

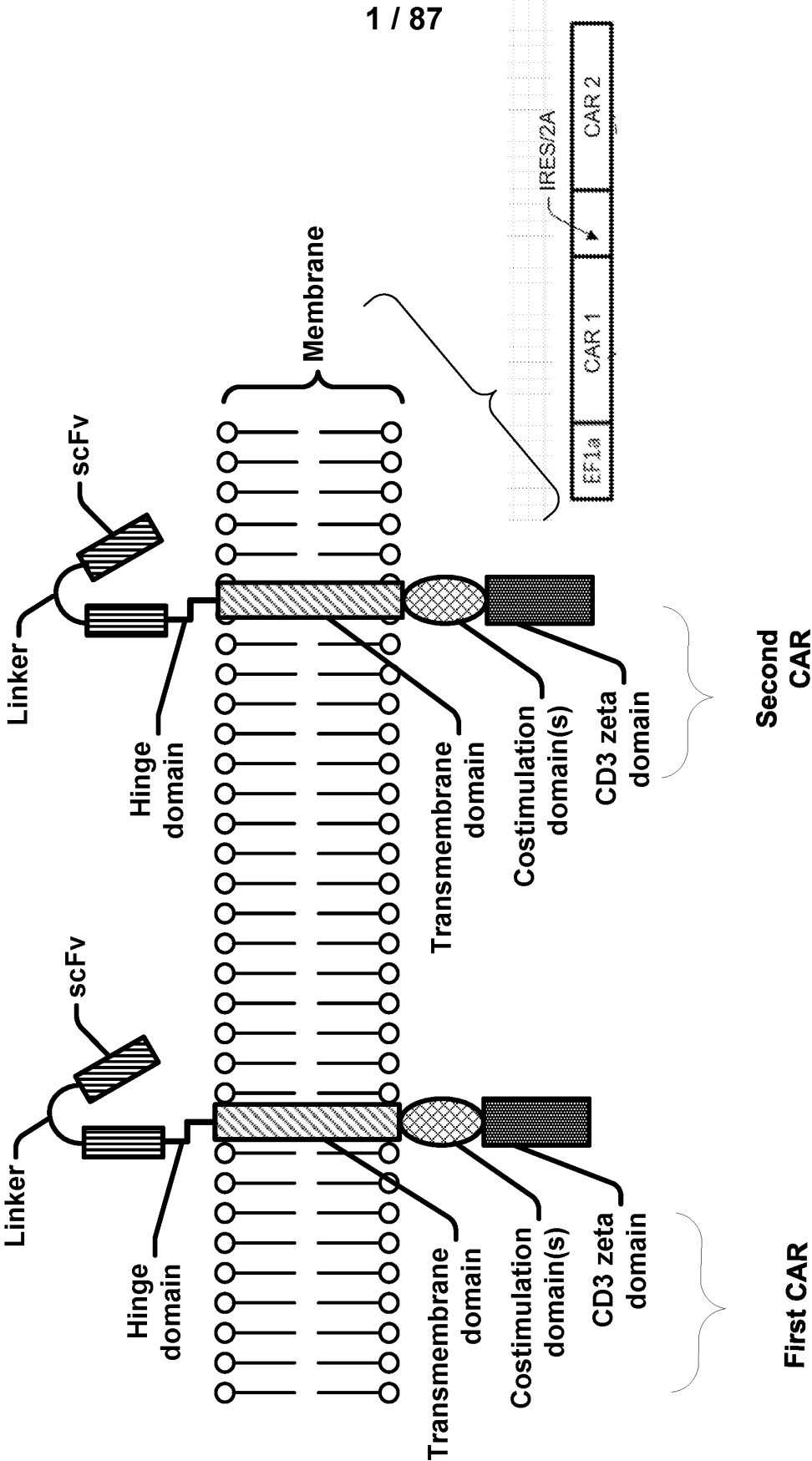


FIG. 1

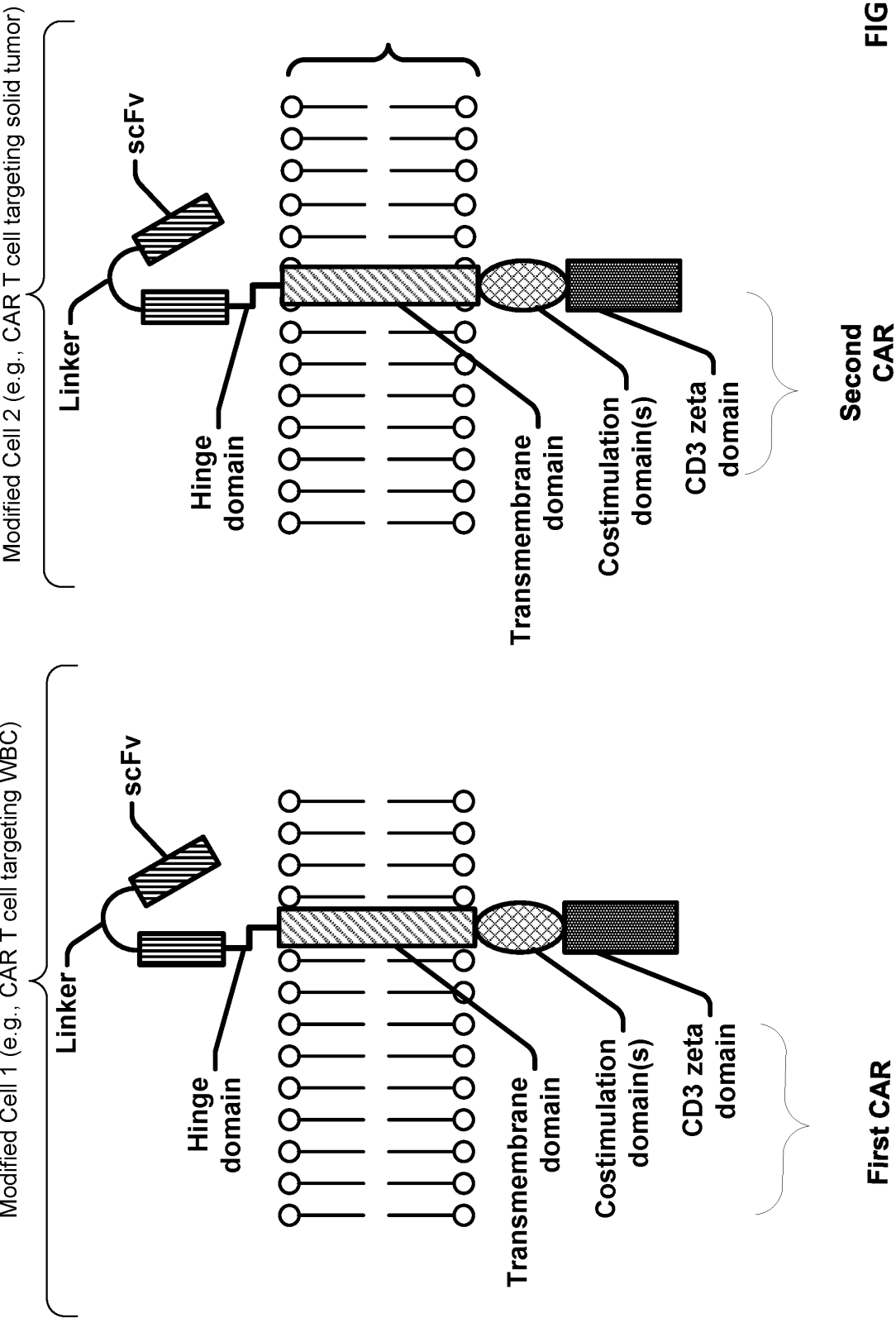


FIG. 2

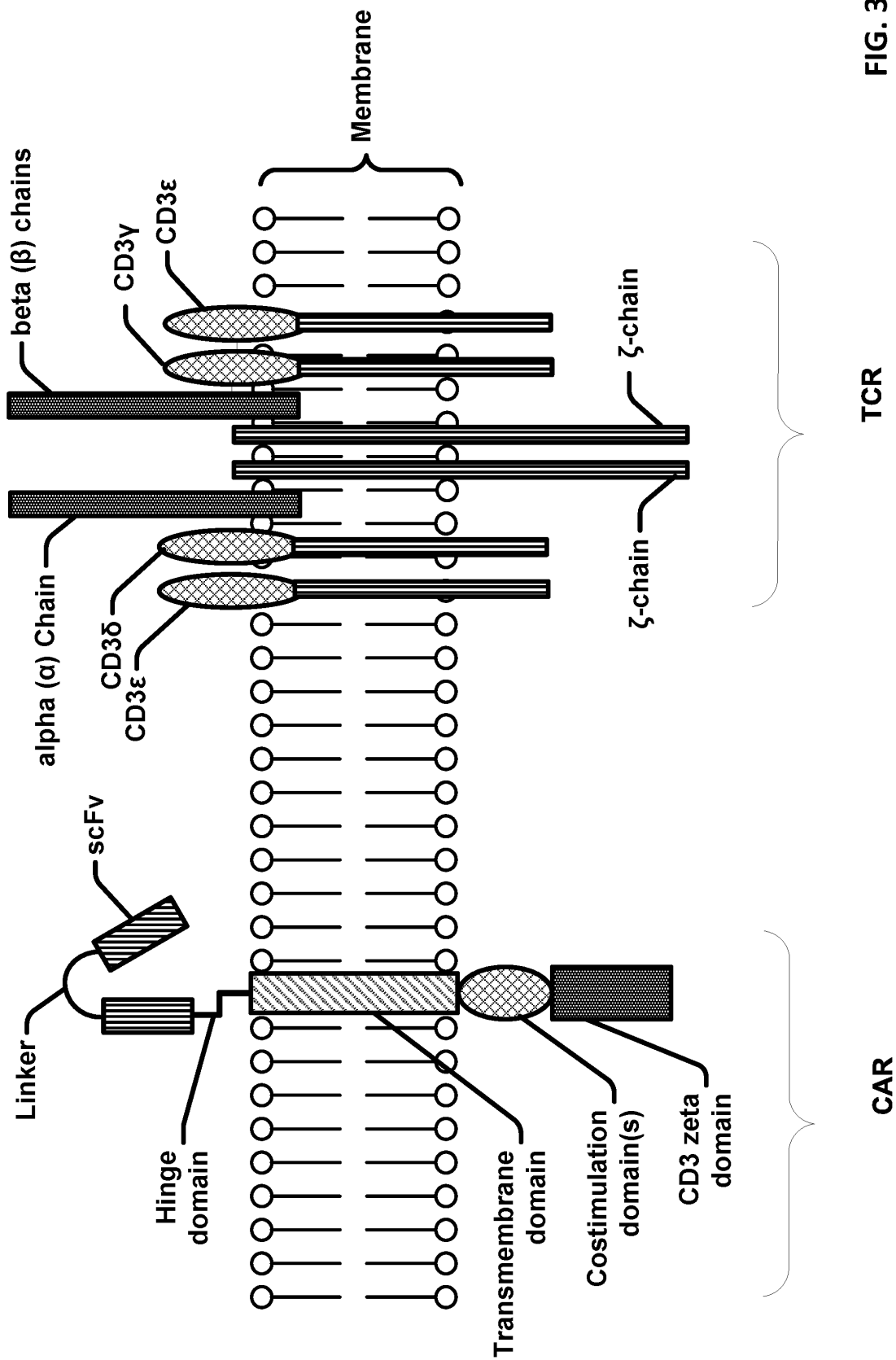


FIG. 3

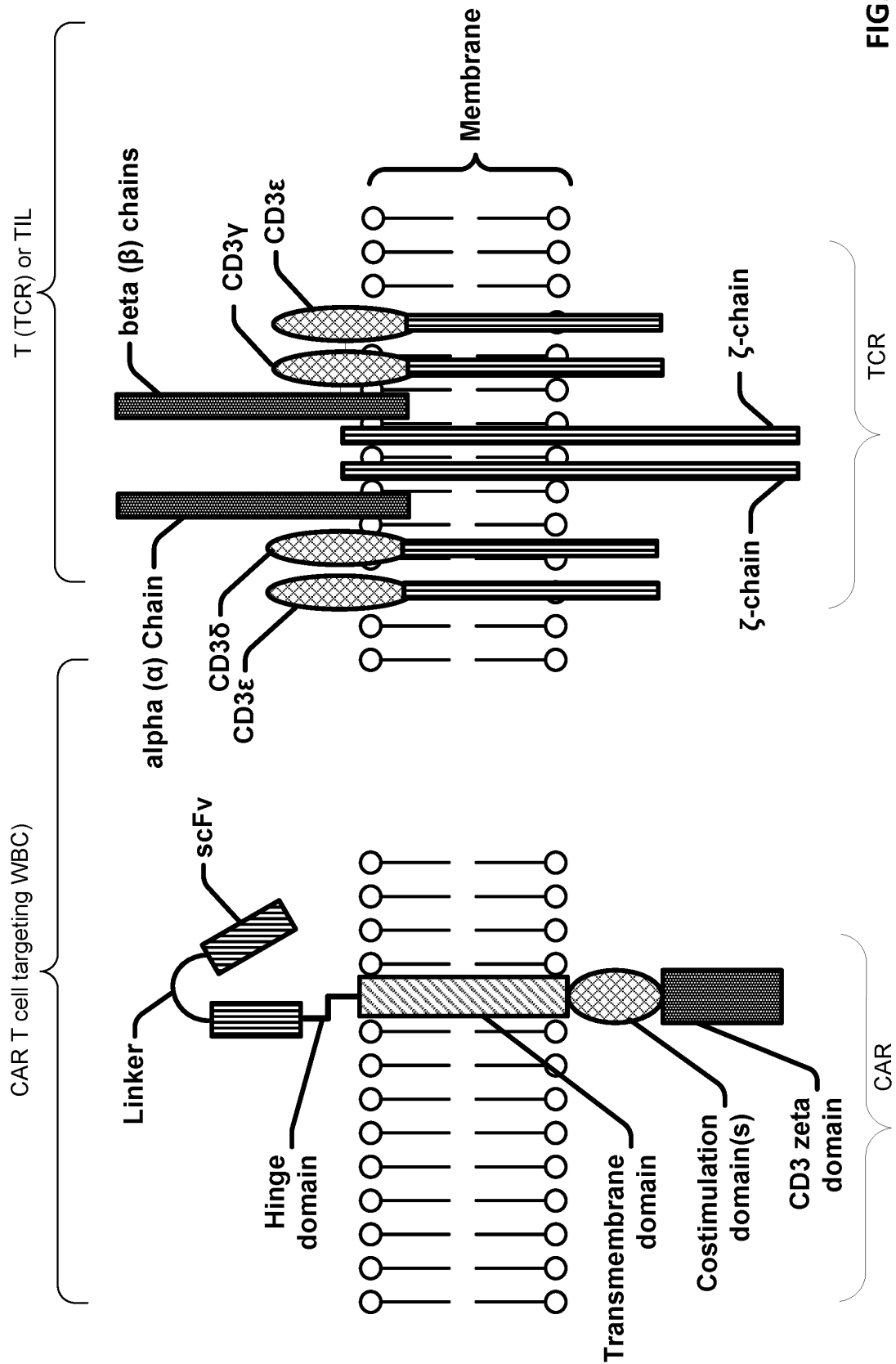


FIG. 4

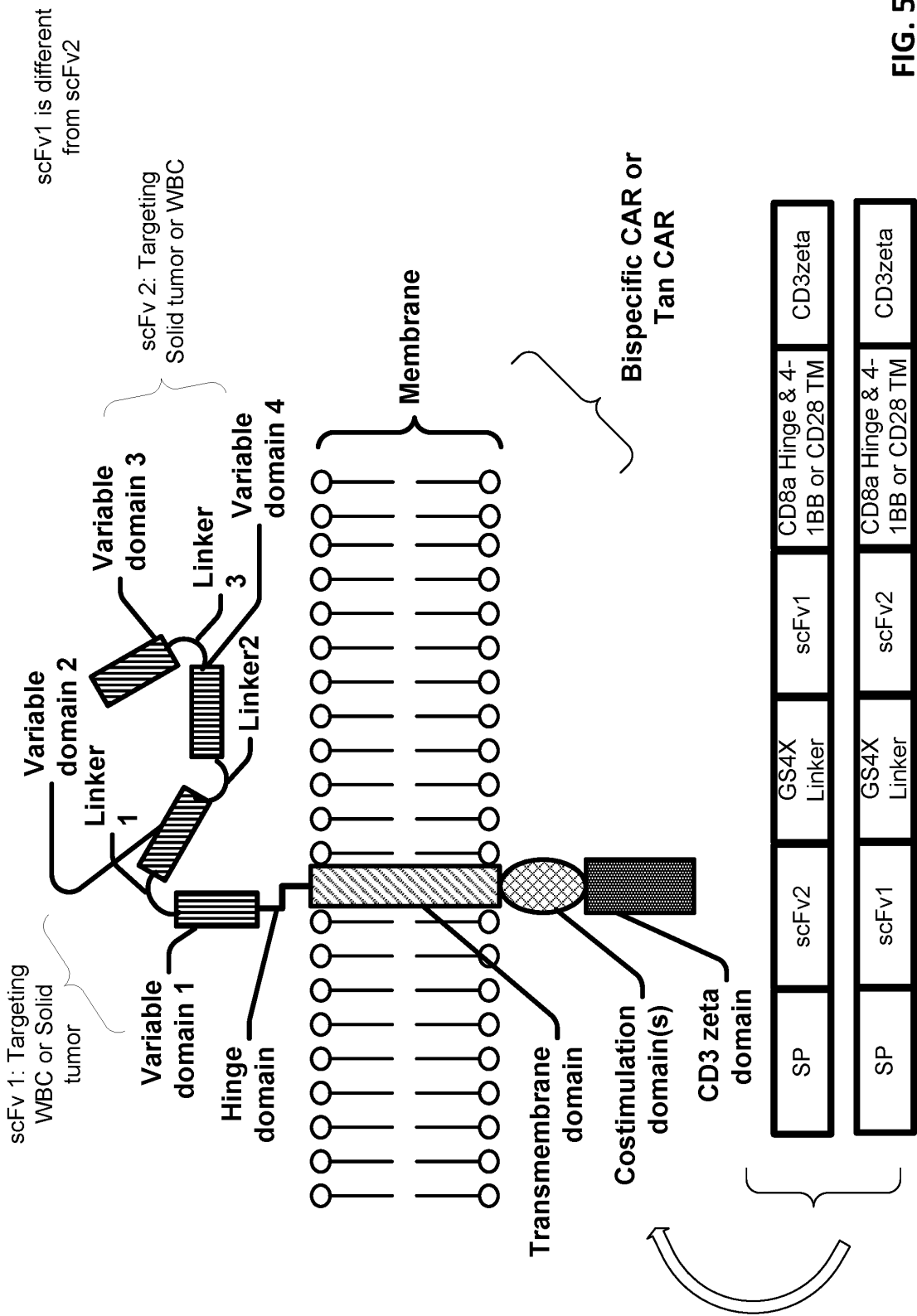
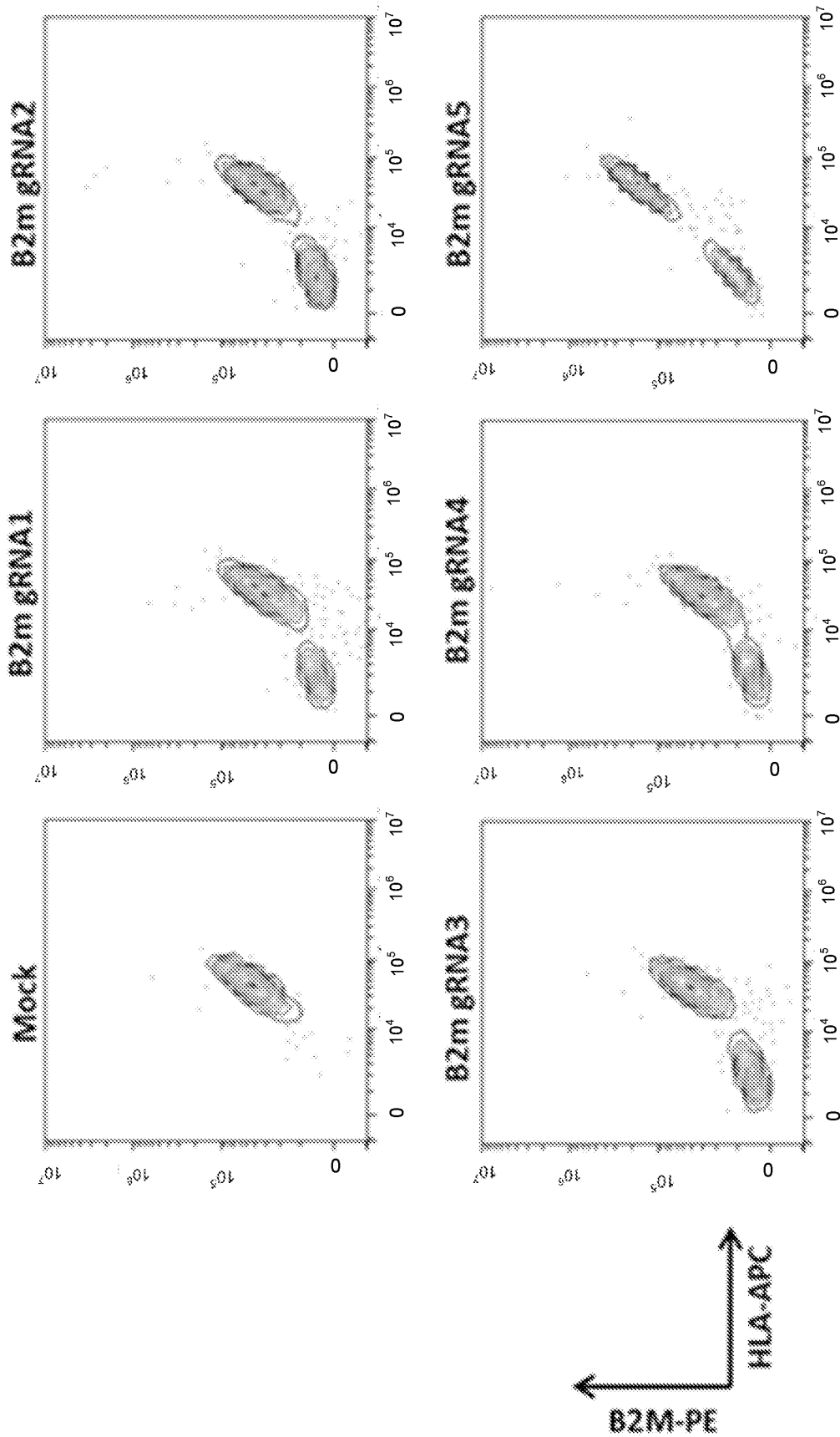
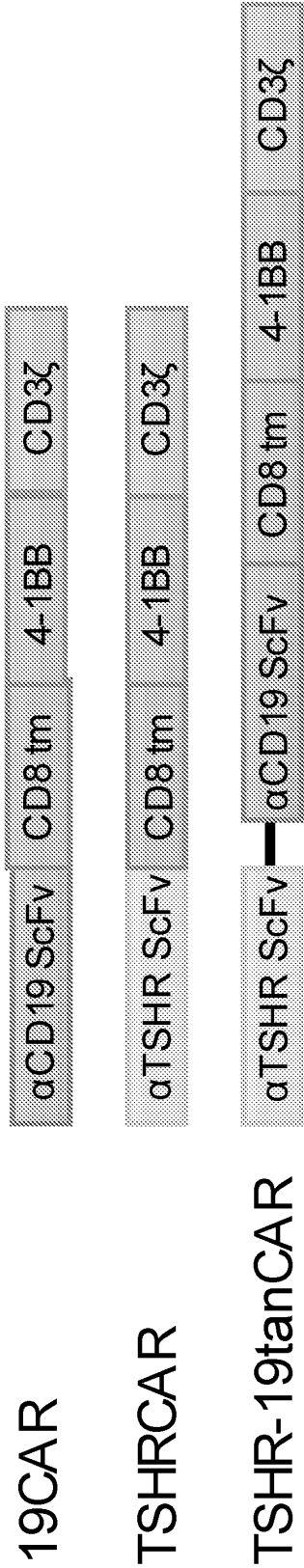


