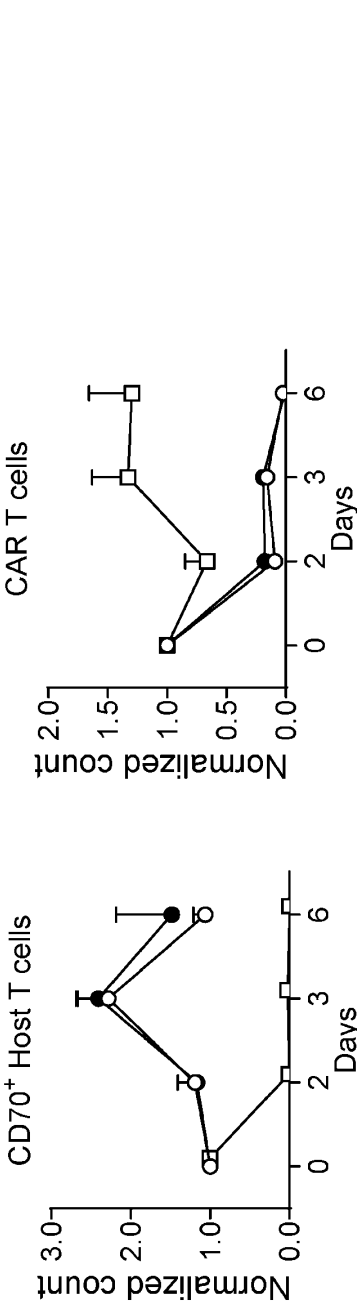


FIG. 18B
SLE Host

FIG. 19A

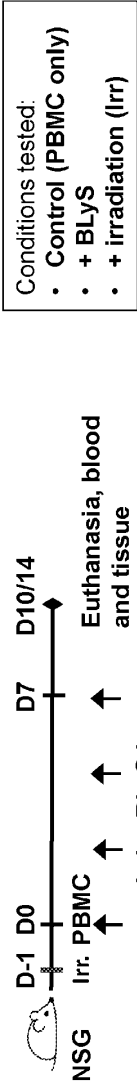


FIG. 19B

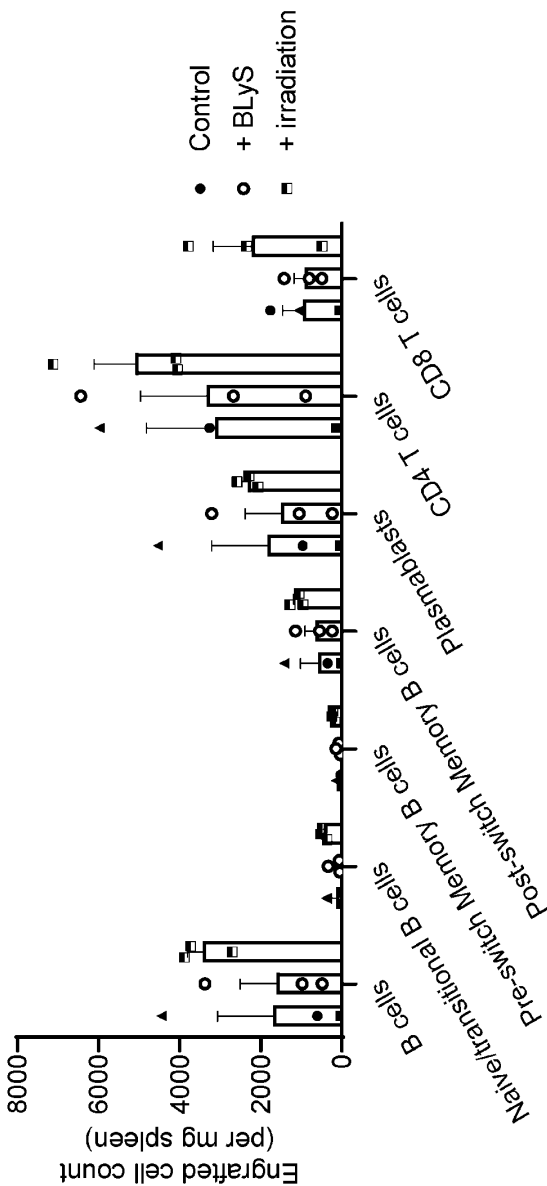