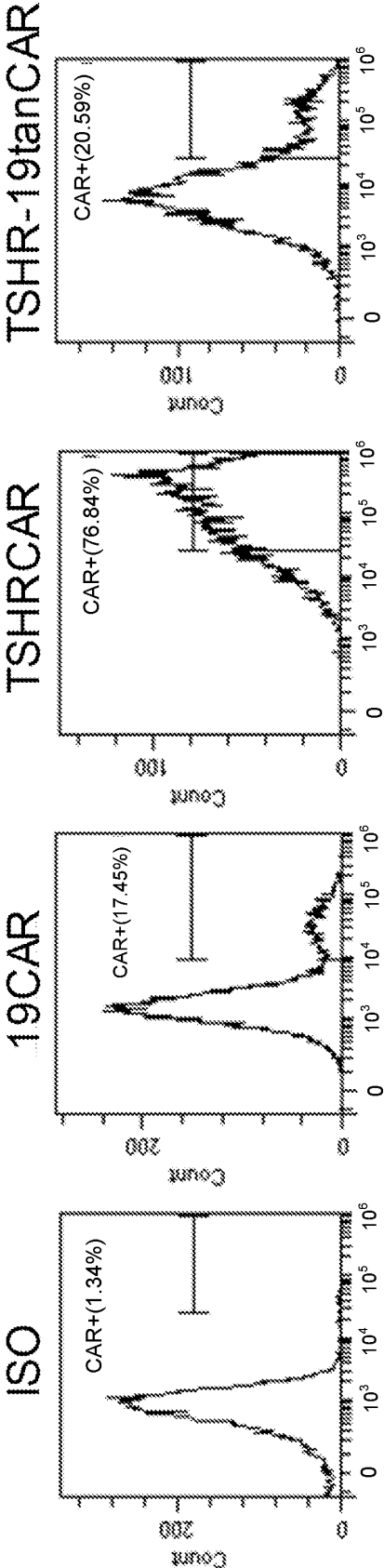
FIG. 5

FIG. 6



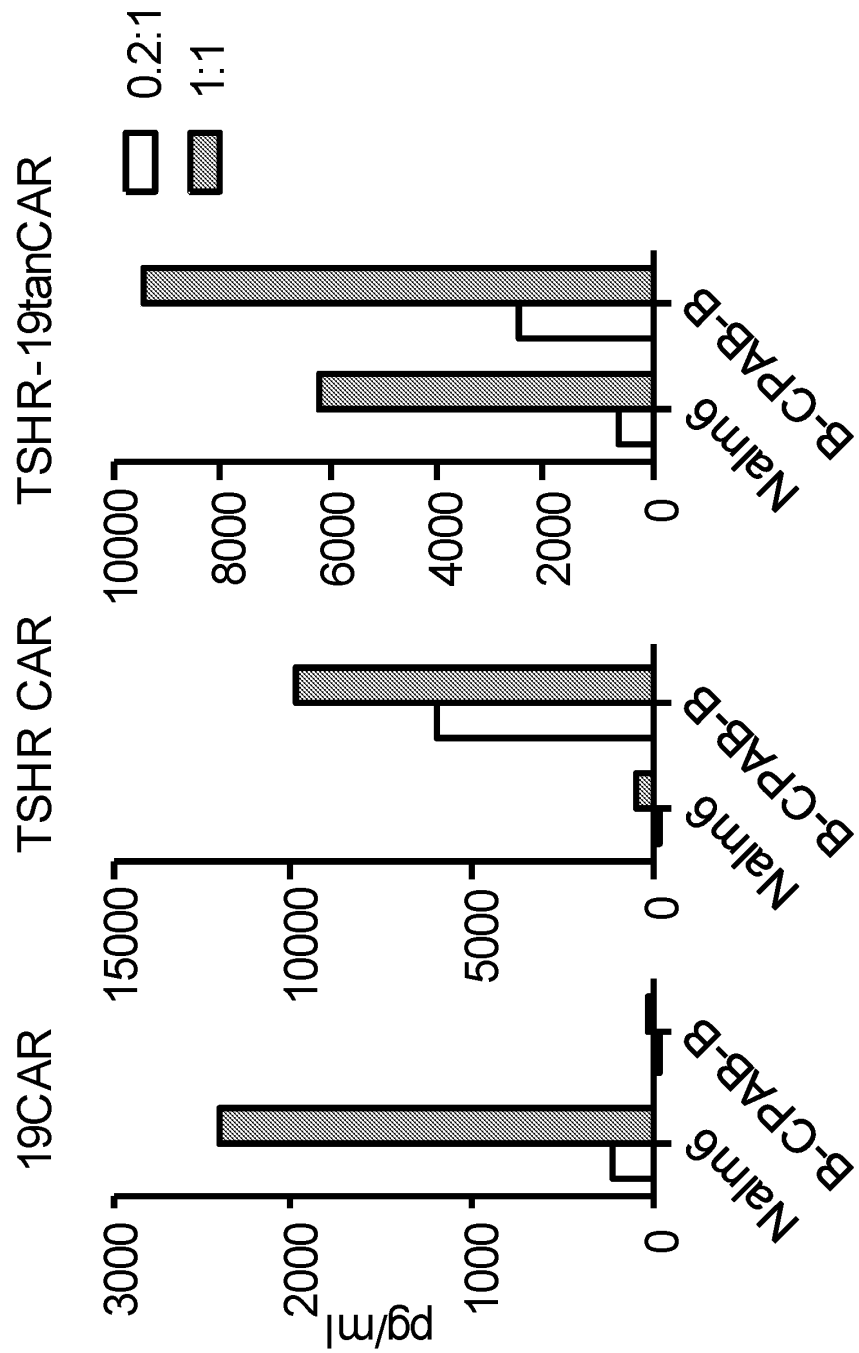


Construct example of Bispecific CAR (TSHR-19tan CAR):
CD8sp~Anti-TSHR-VL~3*GGGS linker~Anti-TSHR-VH~4*GGGS tanCAR linker~humanized-anti
CD19-VH~3*GGGS linker~humanized-anti CD19-VL



CAR-PE → FIG. 7

FIG. 8



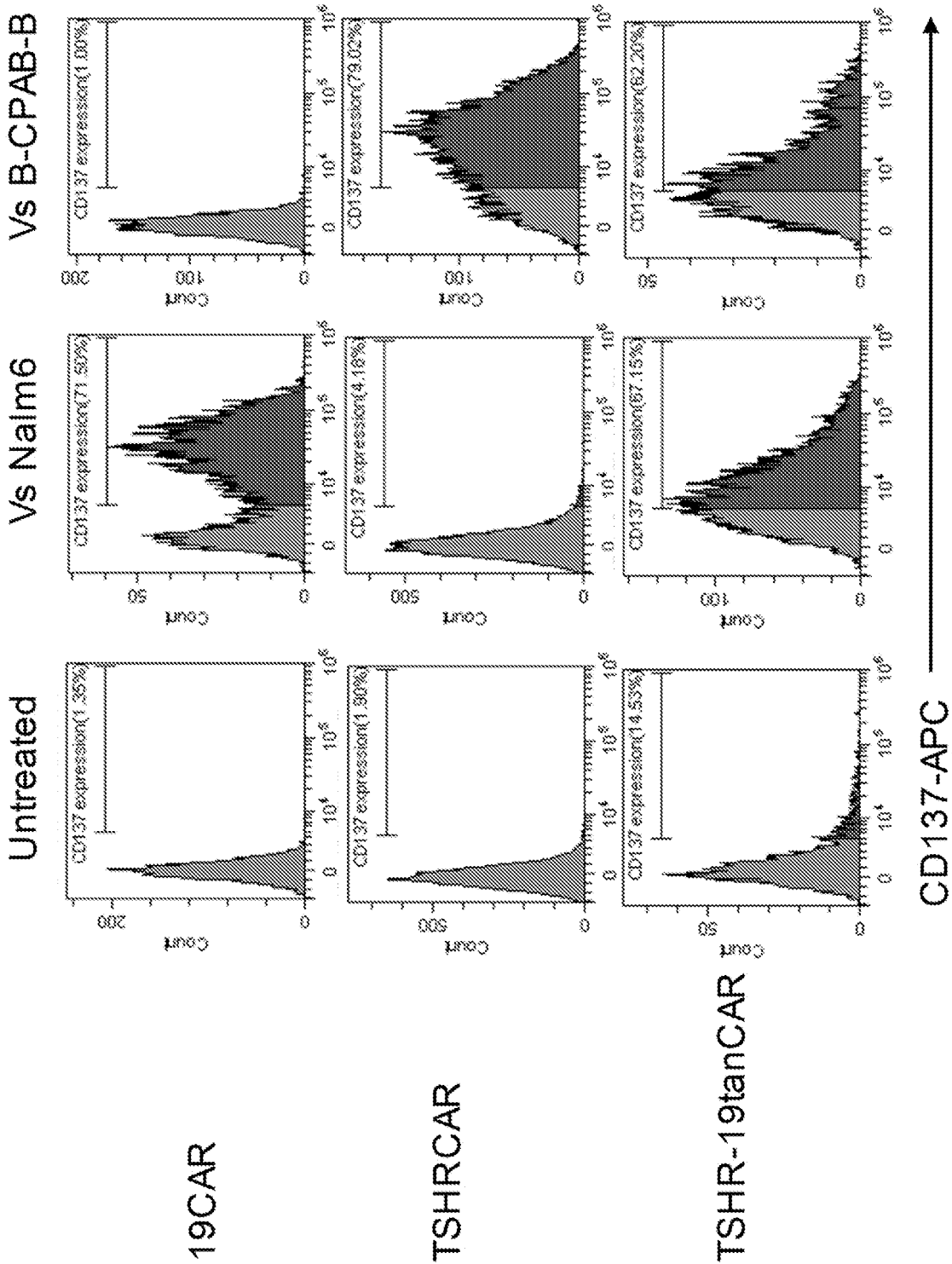
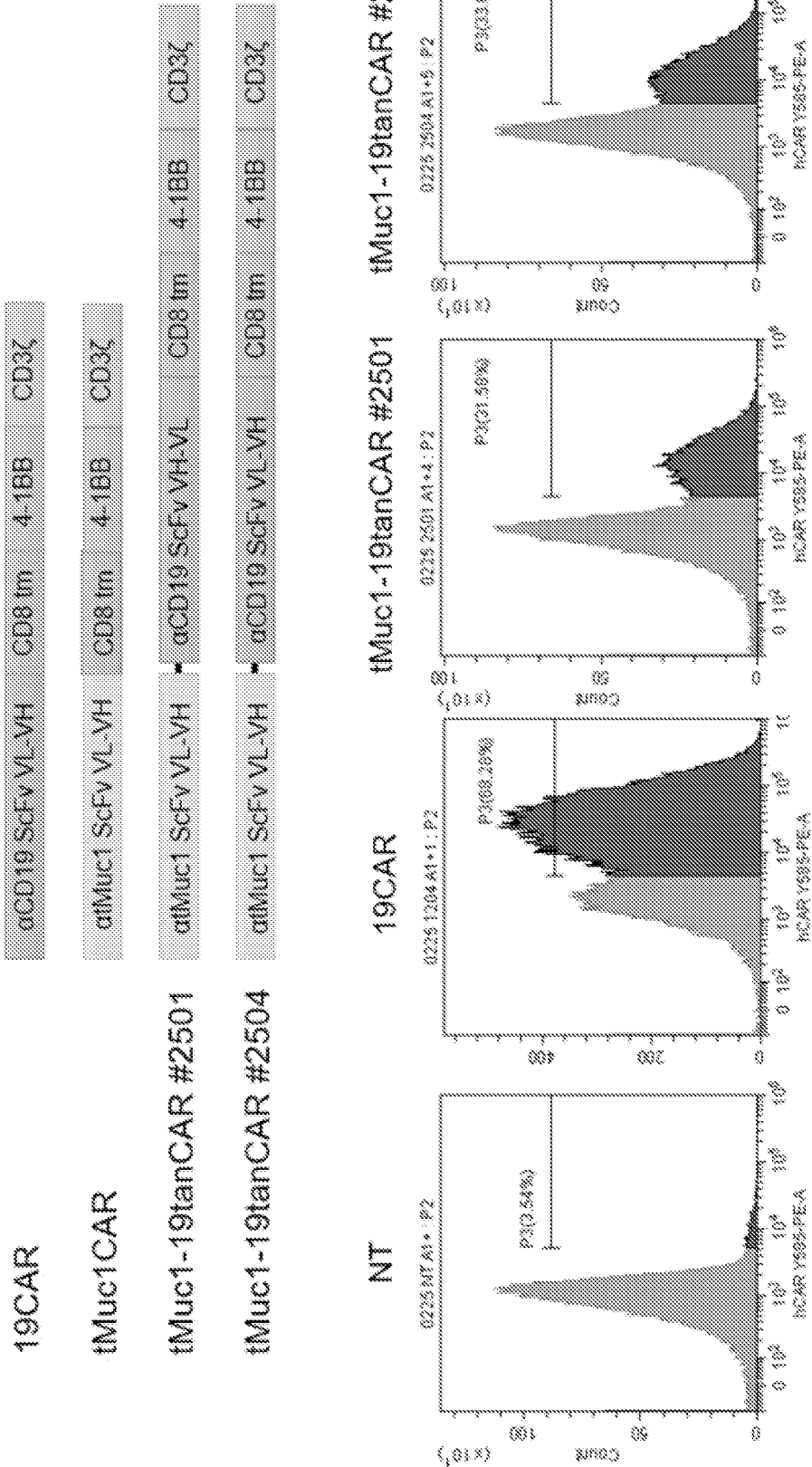


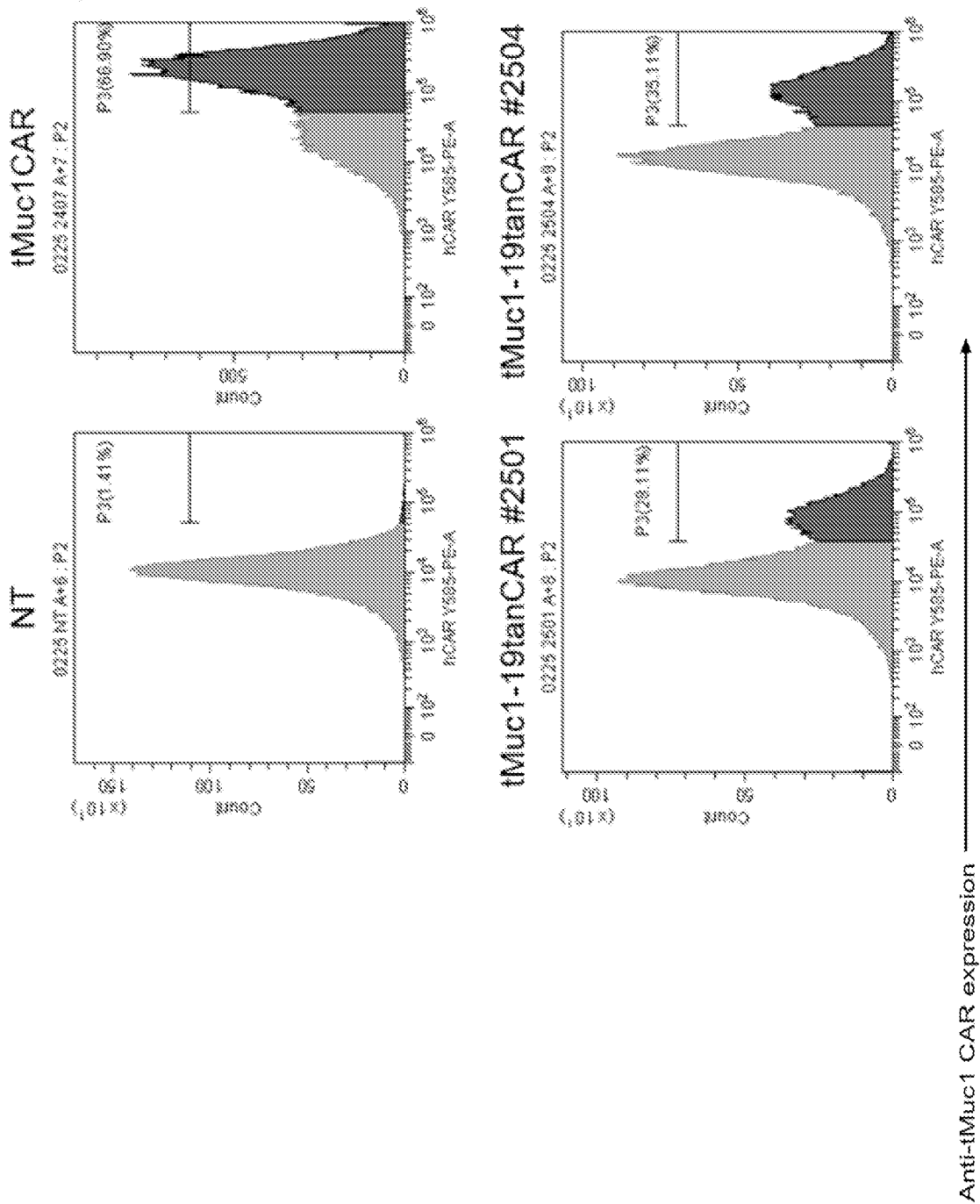
FIG. 9

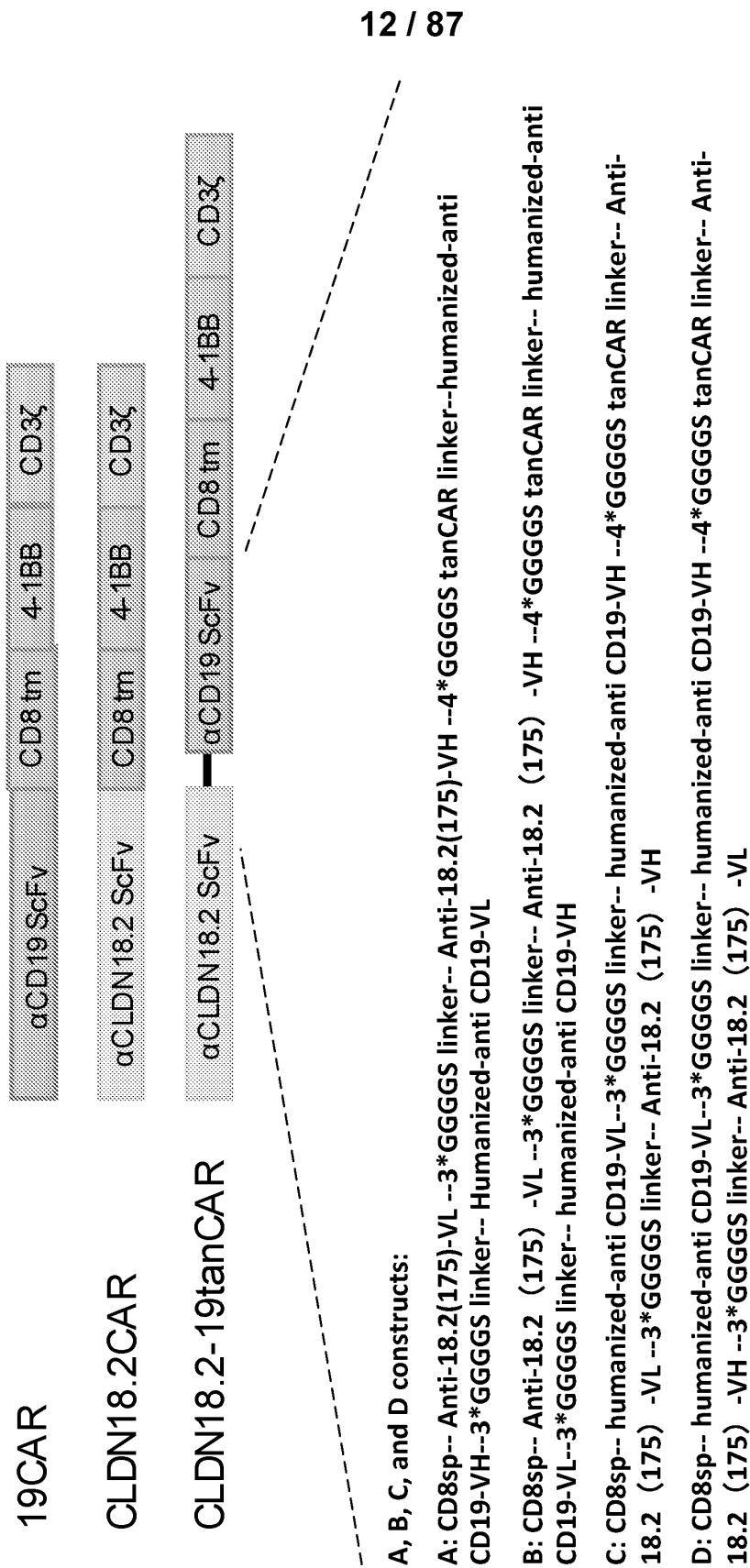


Anti-CD19 CAR expression

FIG. 10

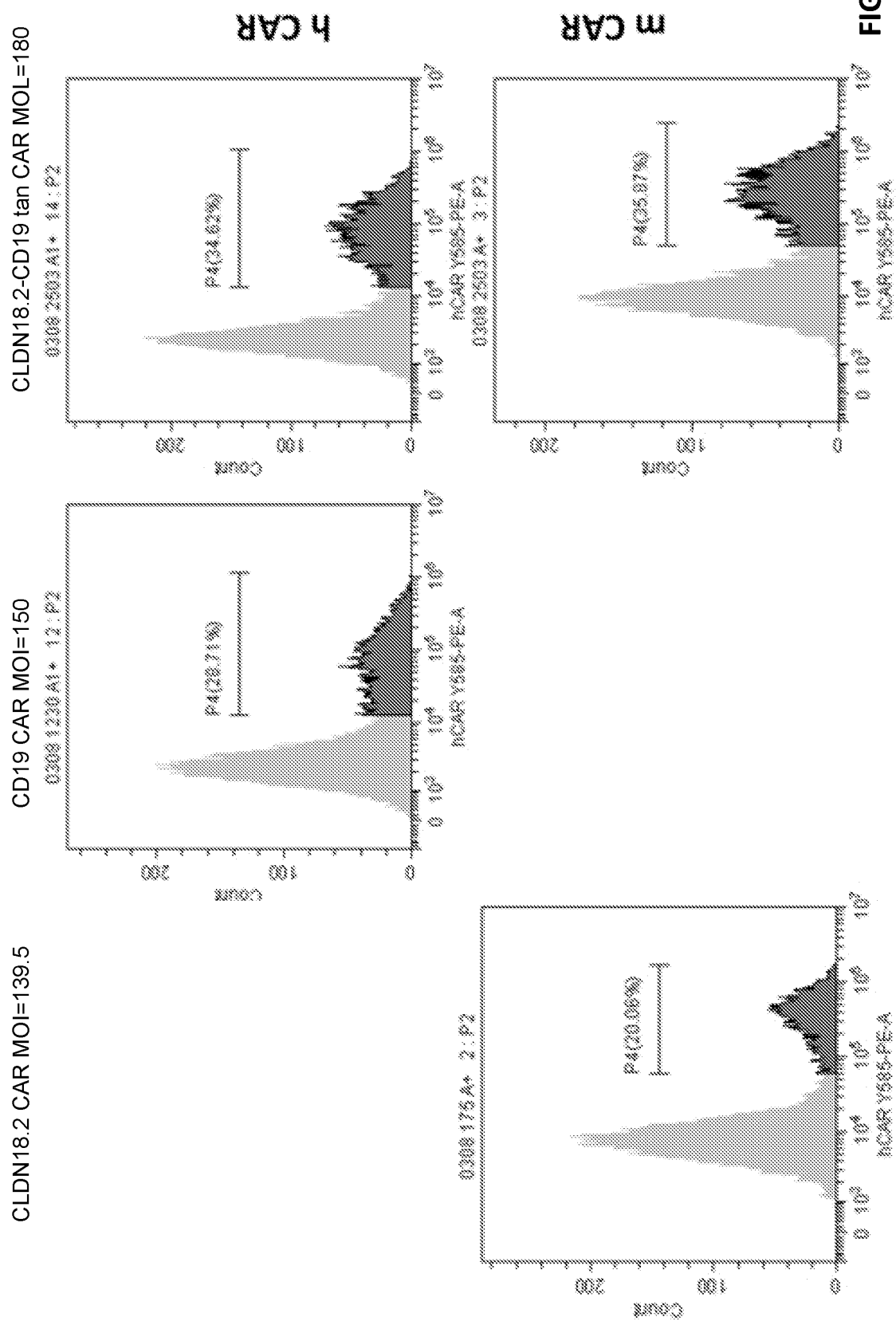
FIG. 11





175, 163, 125, and 43 refer to antibodies

FIG. 12



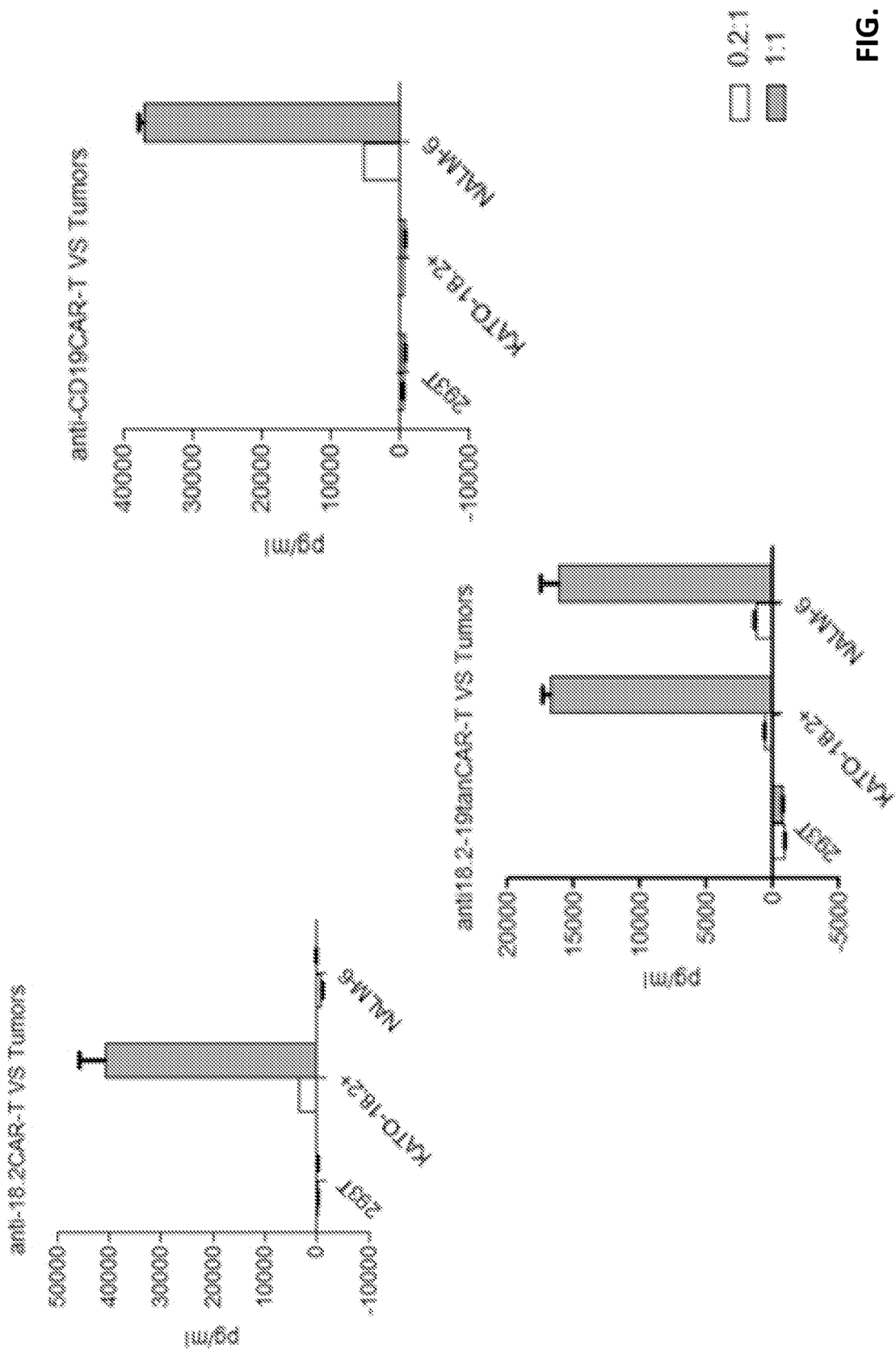


FIG. 14

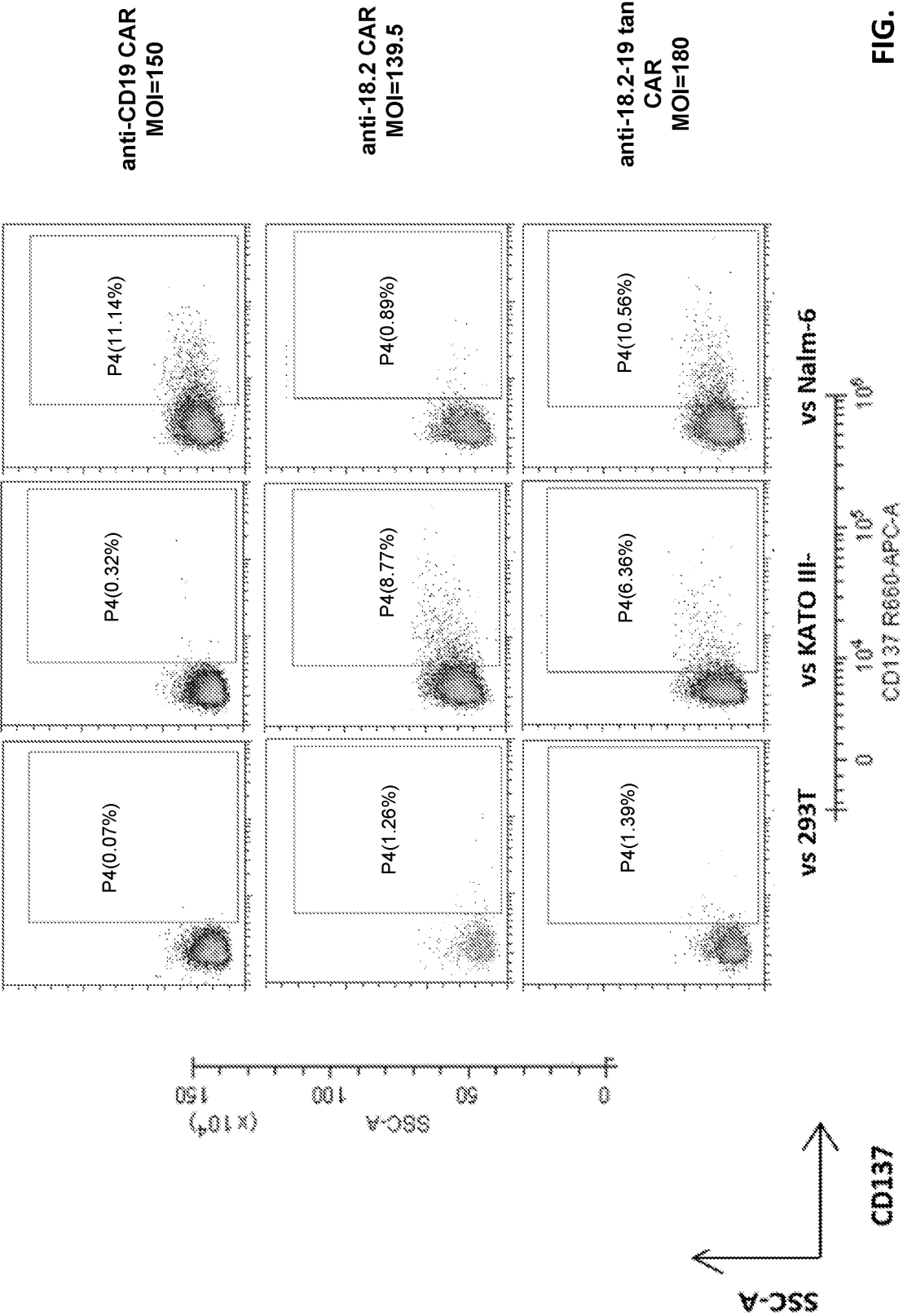


FIG. 15

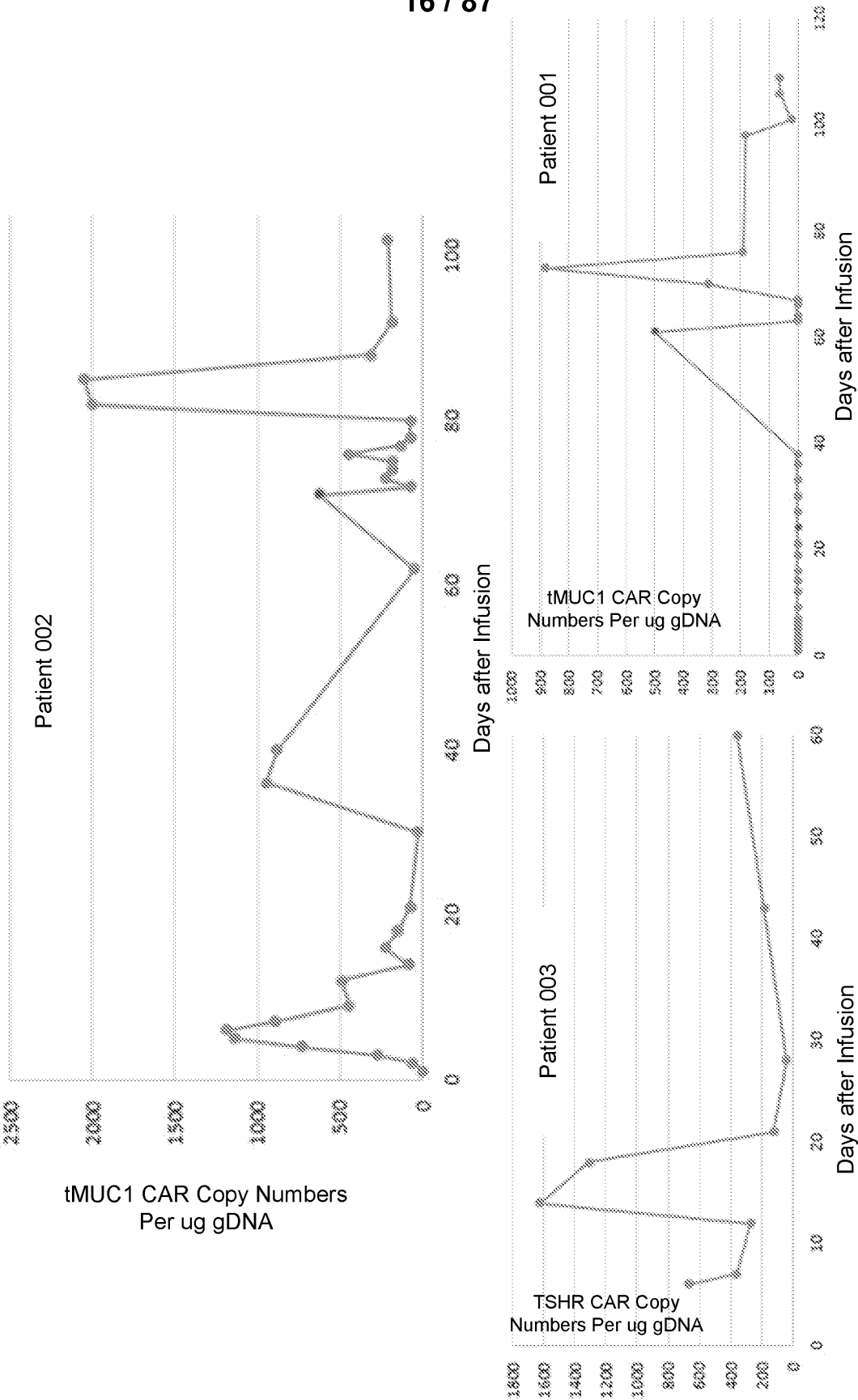
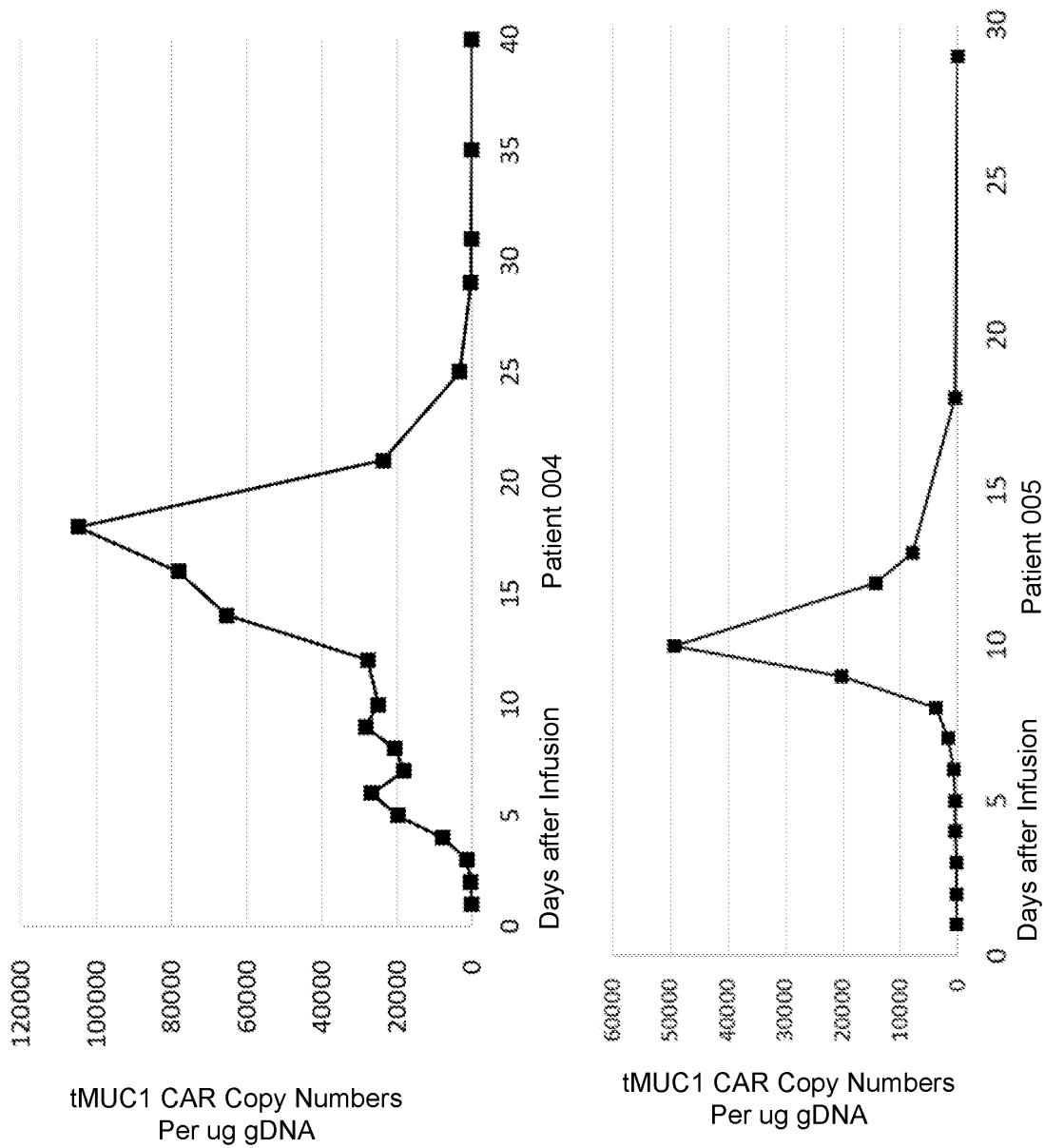