FIG. 19C

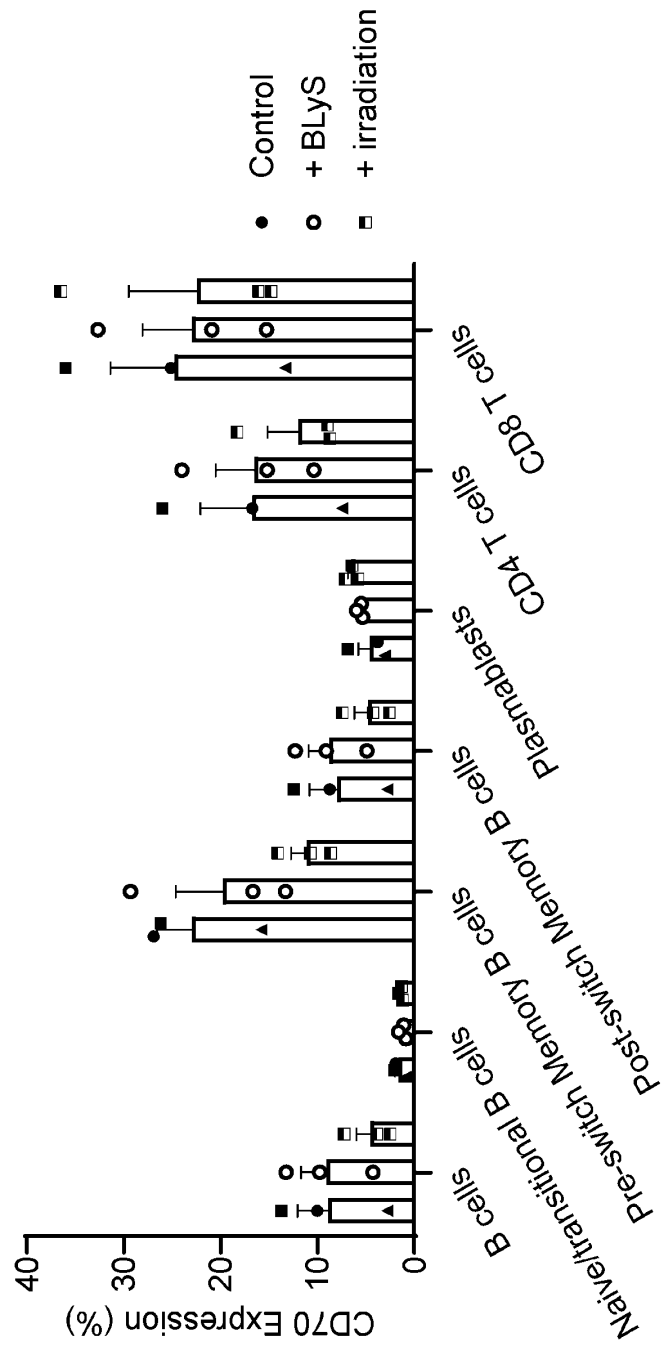


FIG. 20B

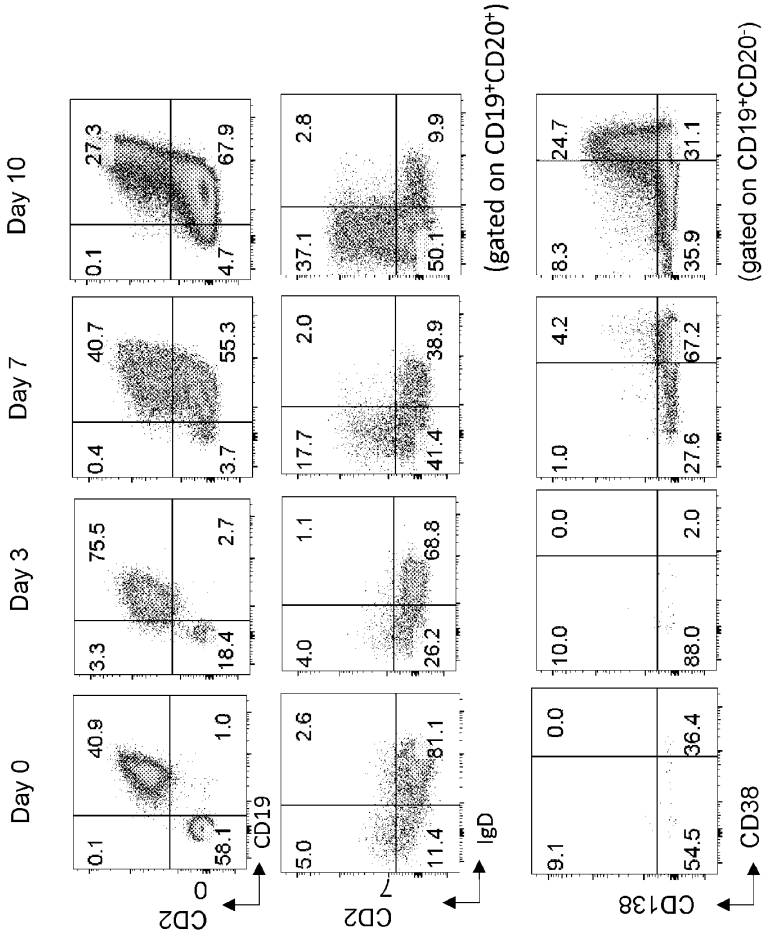
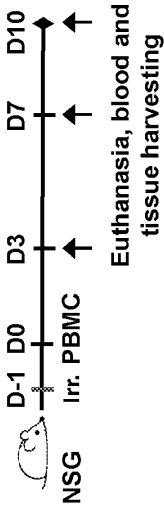