FIG. 16

FIG. 17



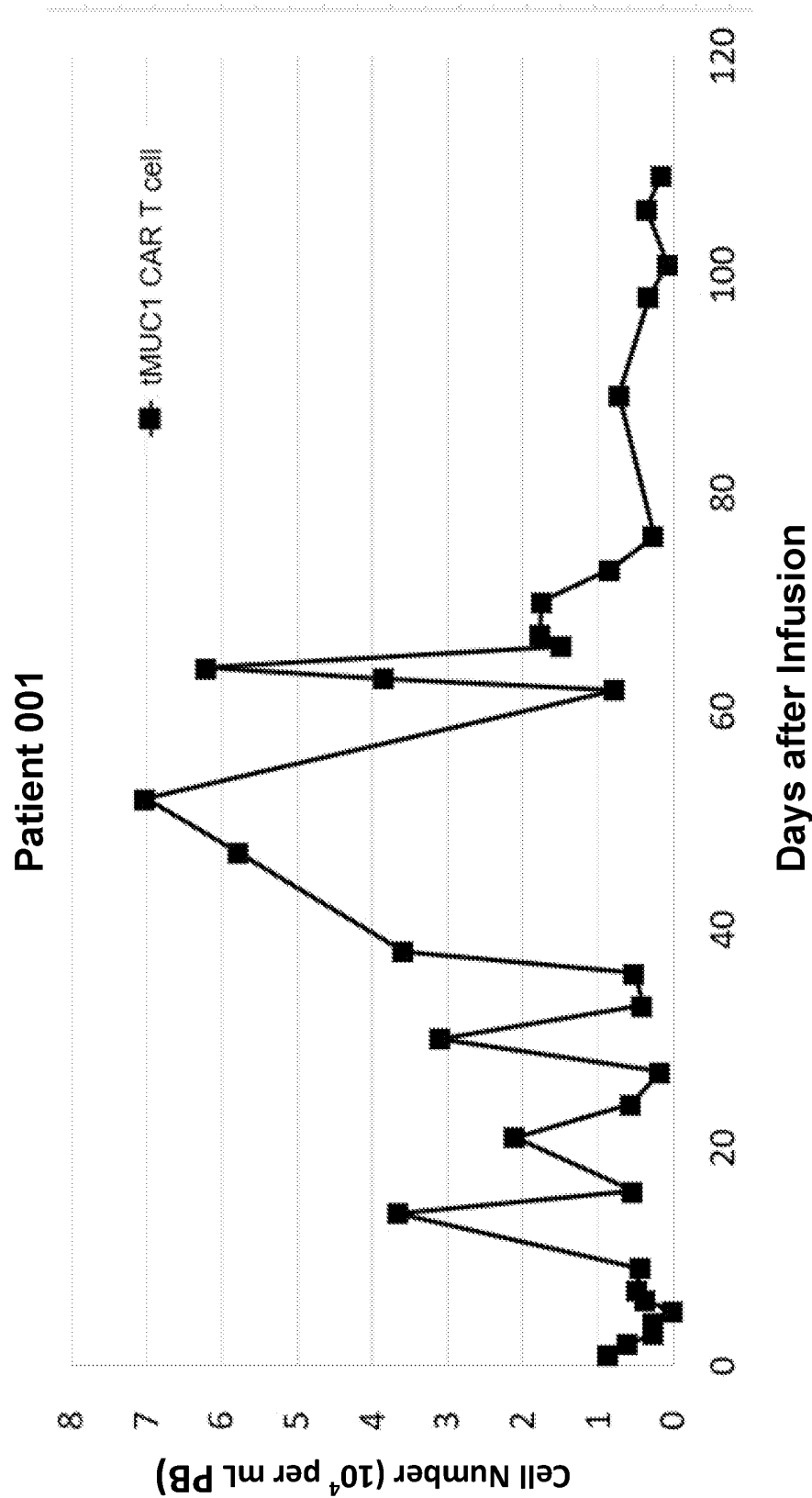


FIG. 18

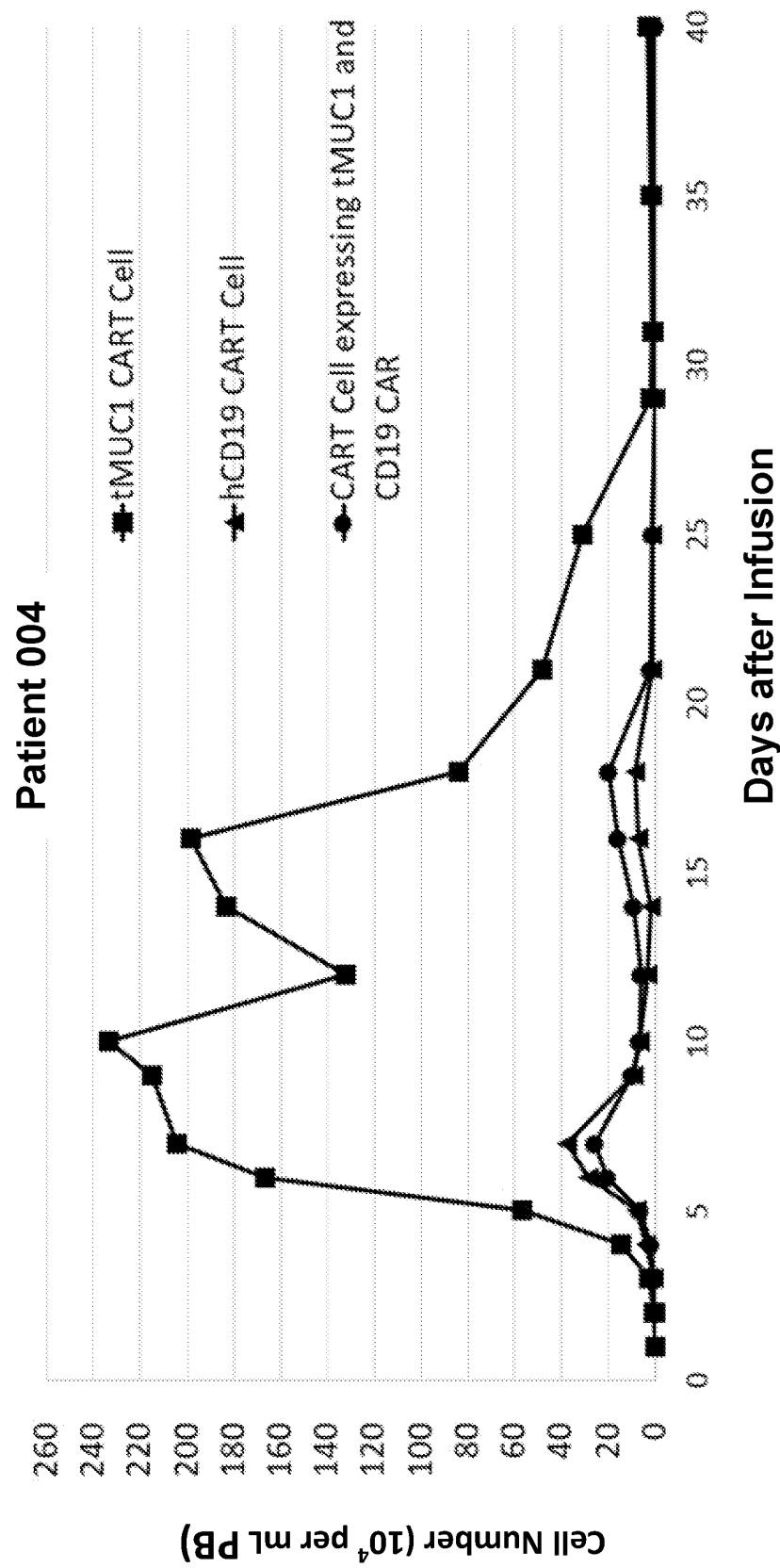


FIG. 19

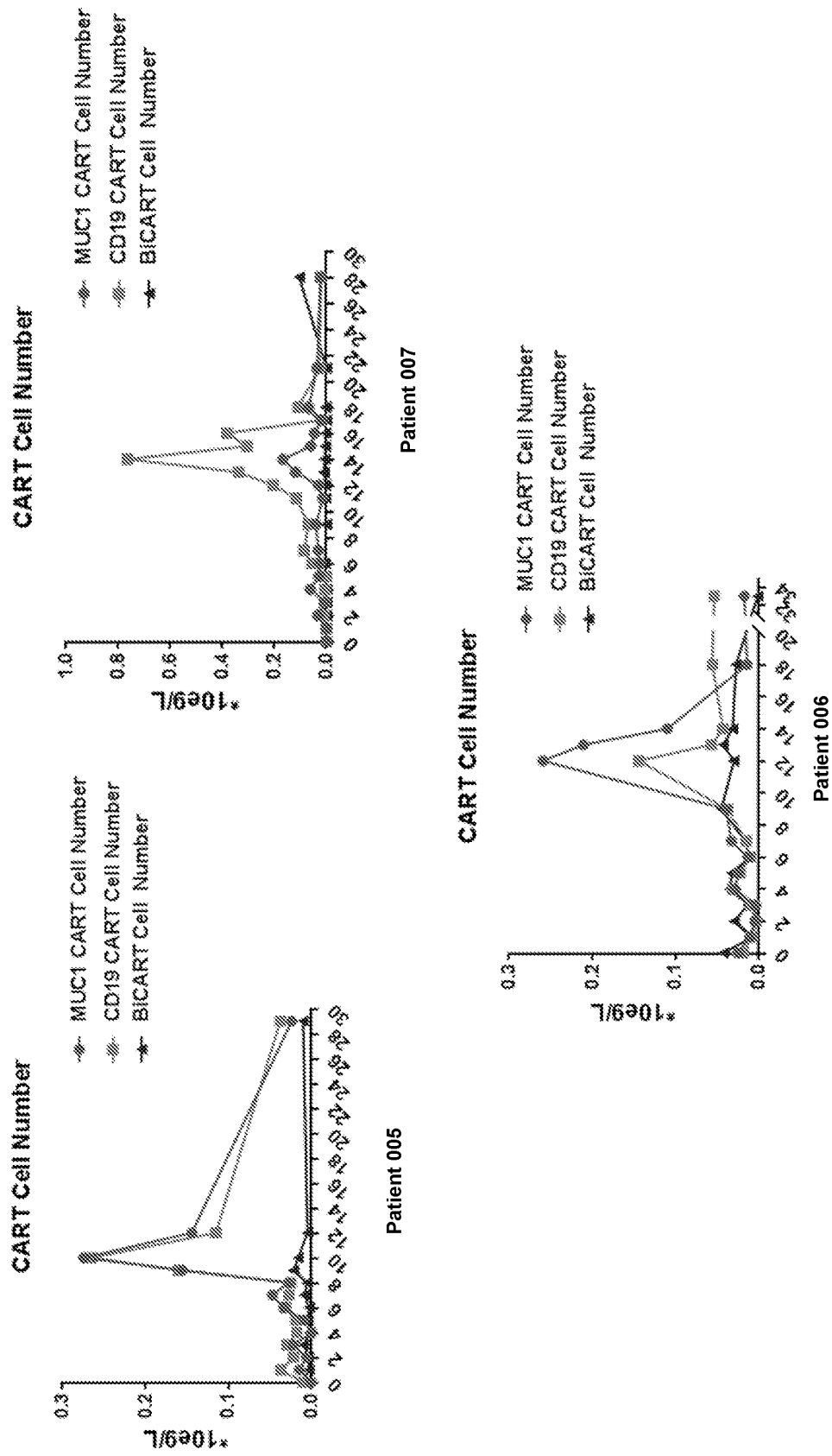


FIG. 20

BiCAR T cell: CAR T cells expressing both tMUC1 CAR and CD19 CAR

FIG. 21

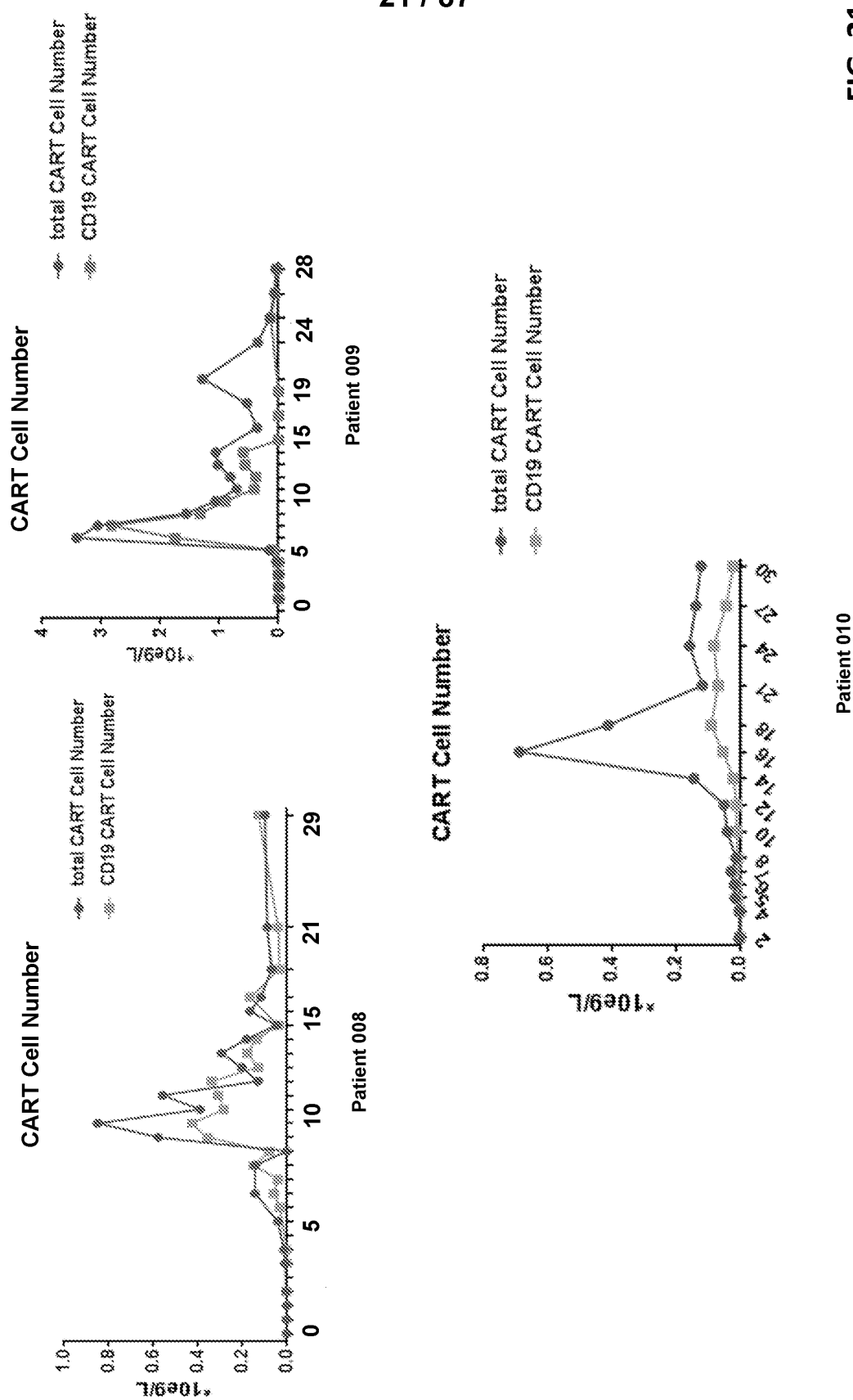
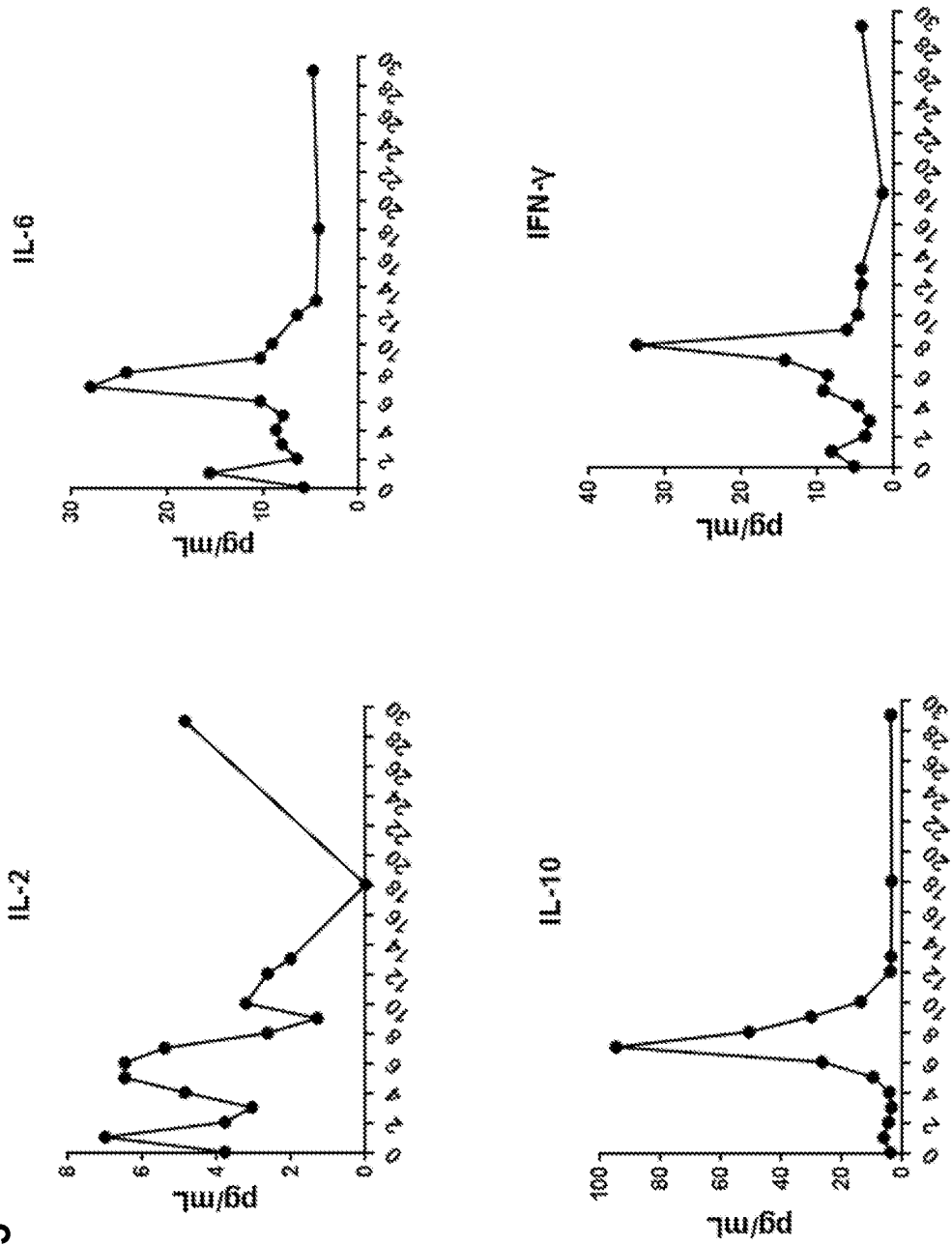


FIG. 22

Patient 005



Patient 006

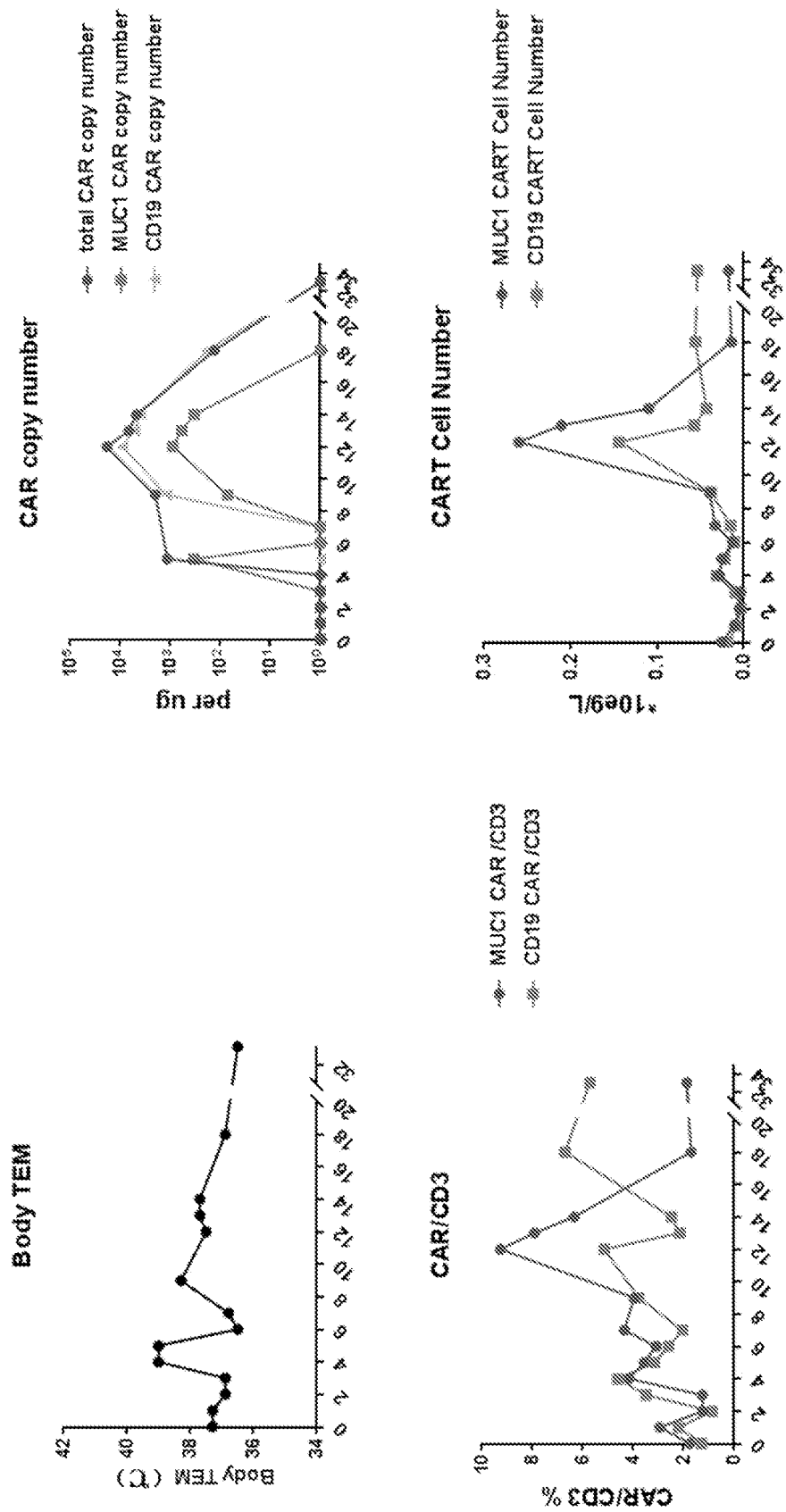


FIG. 23

FIG. 24

Patient 006

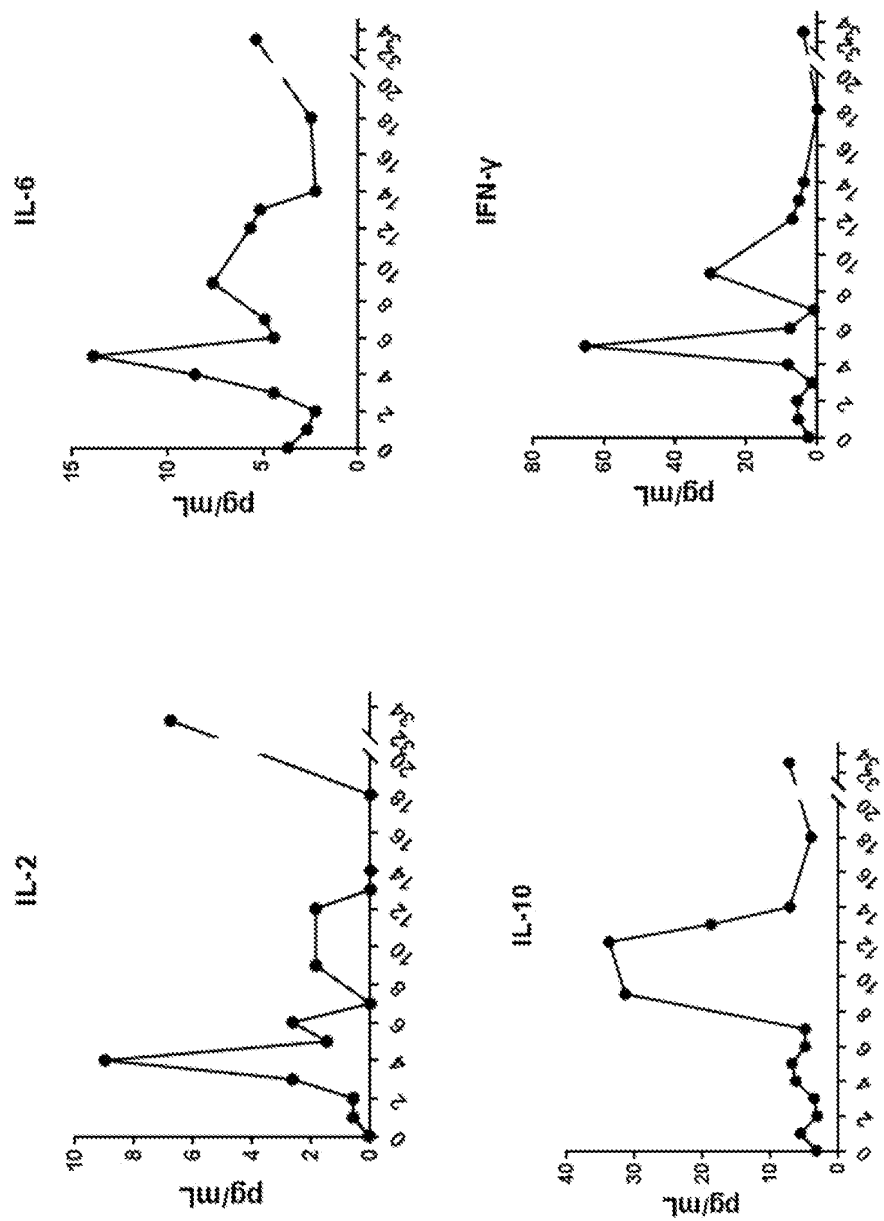
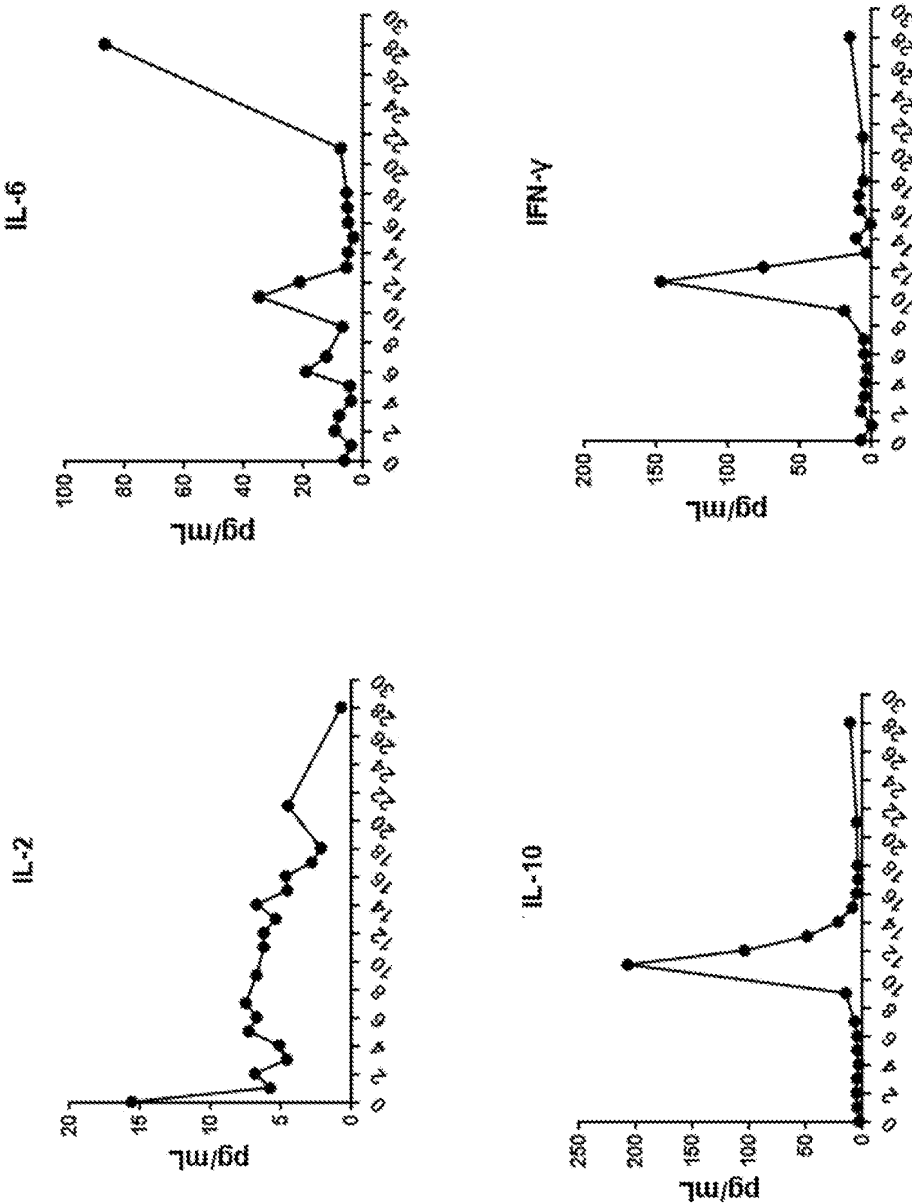