FIG. 20A



- PBMC doses:
- 2×10^7
 - 1×10^7
 - 5×10^6

FIG. 20C

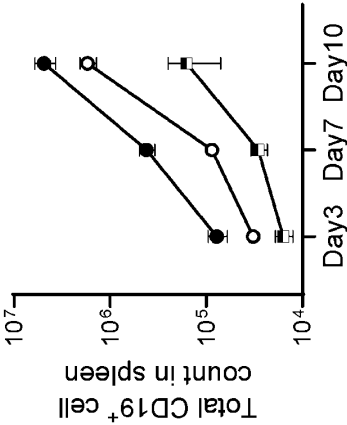


FIG. 20D

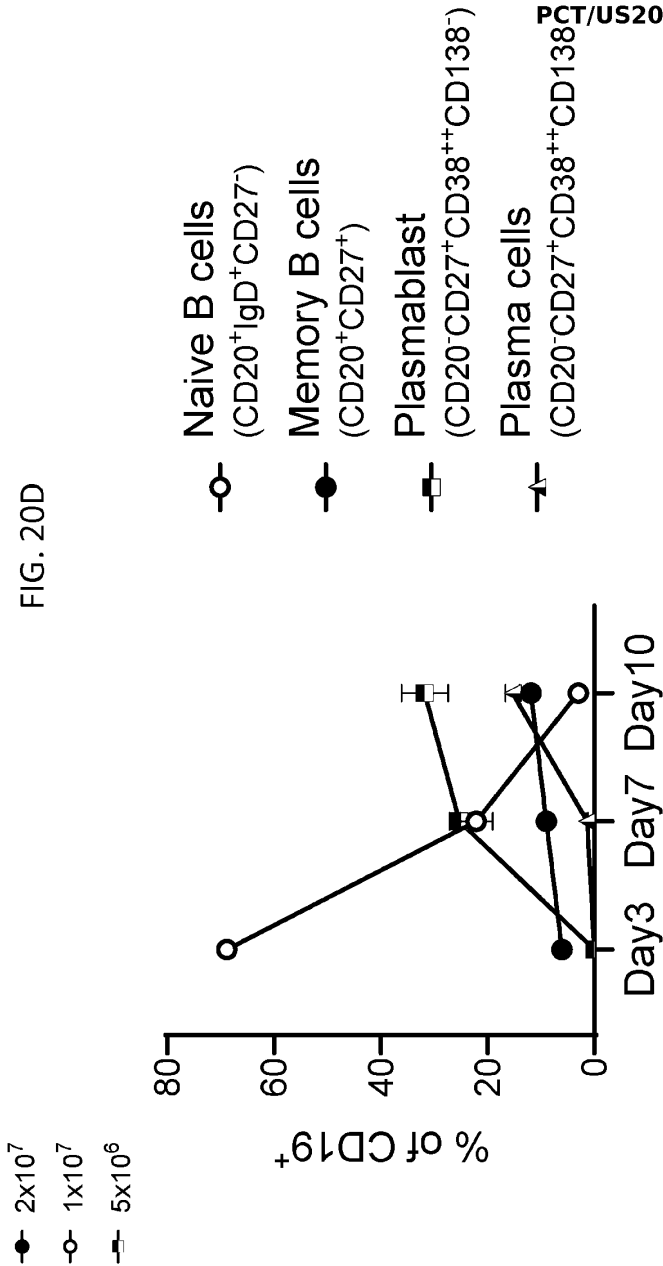


FIG. 20F