FIG. 25

Patient 007



Patient 007

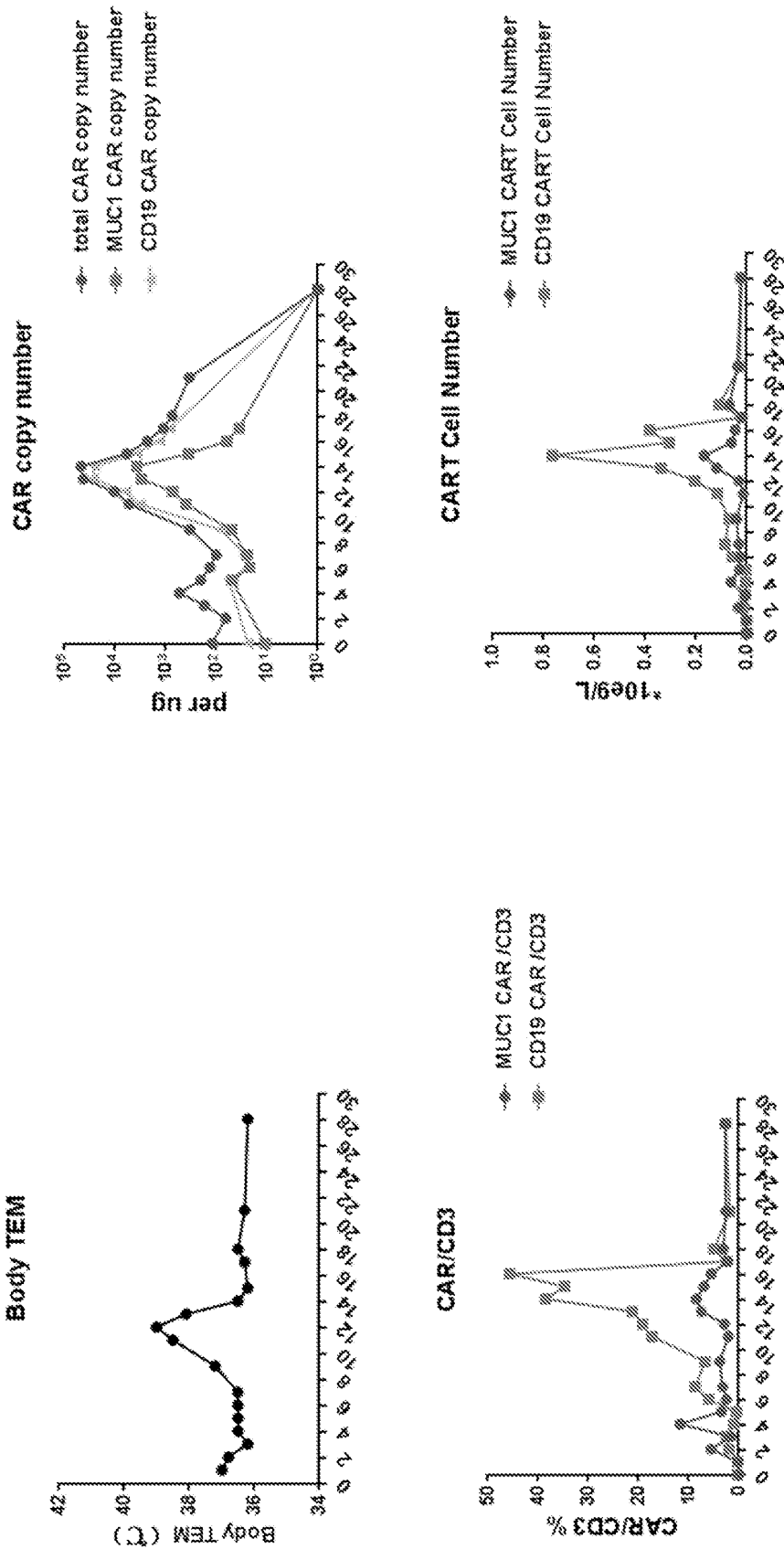


FIG. 26

Patient 008

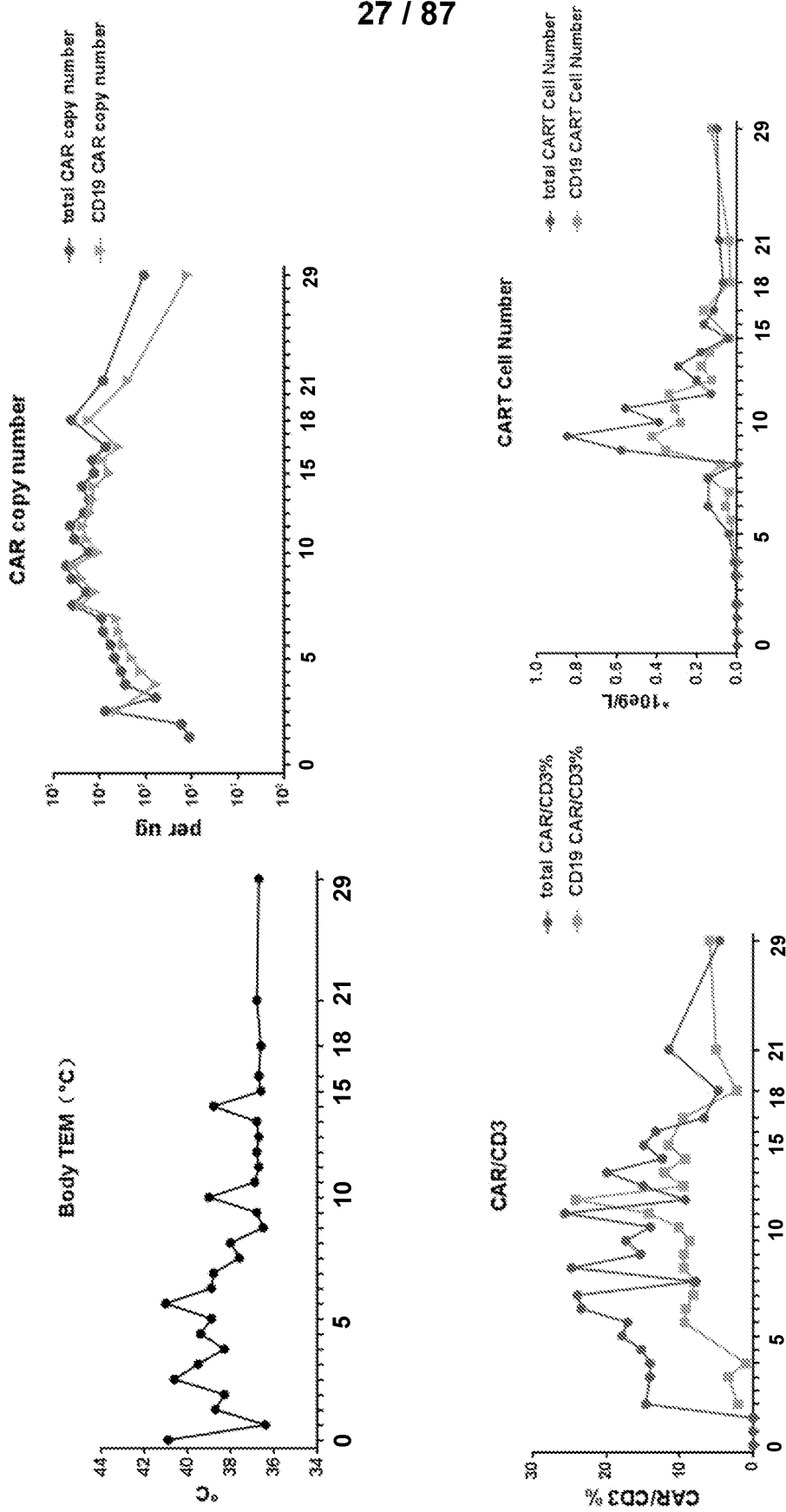


FIG. 27

Patient 008

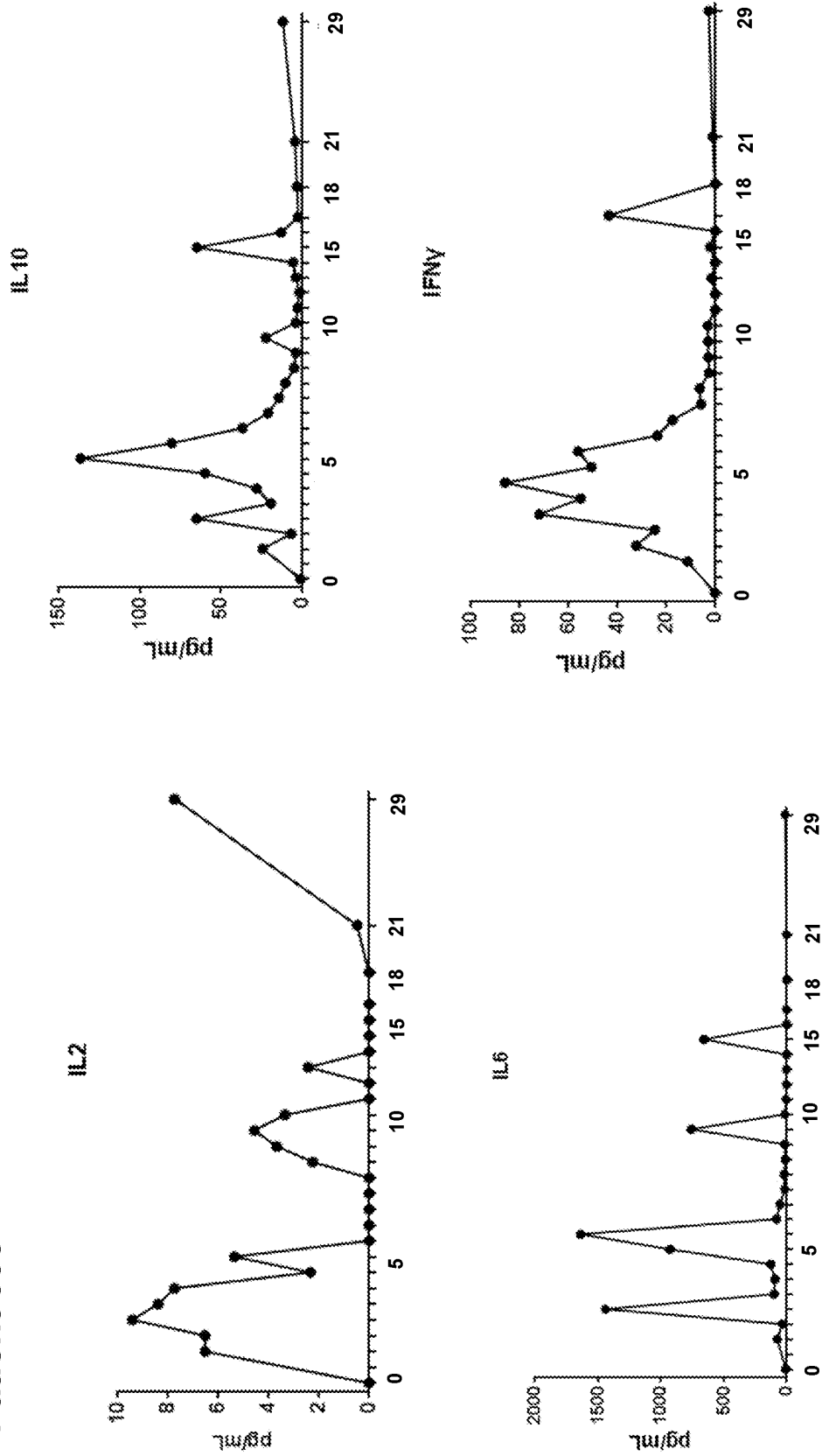
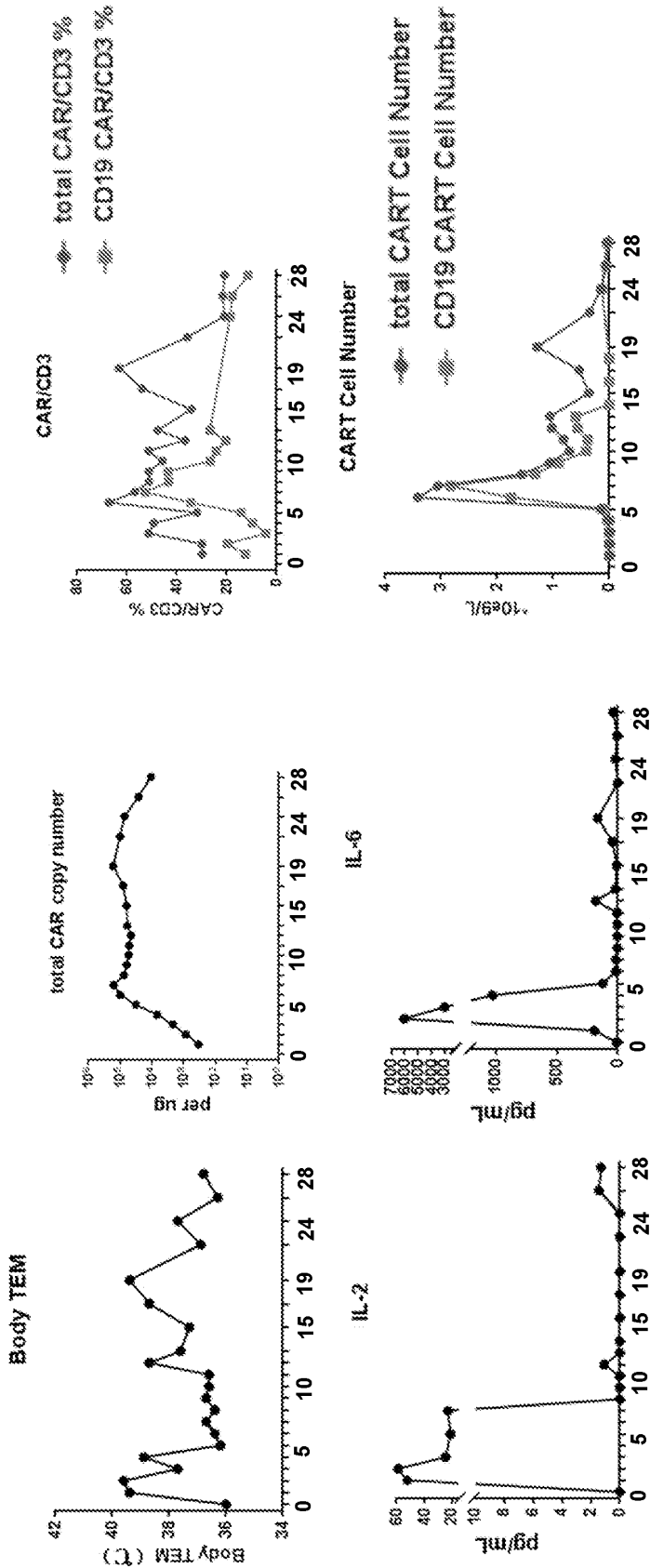


FIG. 28

Patient 009



Days post infusion:

FIG. 29

Patient 009

CAR Relative Quantitative Value

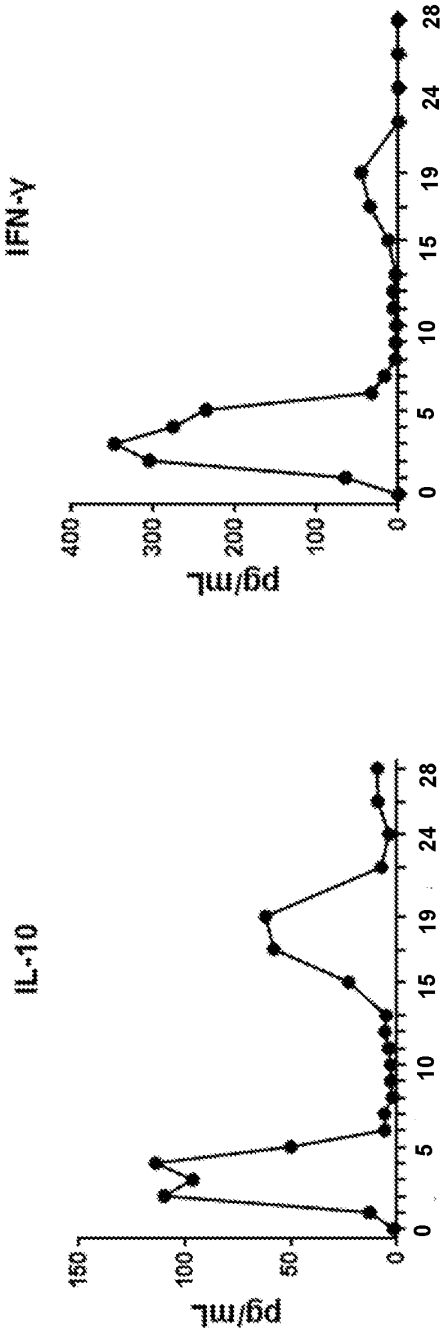
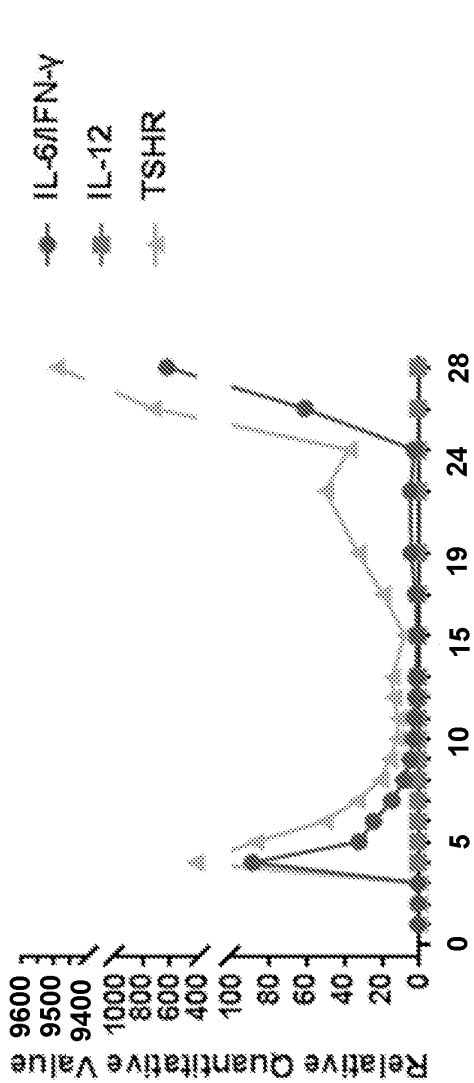


FIG. 30

Patient 010

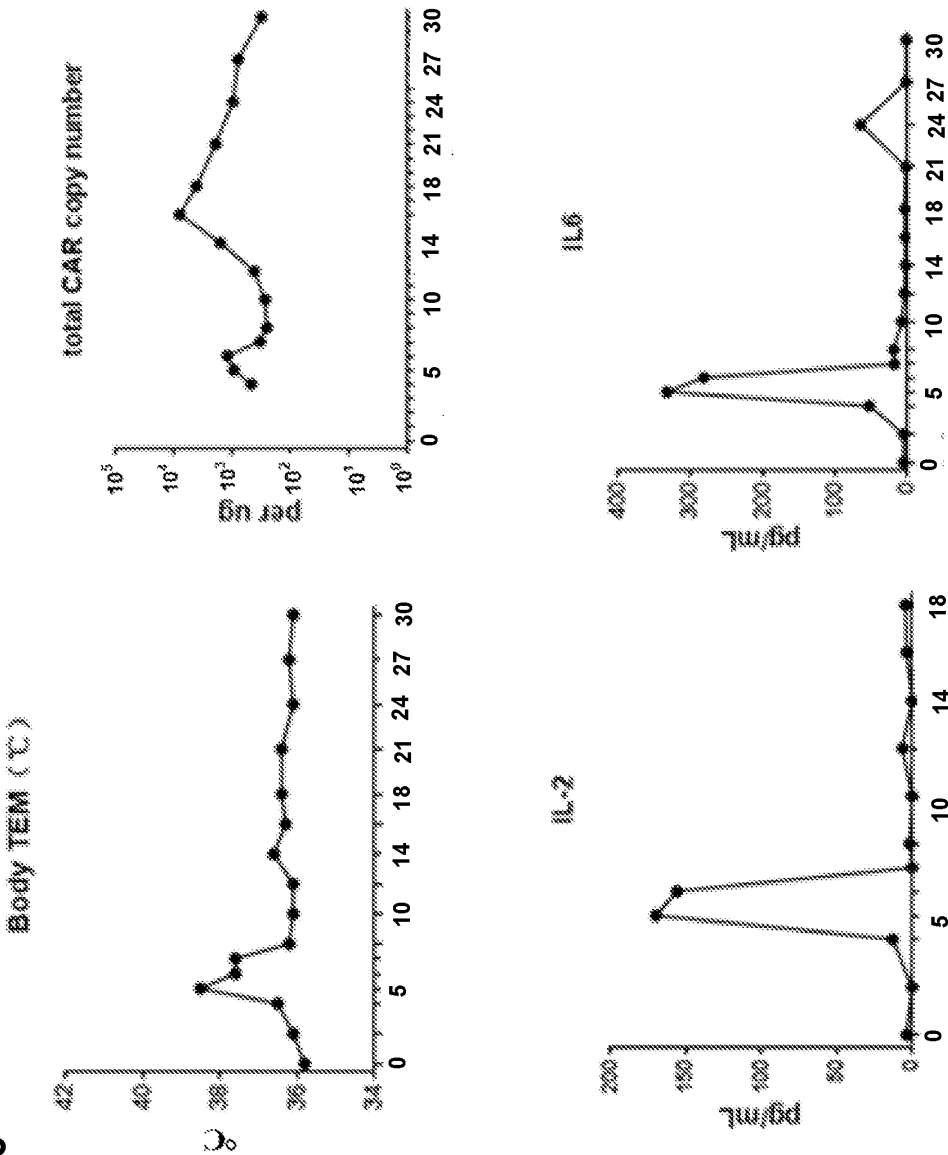


FIG. 31

Patient 010

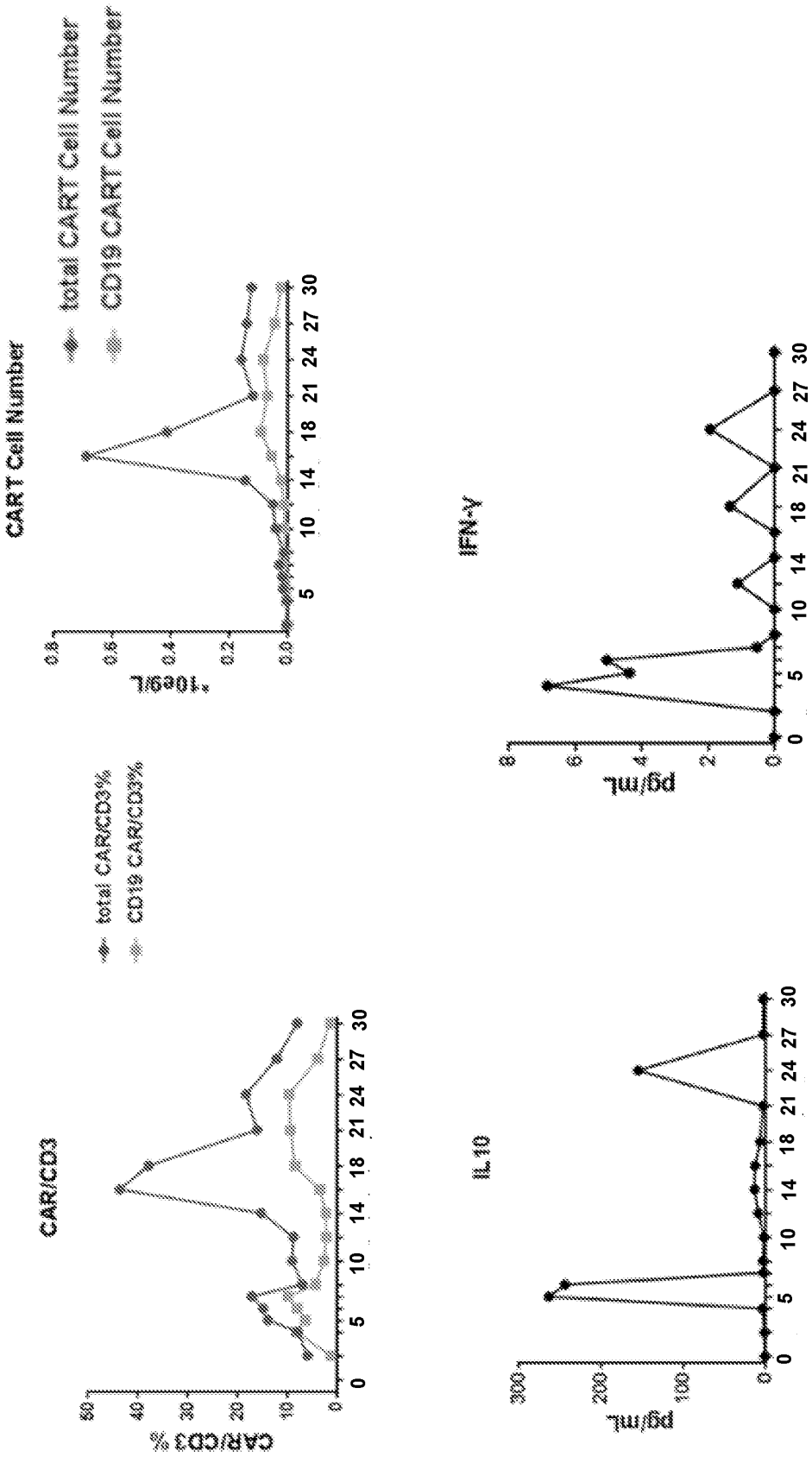
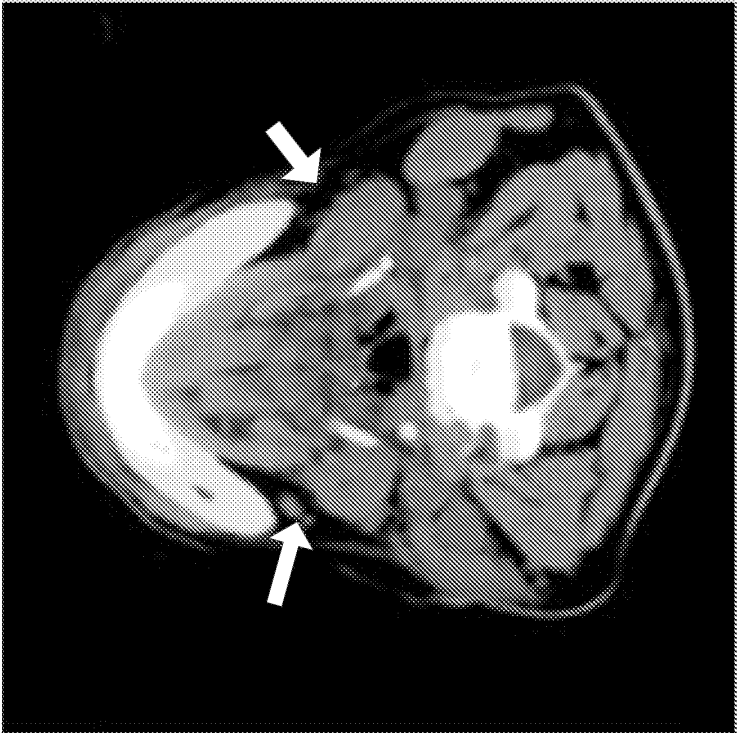


FIG. 32

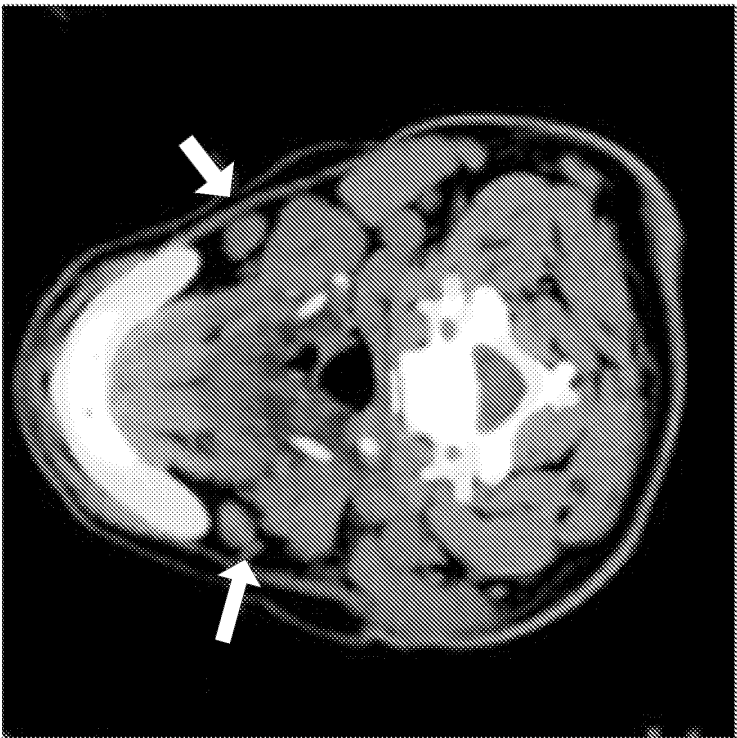
FIG. 33

Patient 008

28 days after infusion



Before



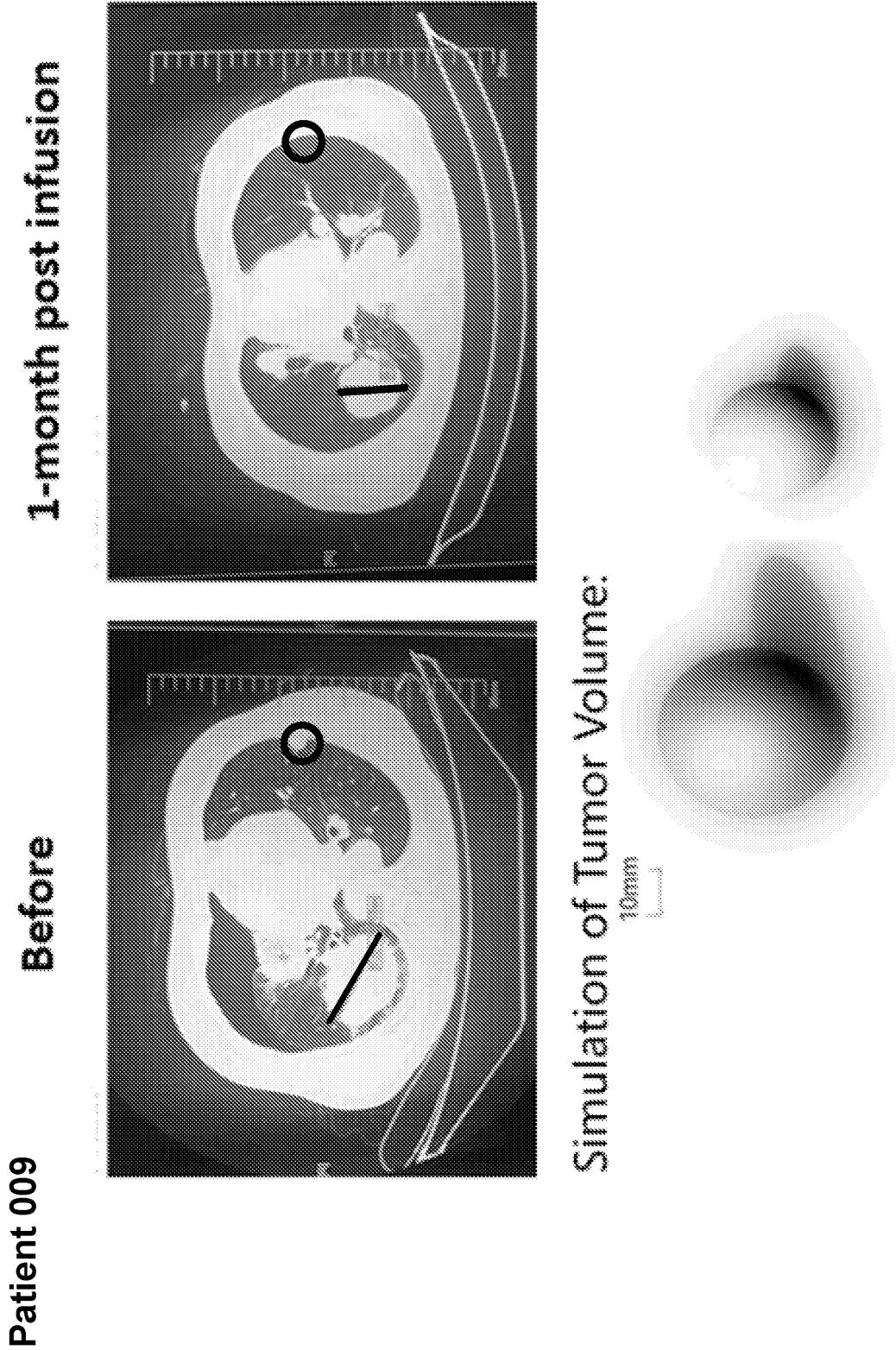
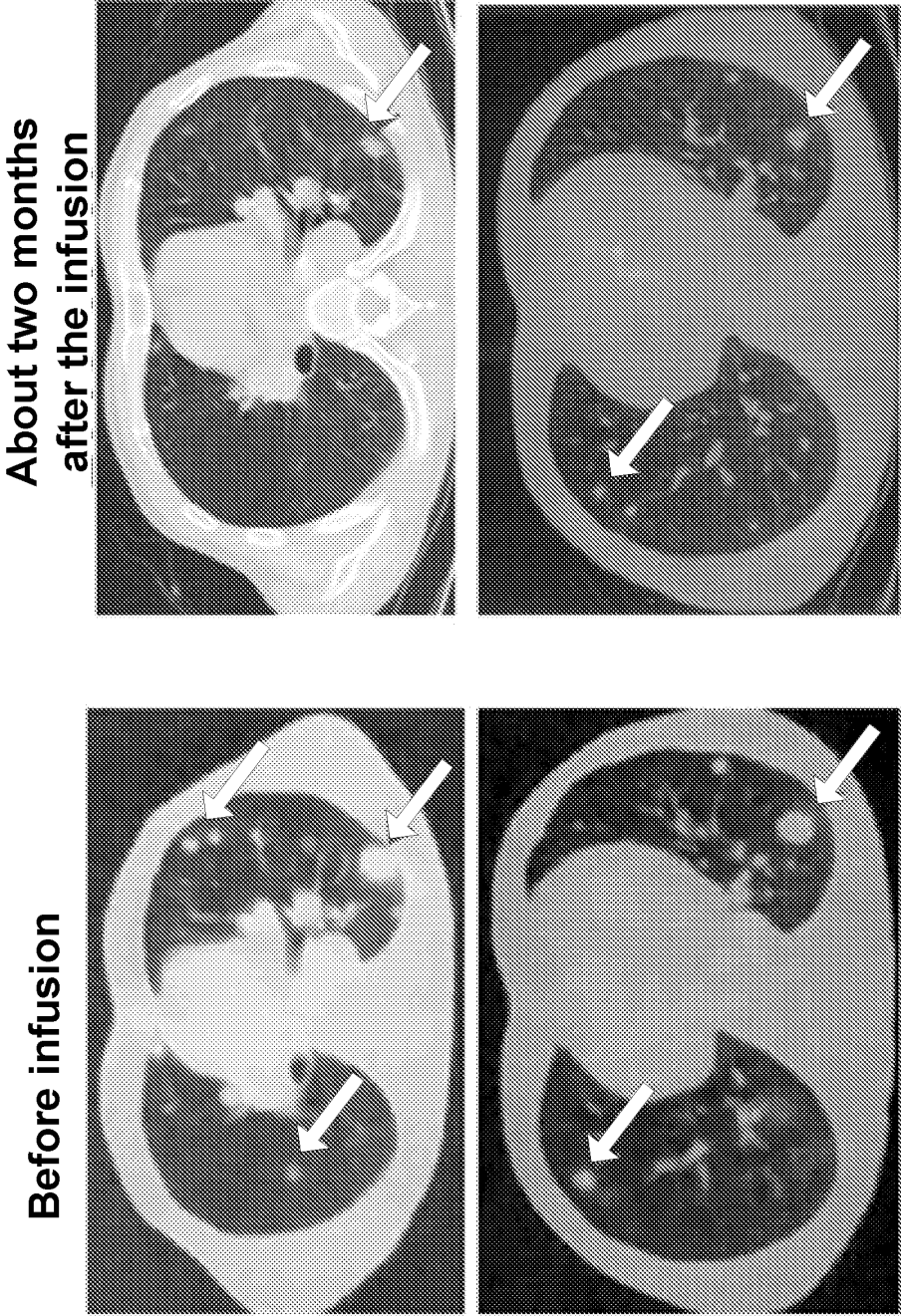