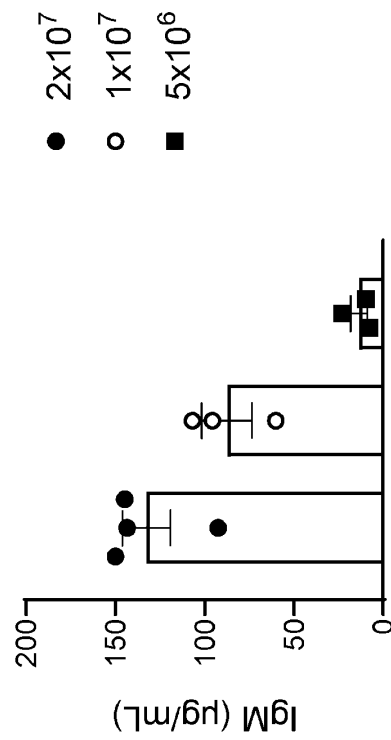


FIG. 20E

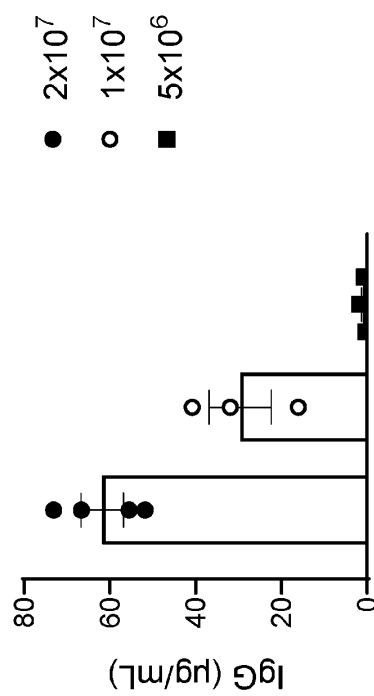


FIG. 21A

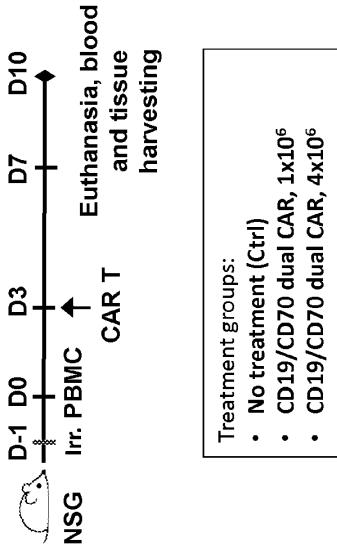


FIG. 21B

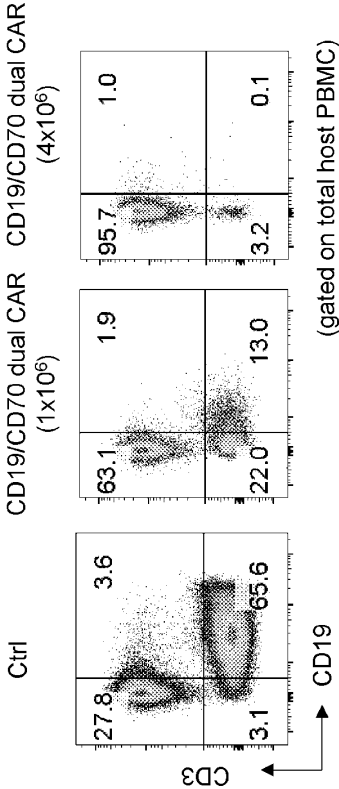


FIG. 21C

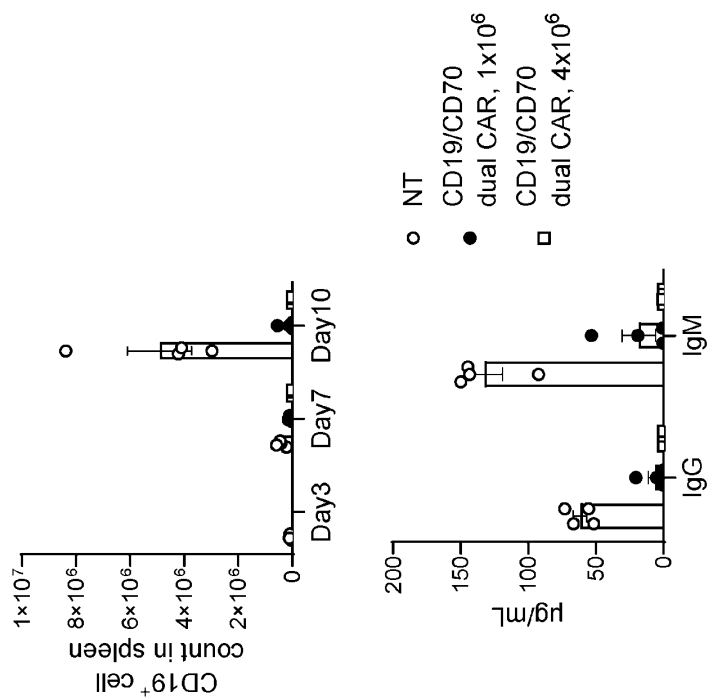


FIG. 21D

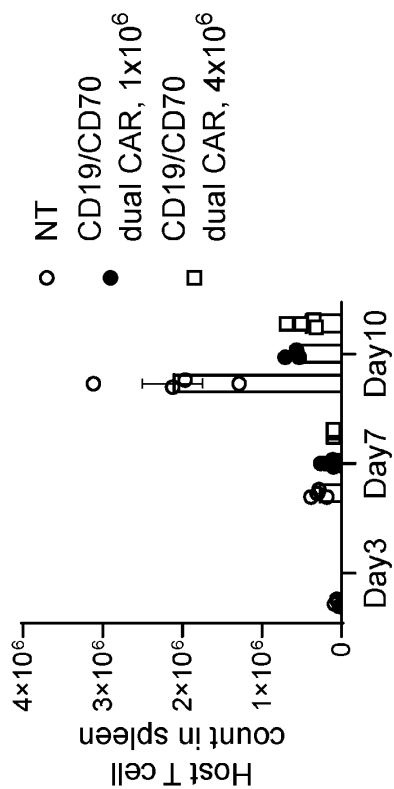


FIG. 21F

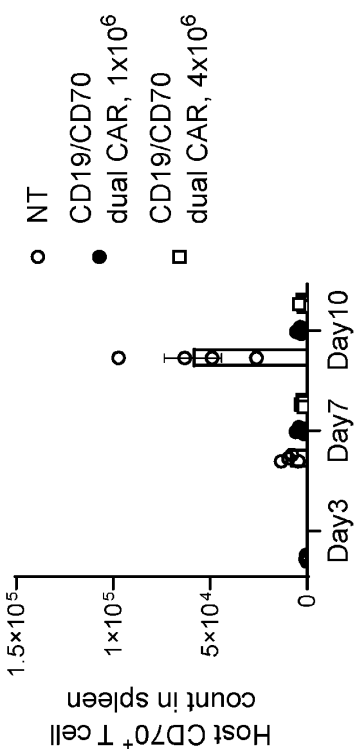
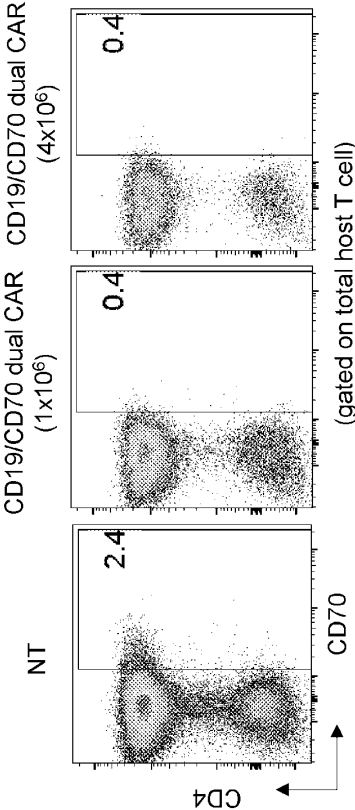