FIG. 34

FIG. 35



Patient 010

FIG. 36

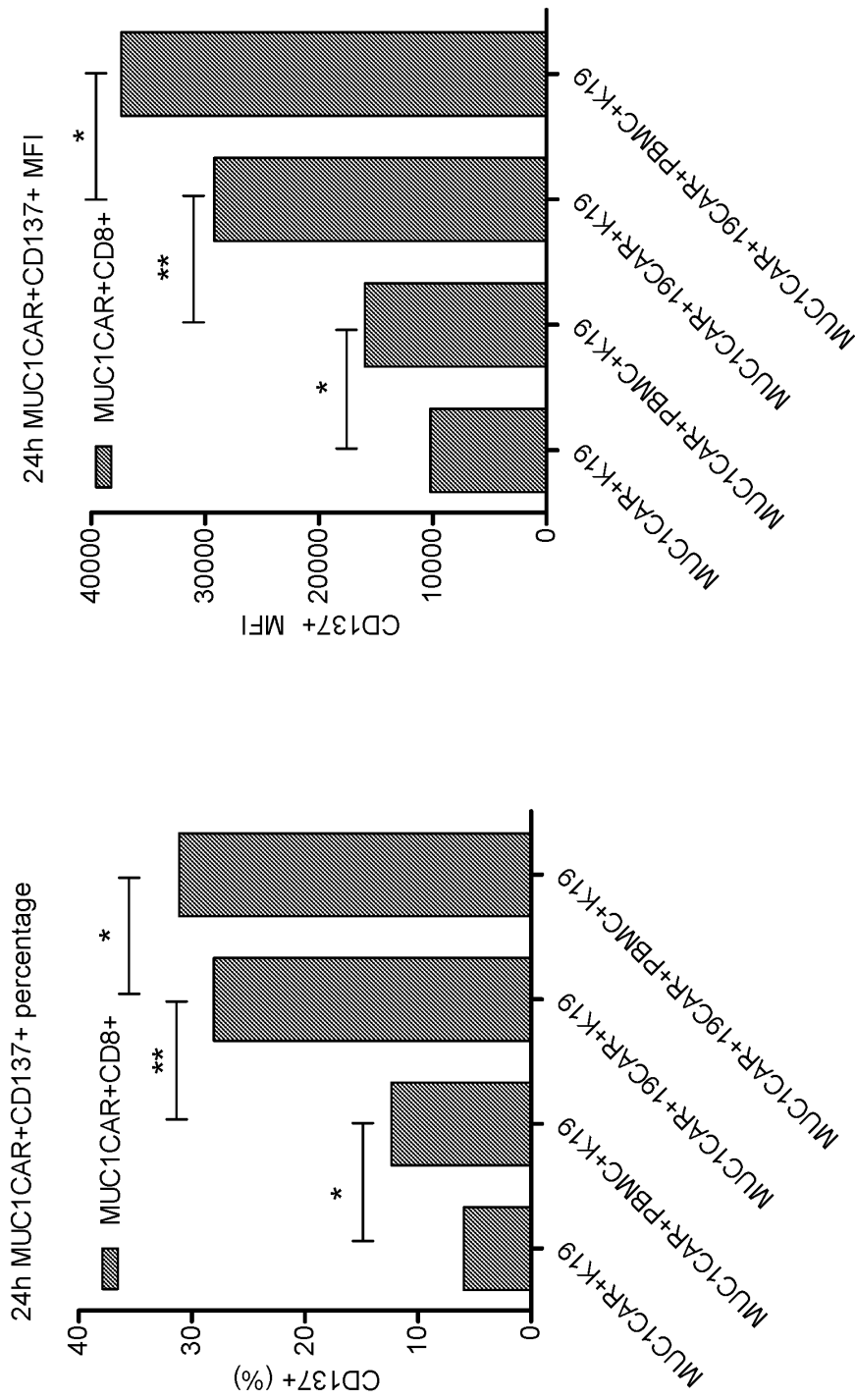


FIG. 37

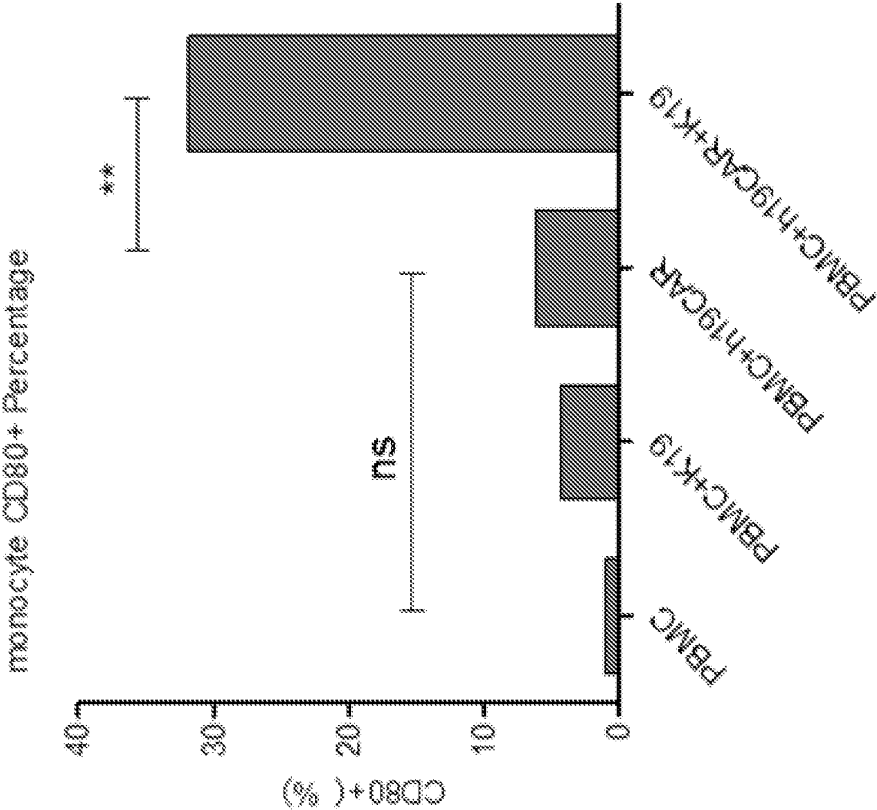


FIG. 38

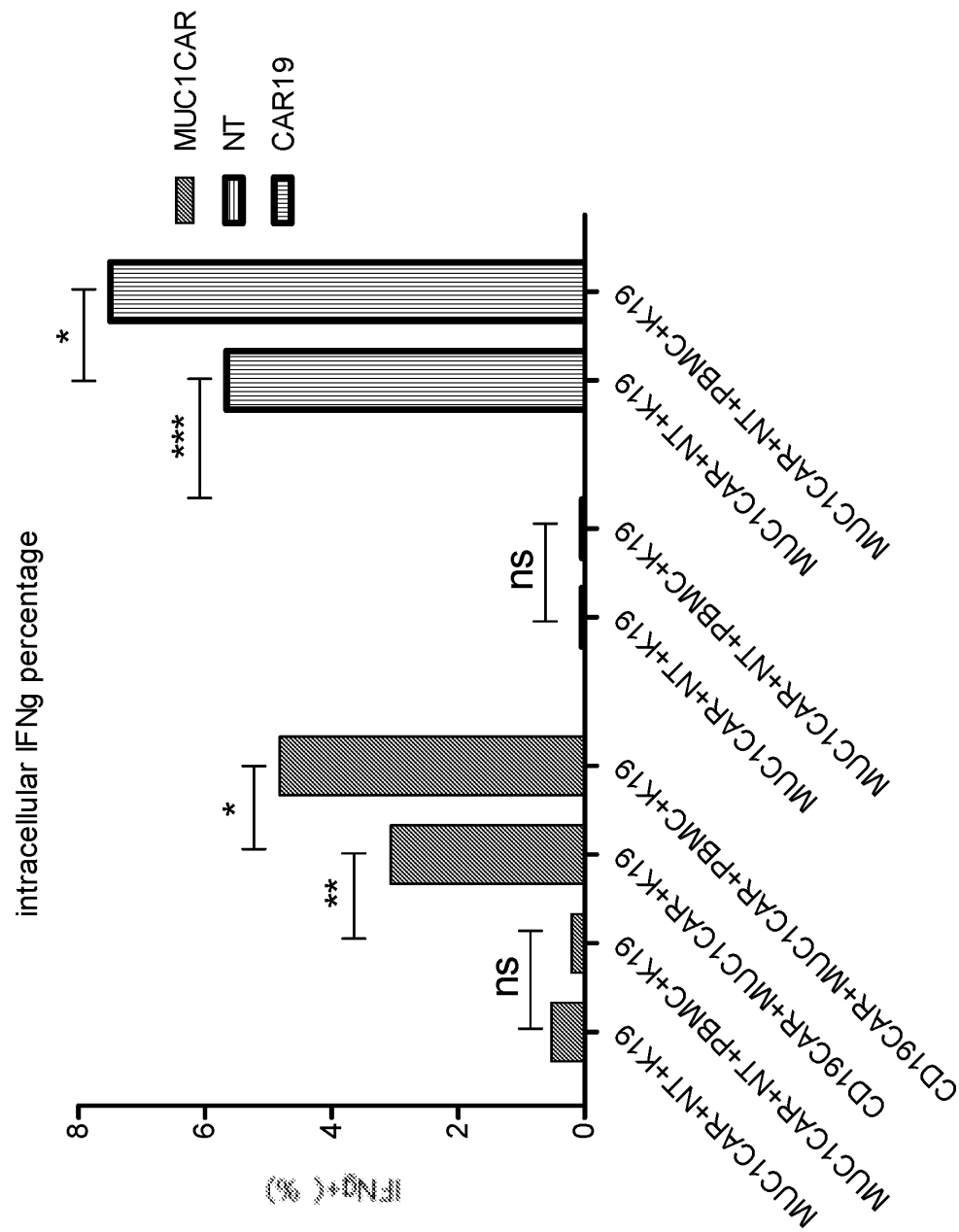


FIG. 39

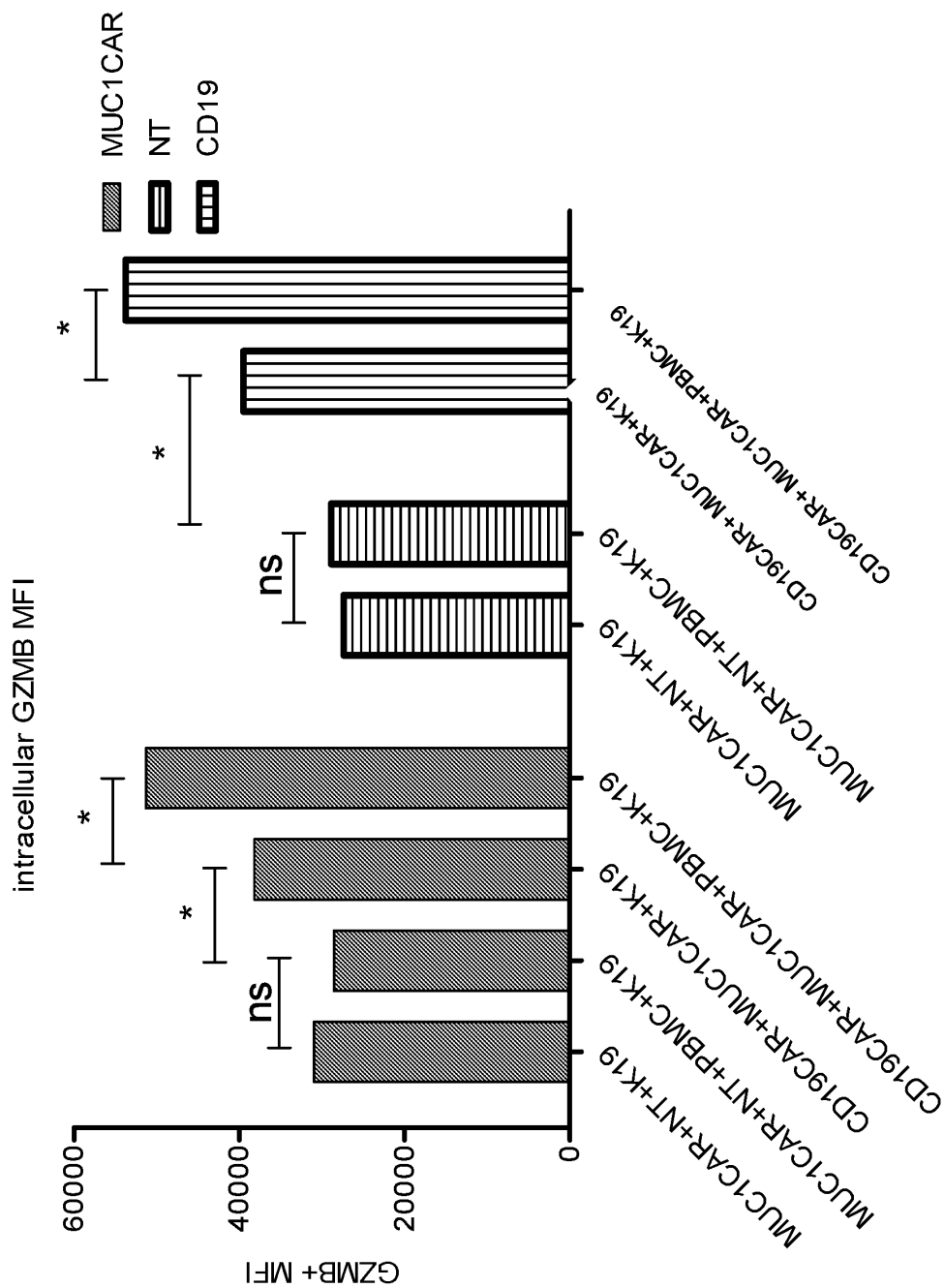


FIG. 40

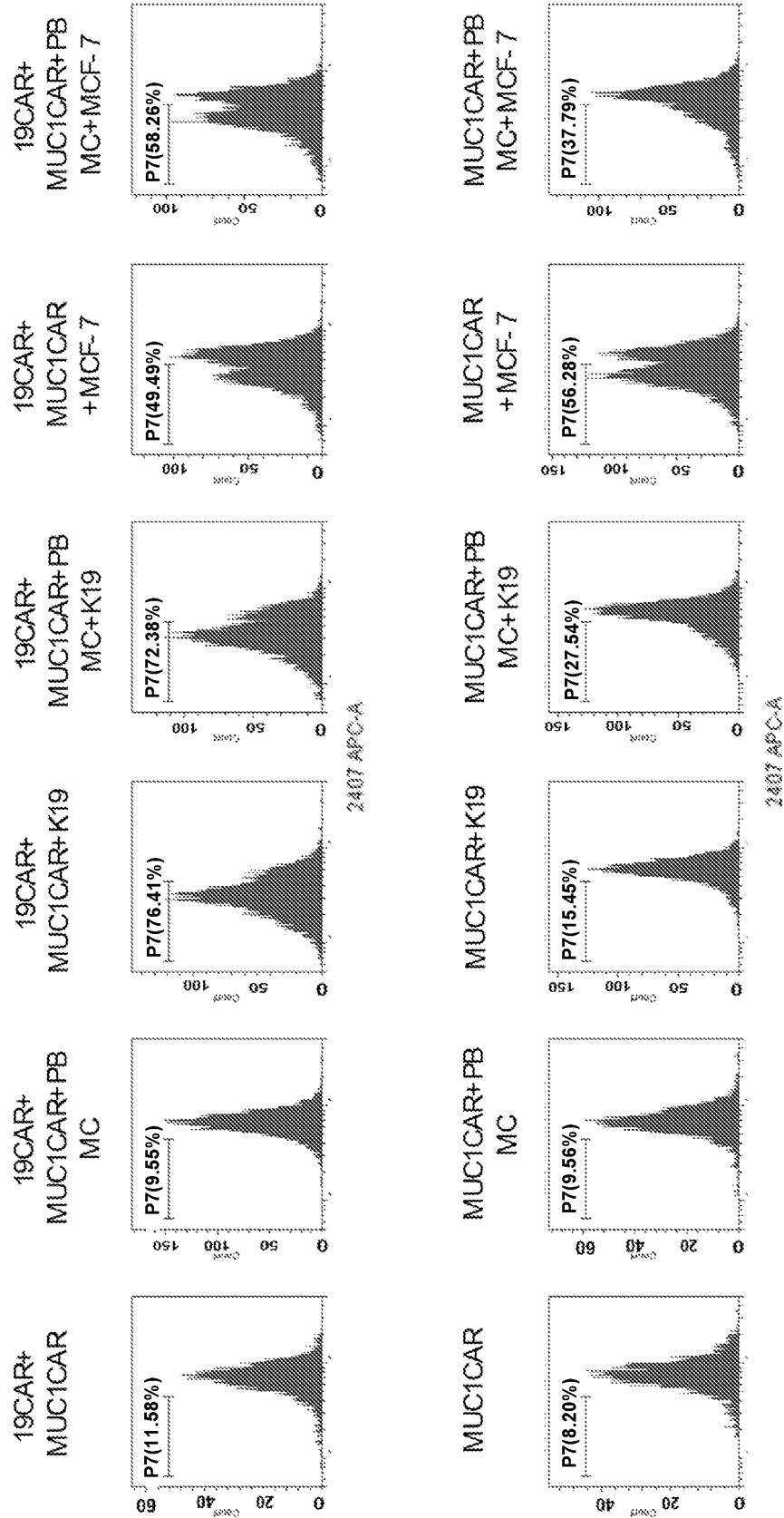
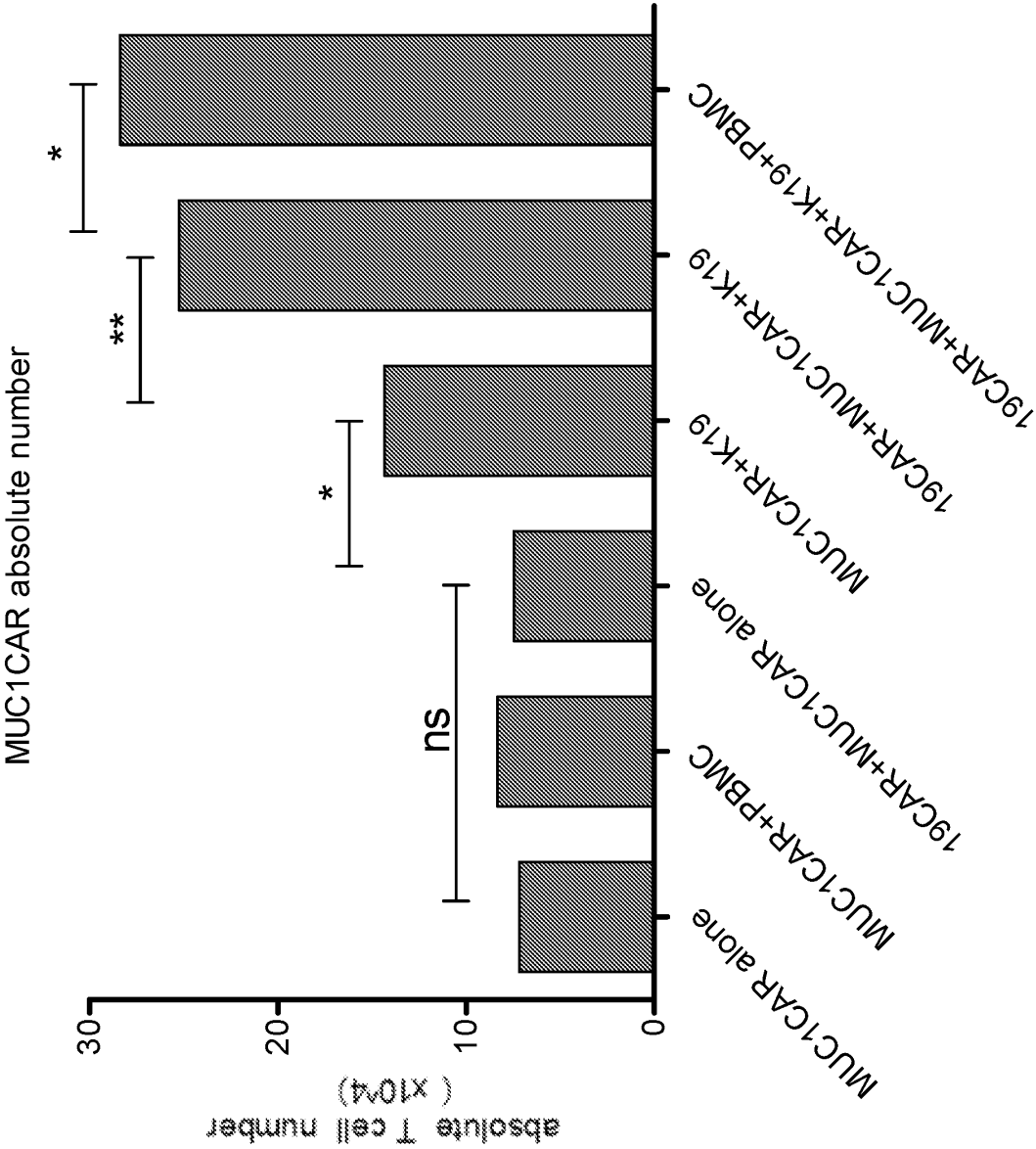


FIG. 41



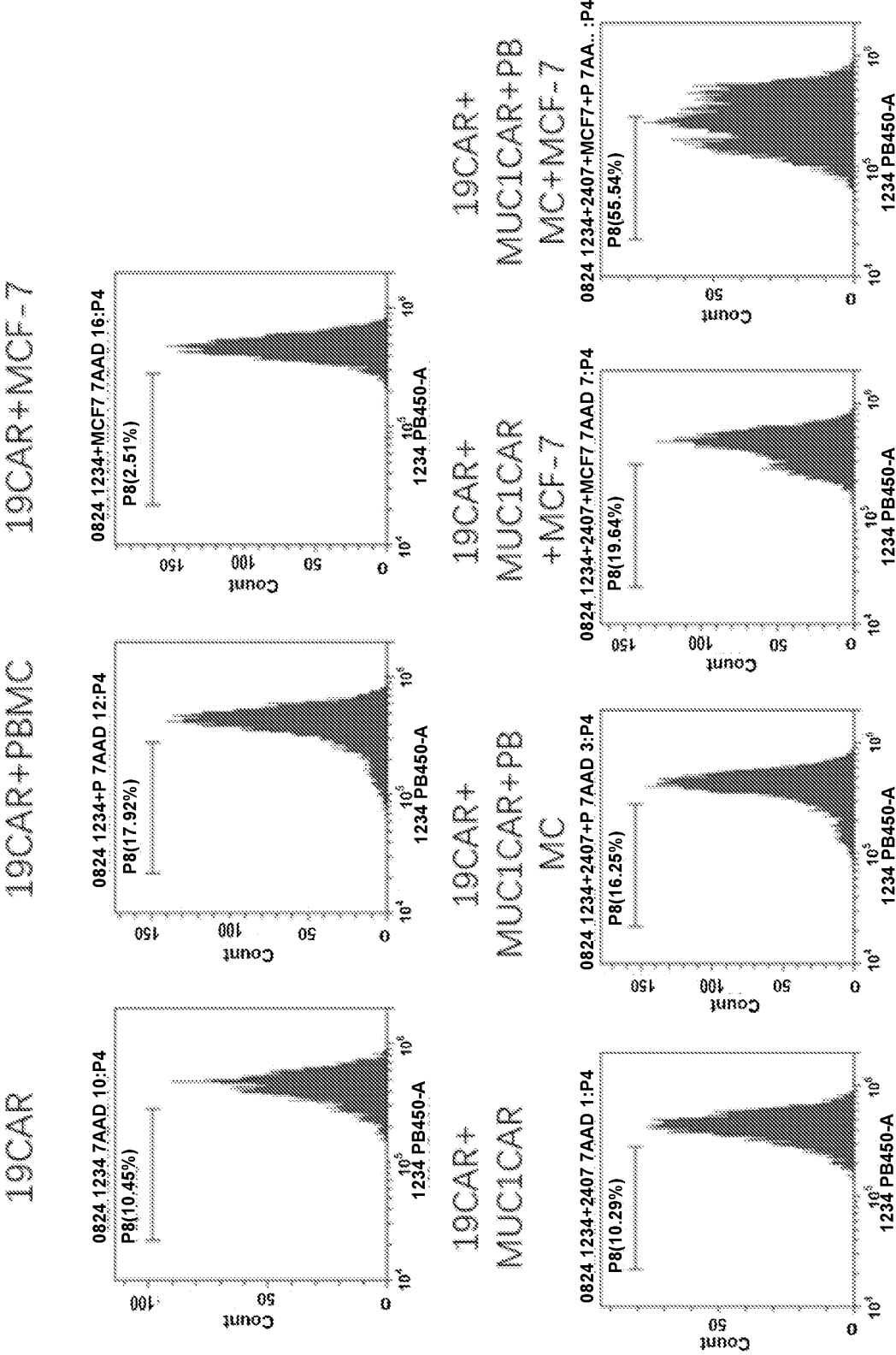
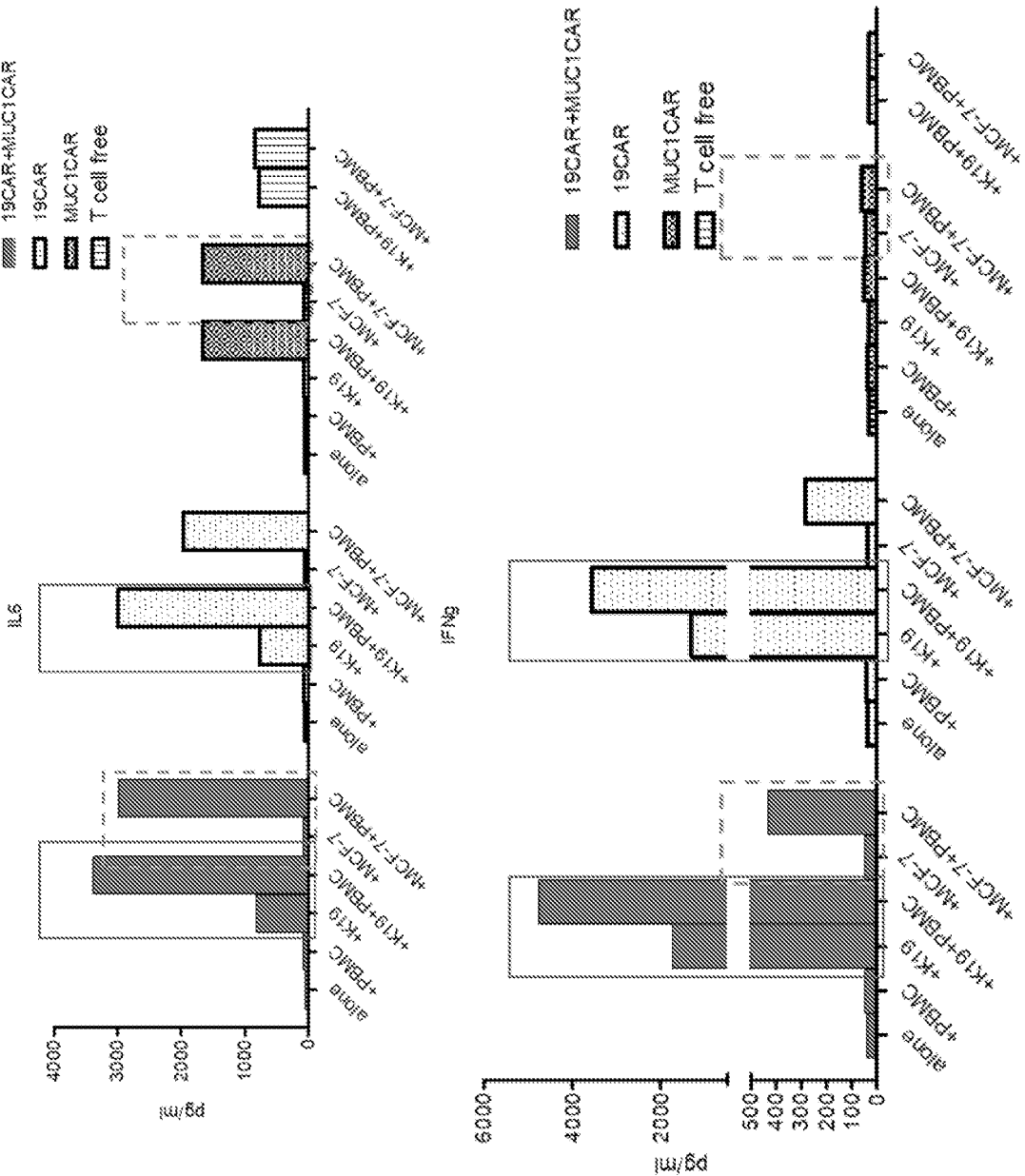