FIG. 21E



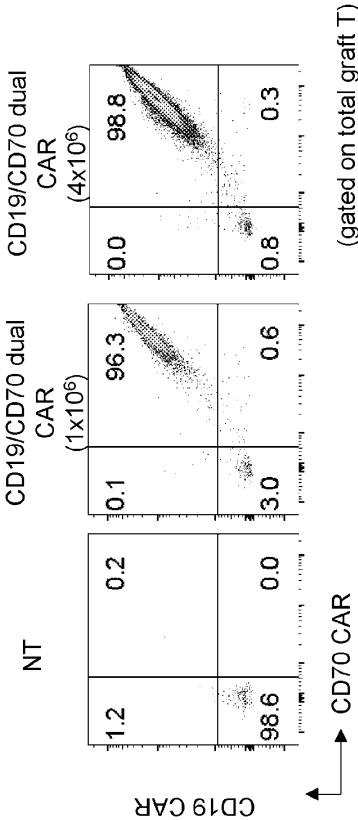


FIG. 21G

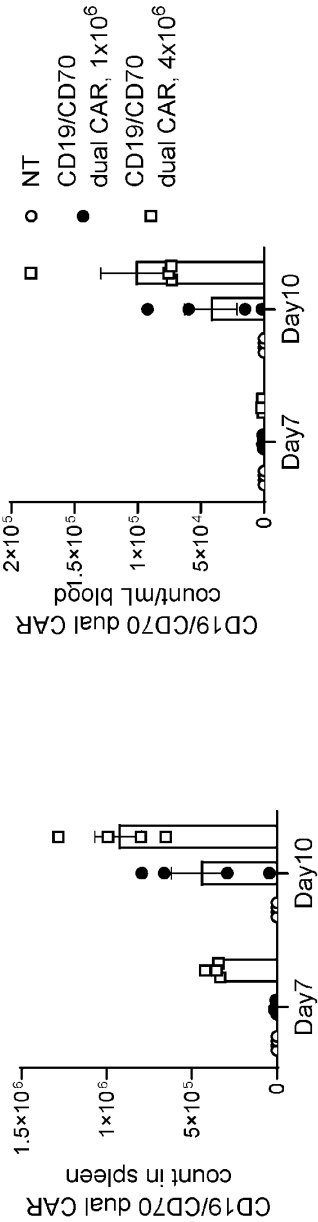
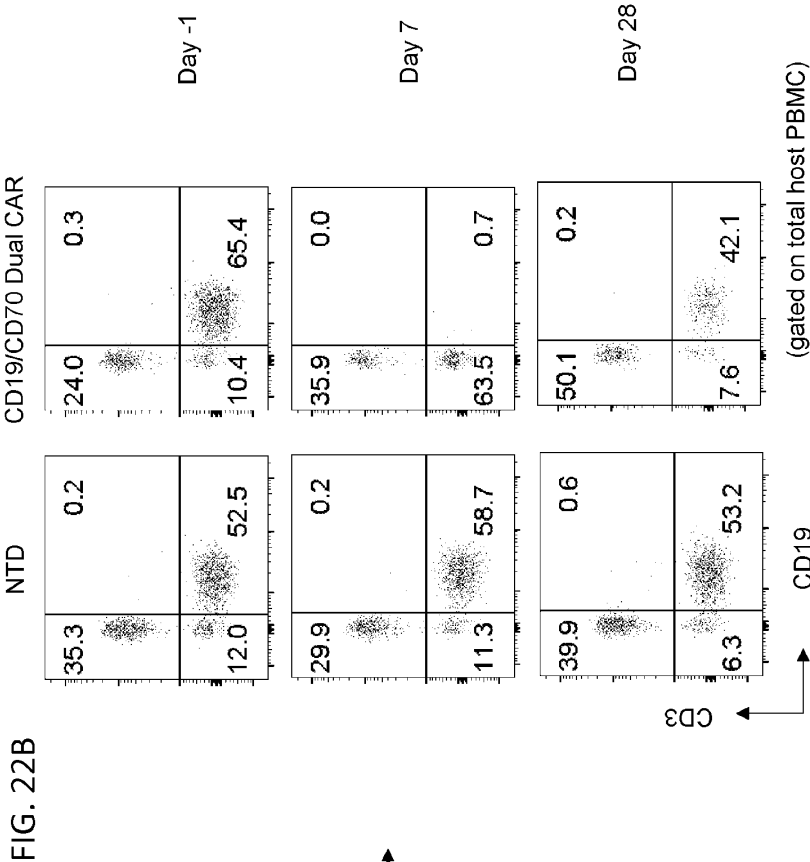


FIG. 21H



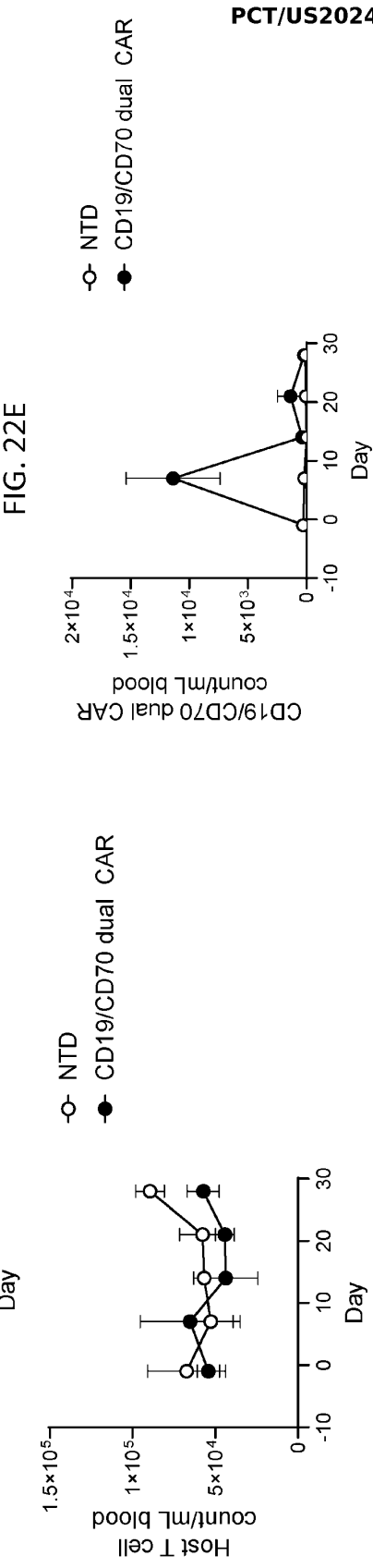
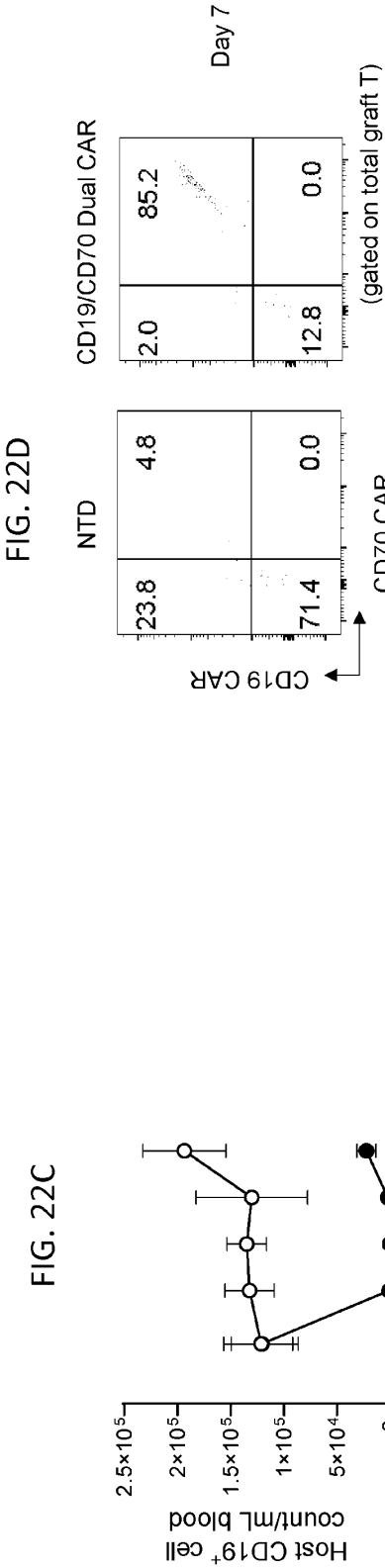


FIG. 23A

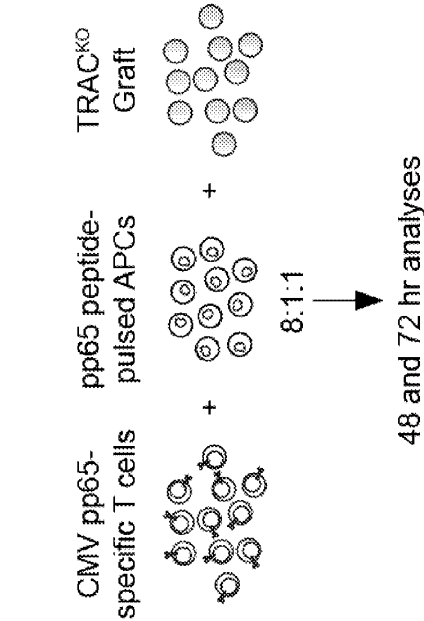


FIG. 23B

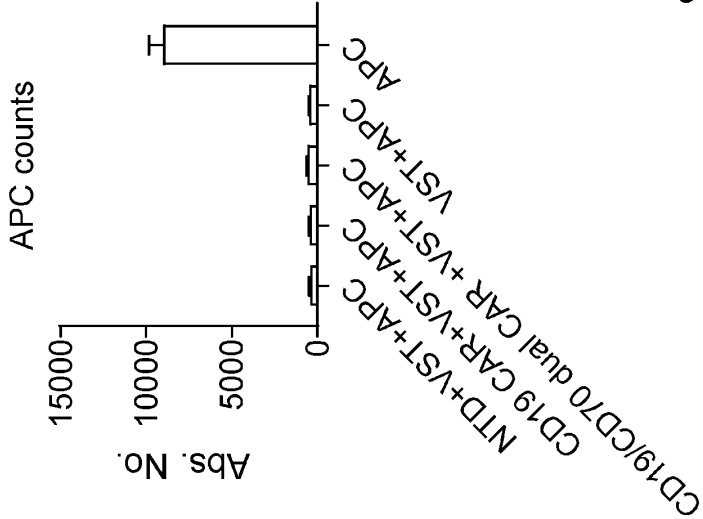


FIG. 23C

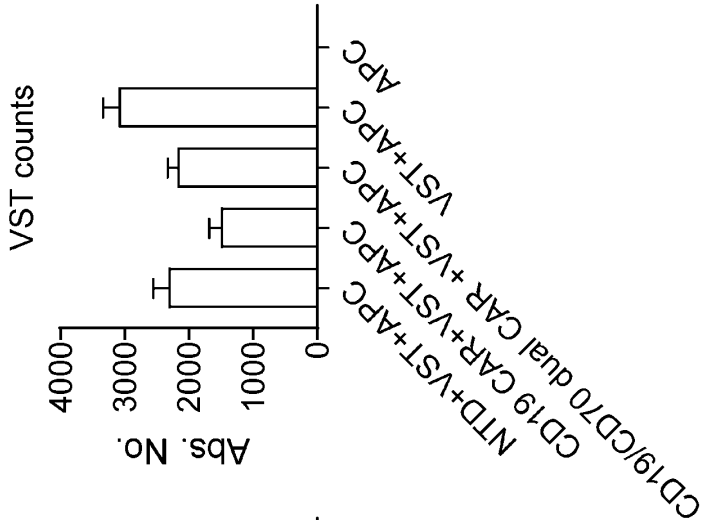


FIG. 24B

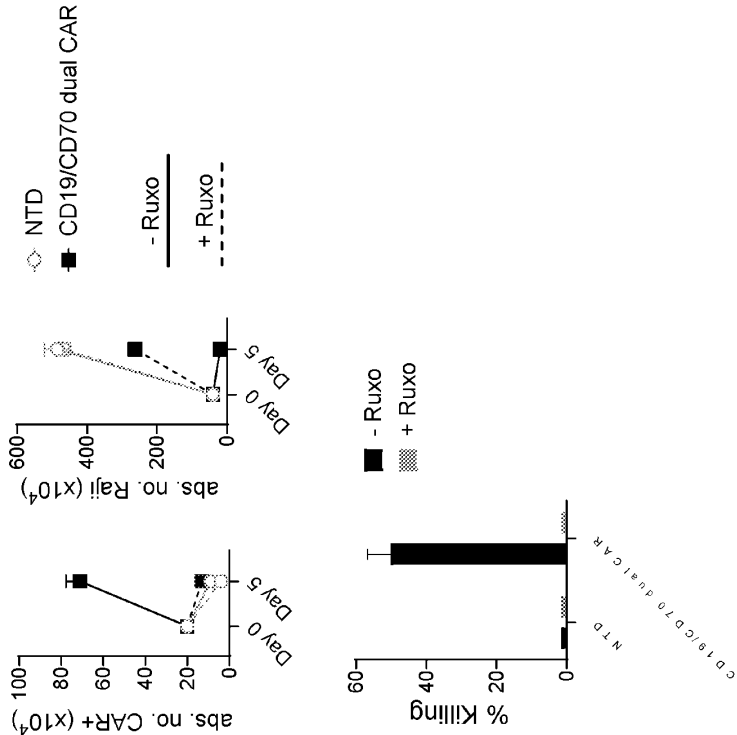


FIG. 24A