FIG. 42

FIG. 43



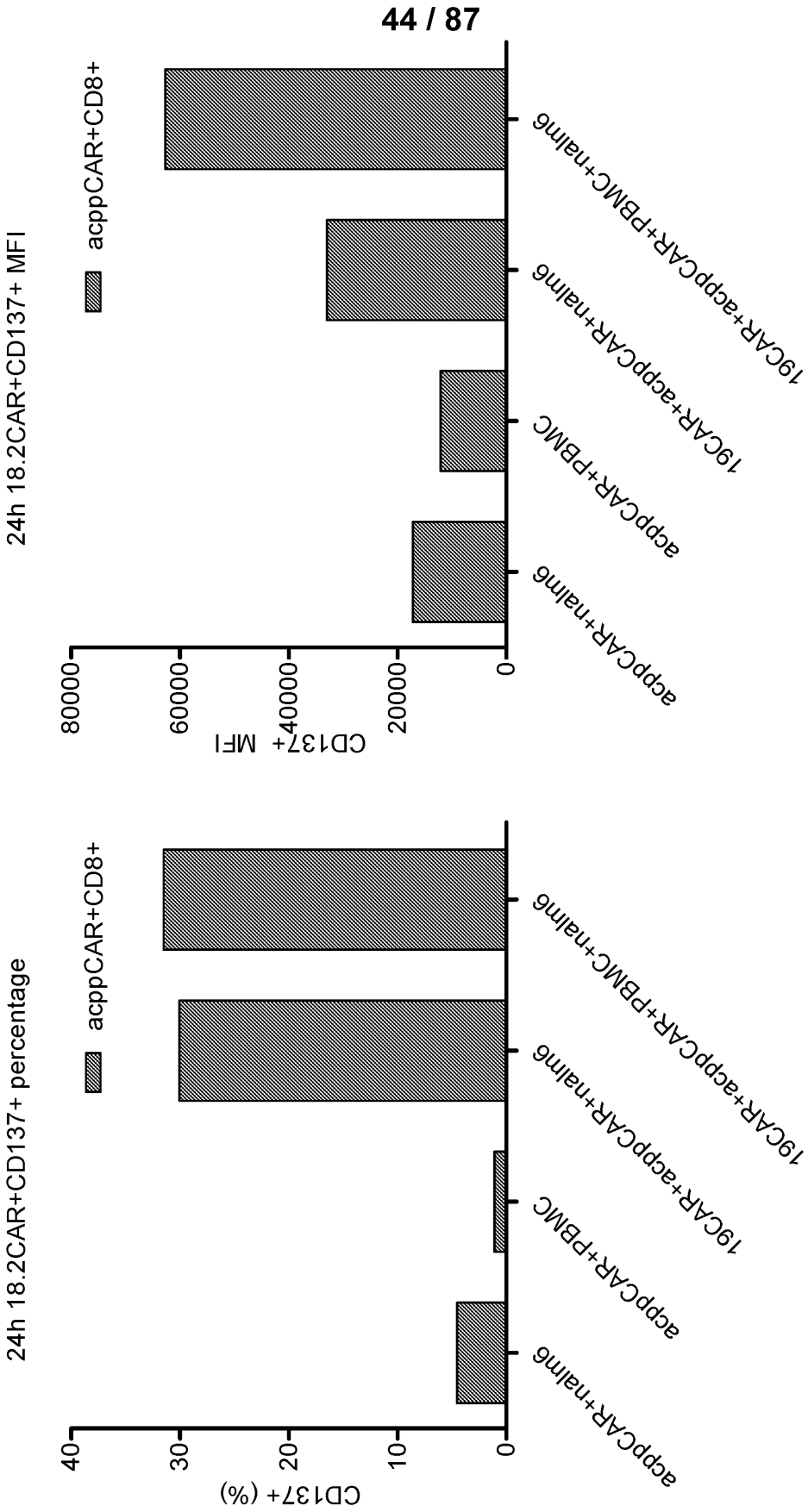


FIG. 44

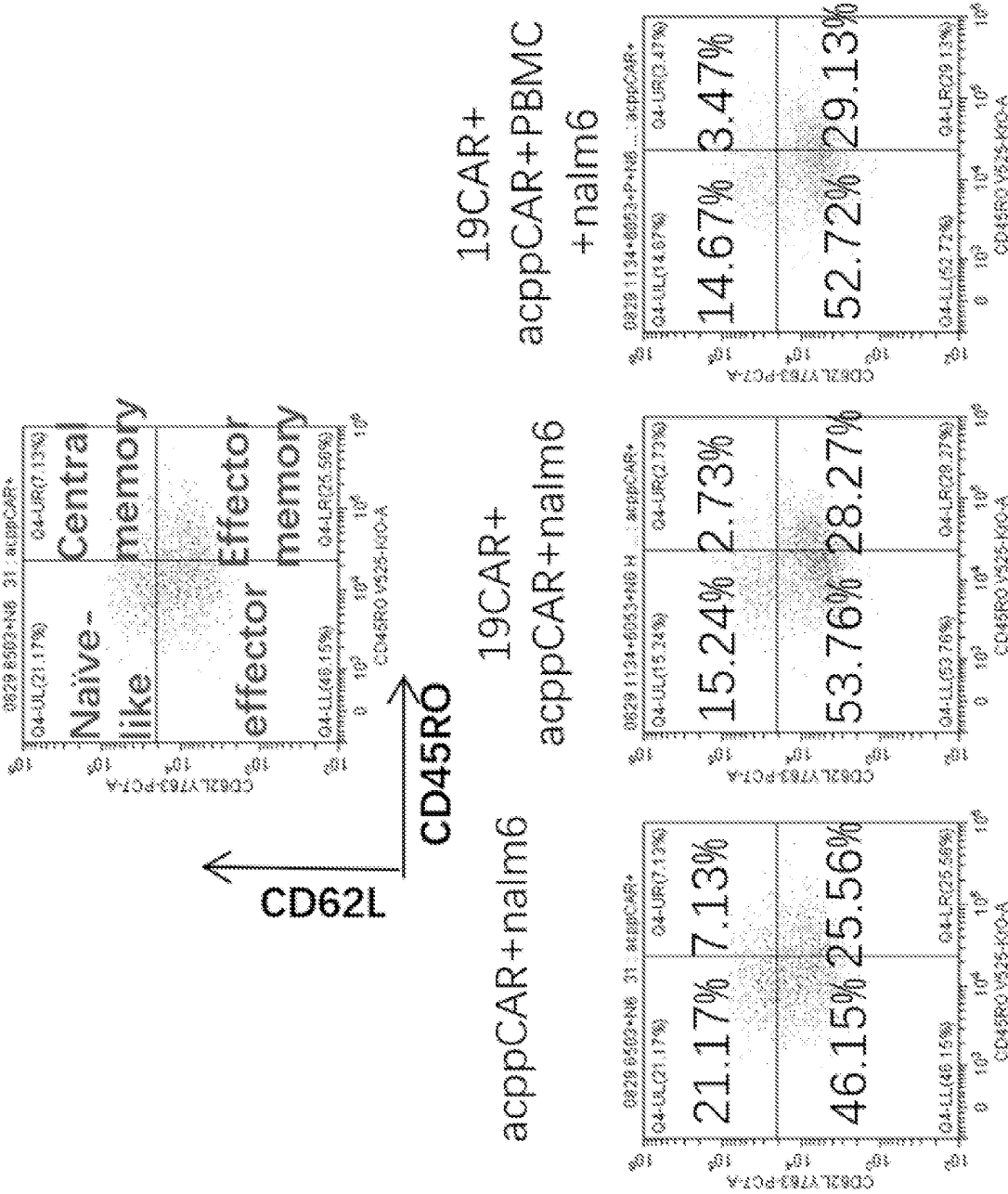


FIG. 45

FIG. 46

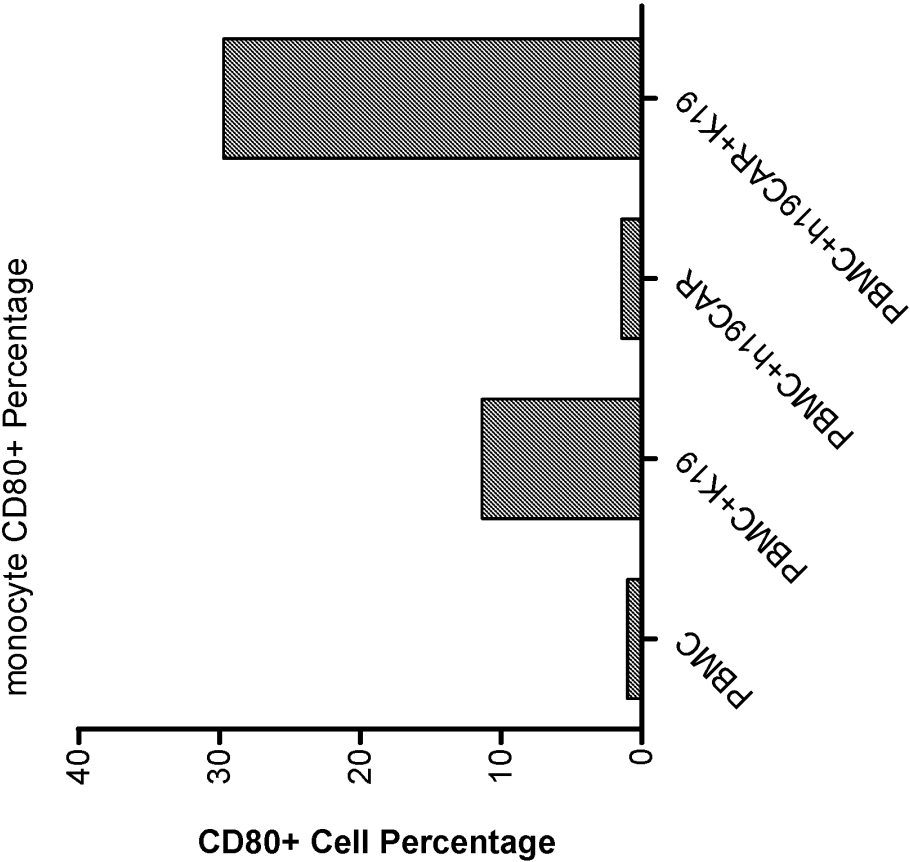


FIG. 47

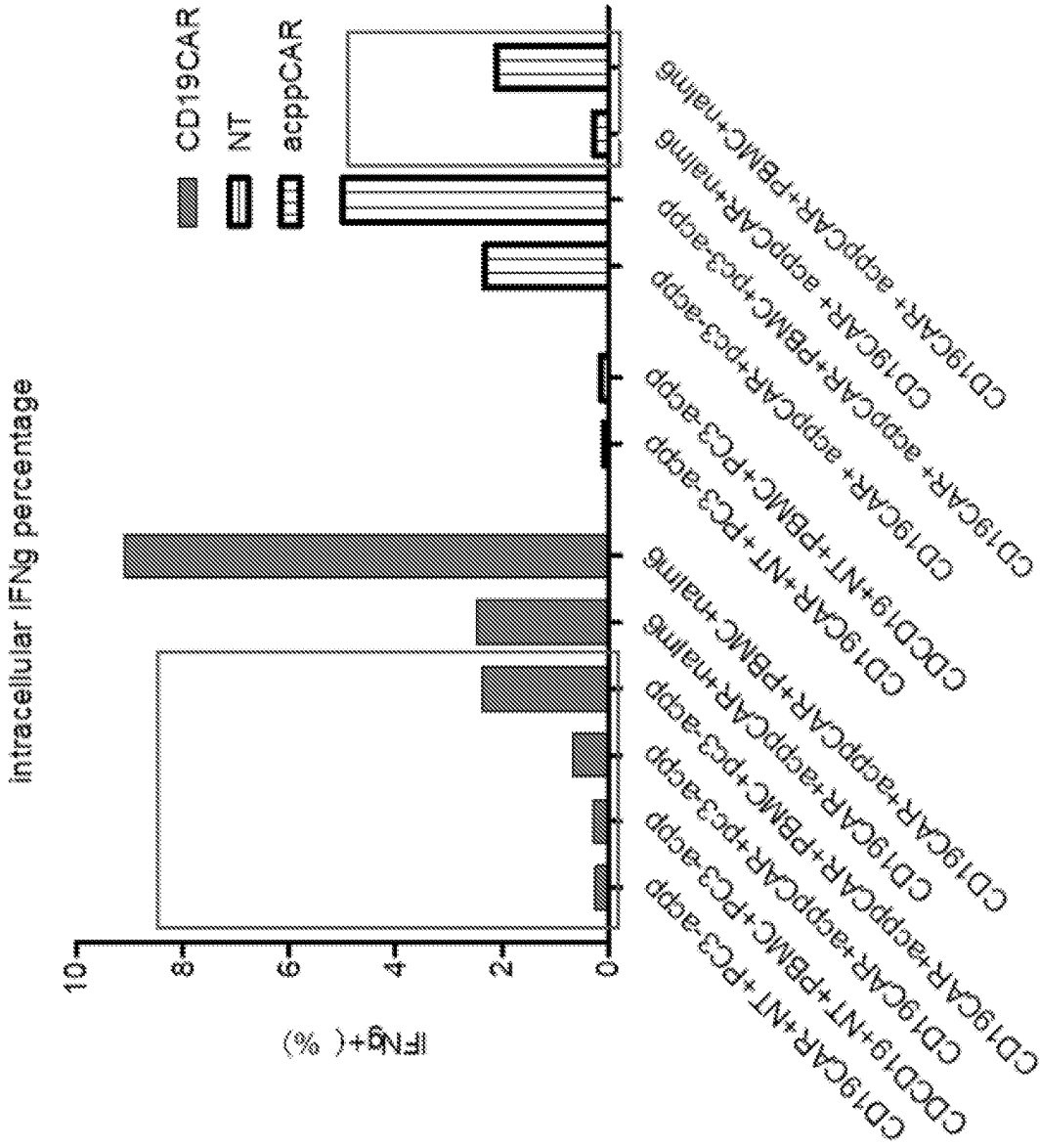


FIG. 48

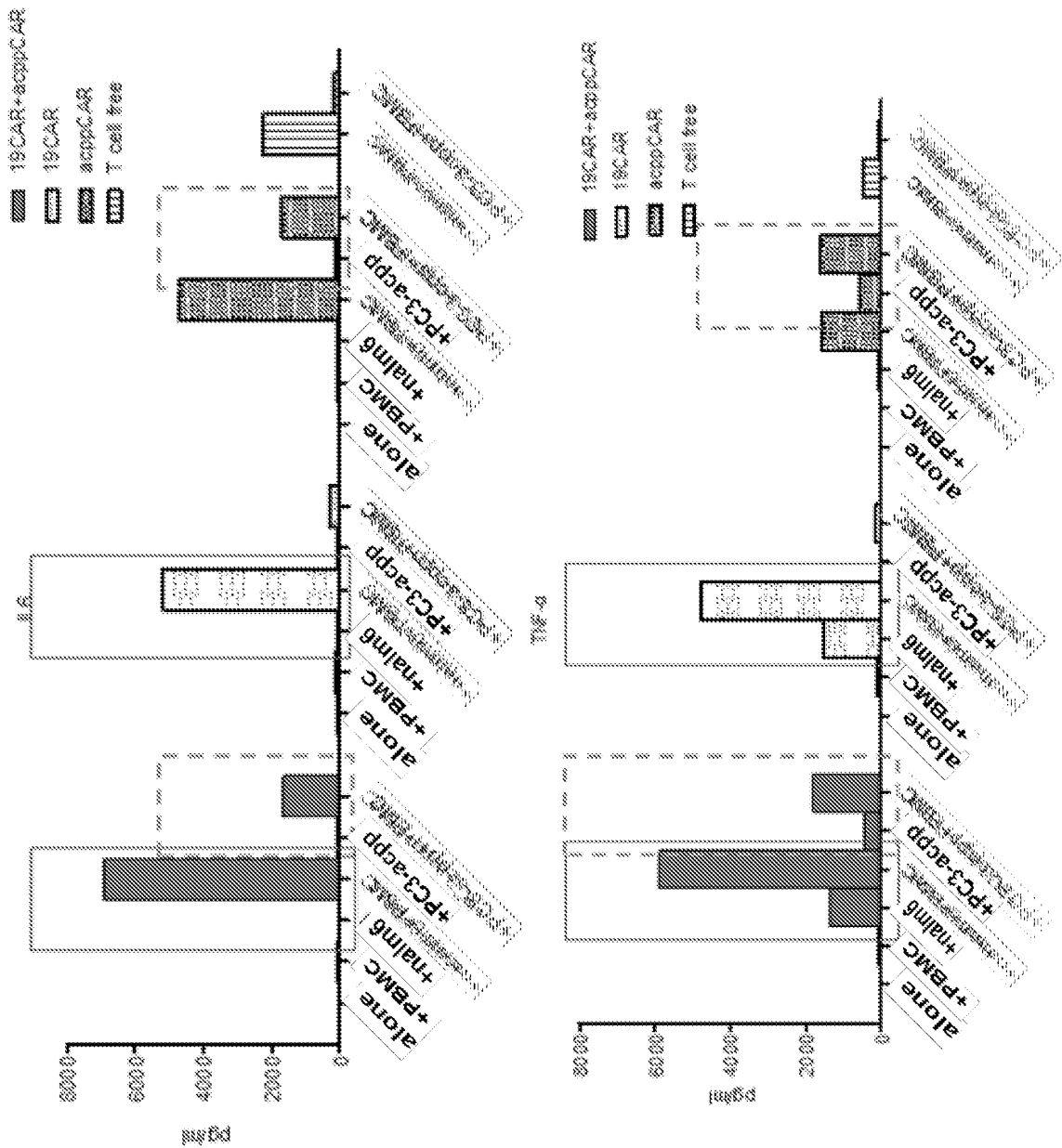
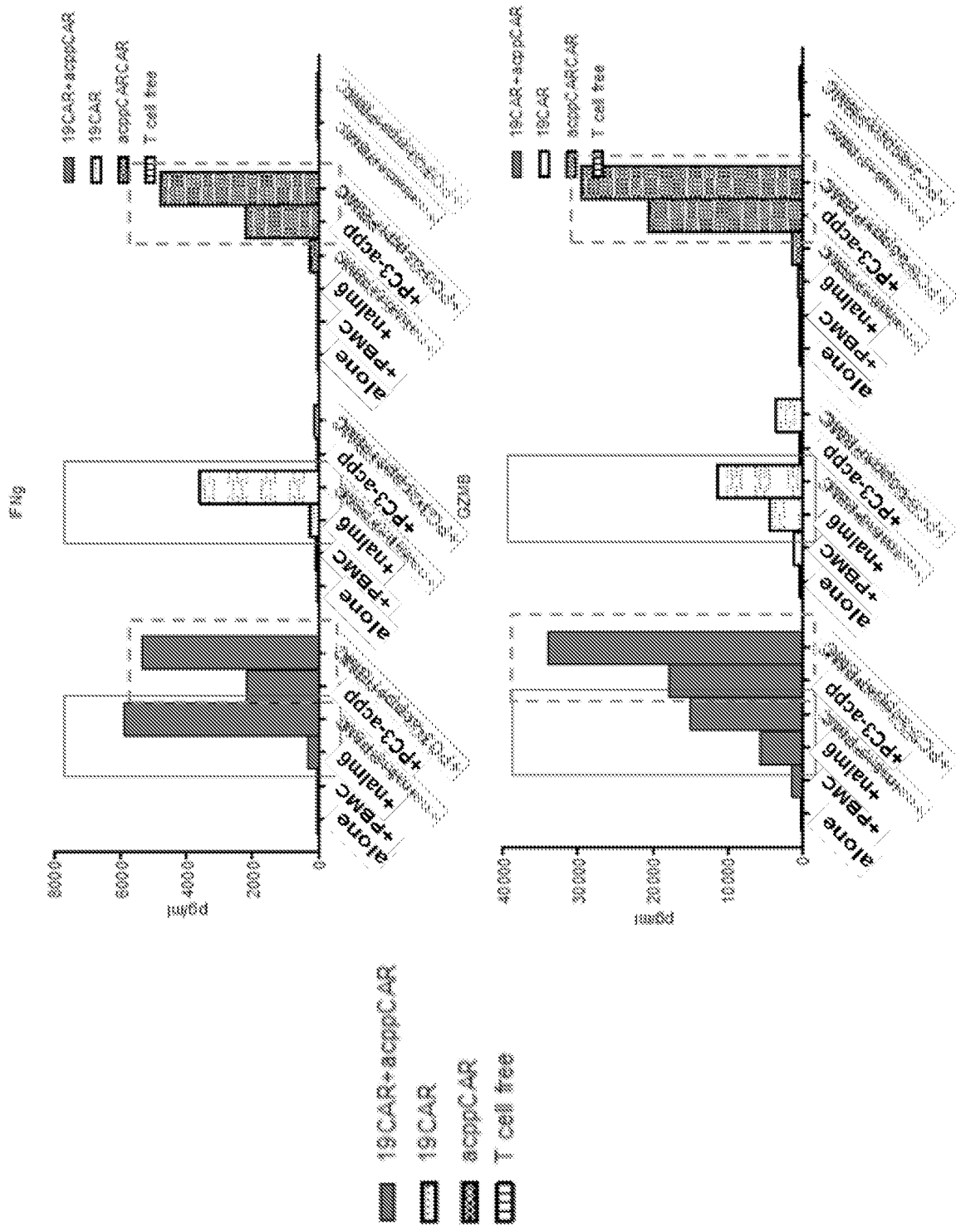


FIG. 49



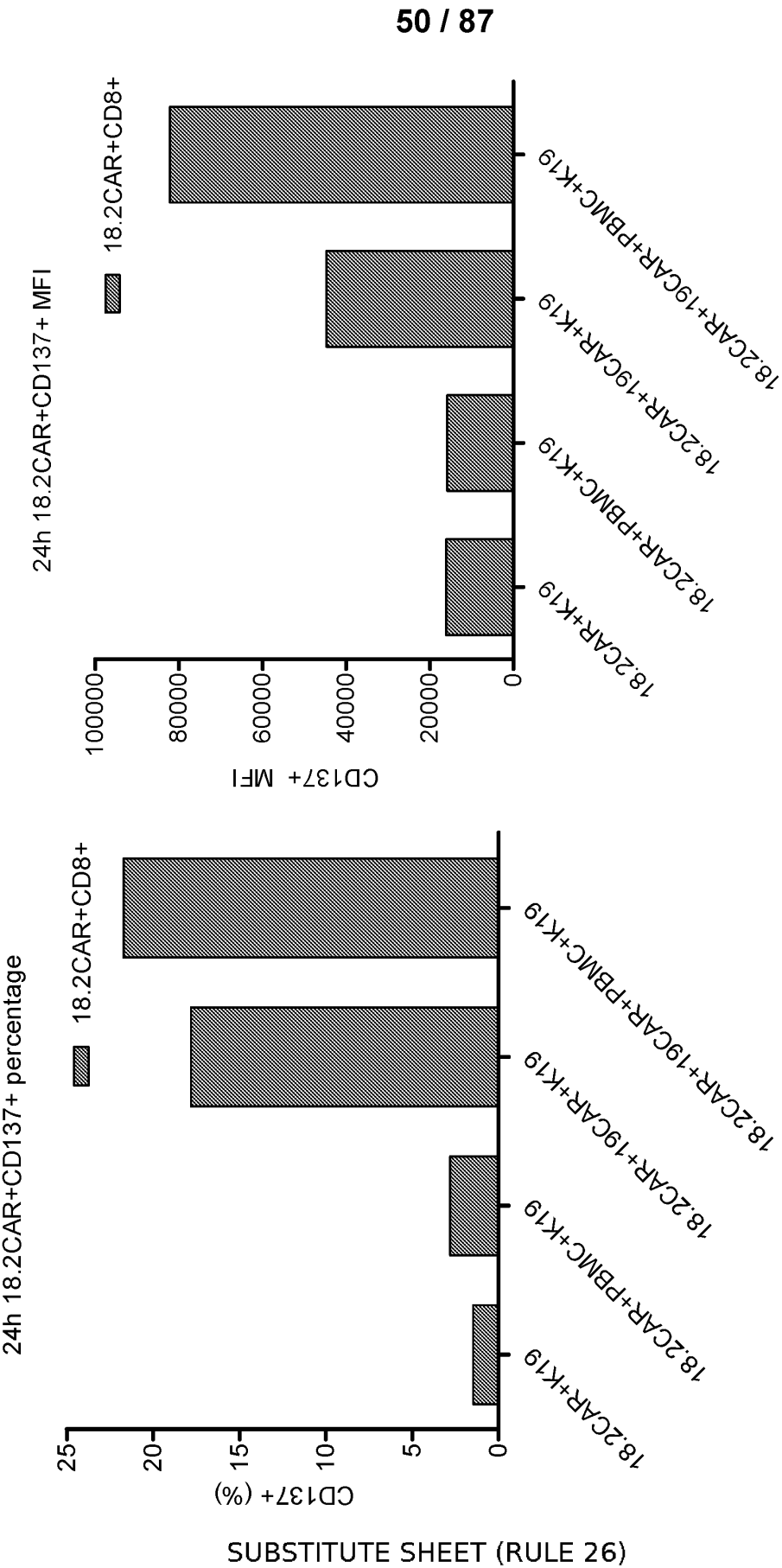


FIG. 50

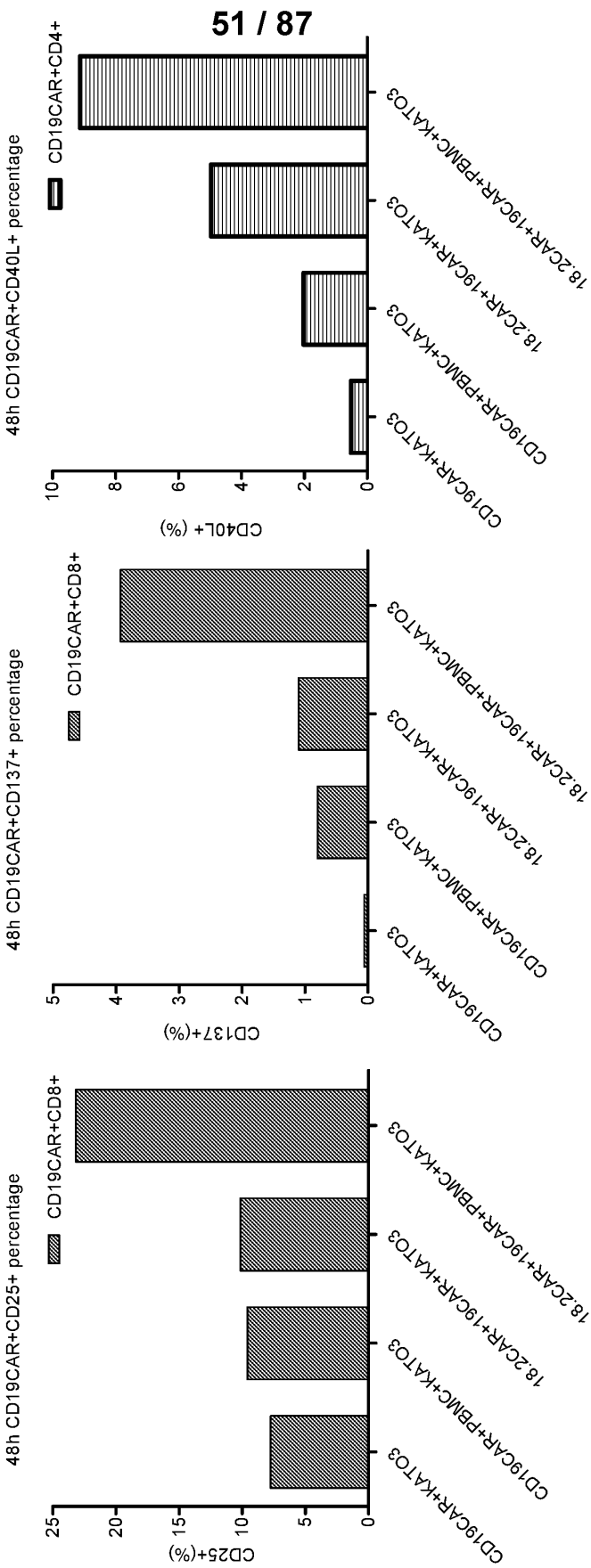


FIG. 51

FIG. 52

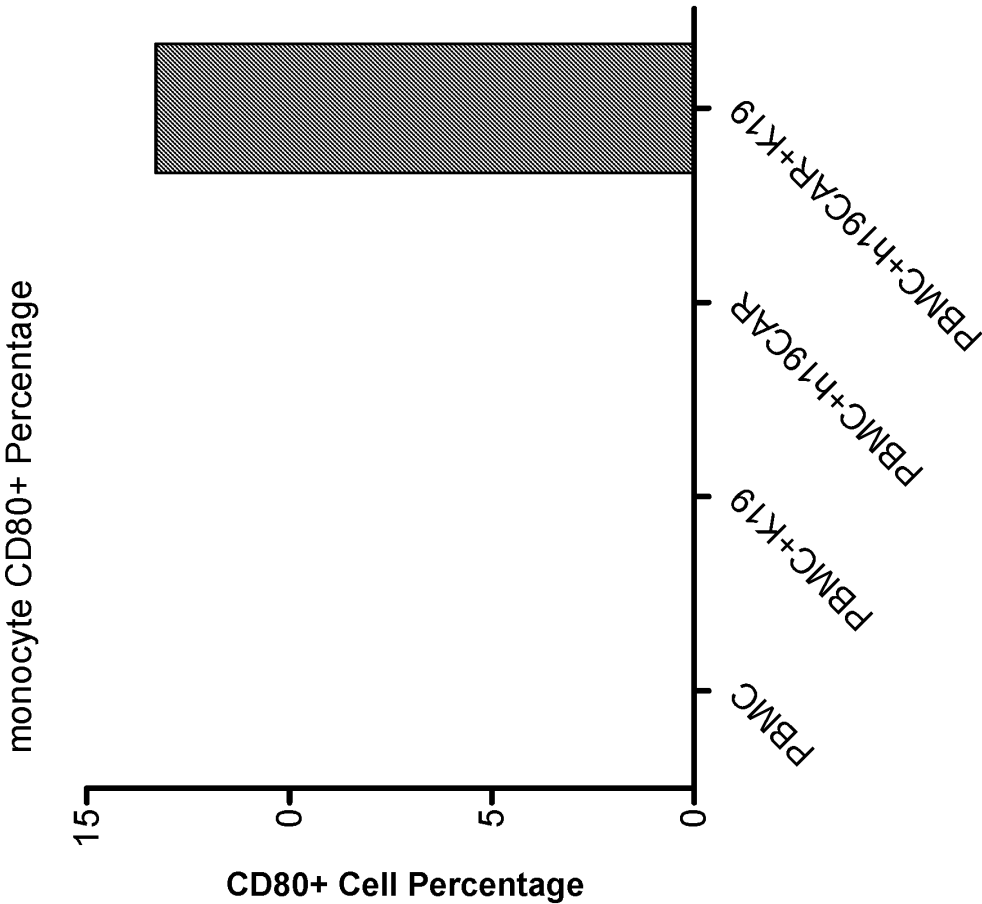


FIG. 53

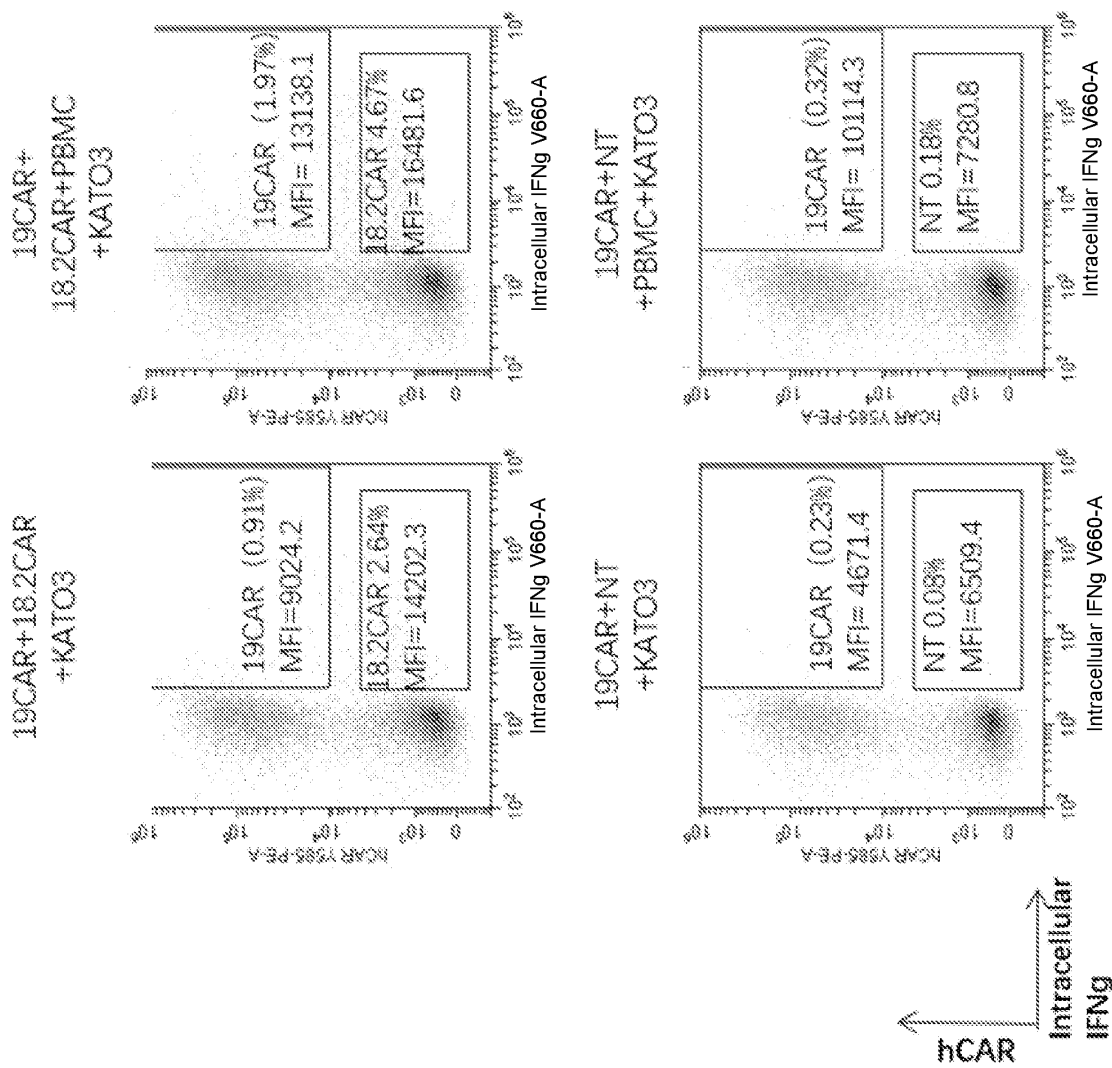


FIG. 54

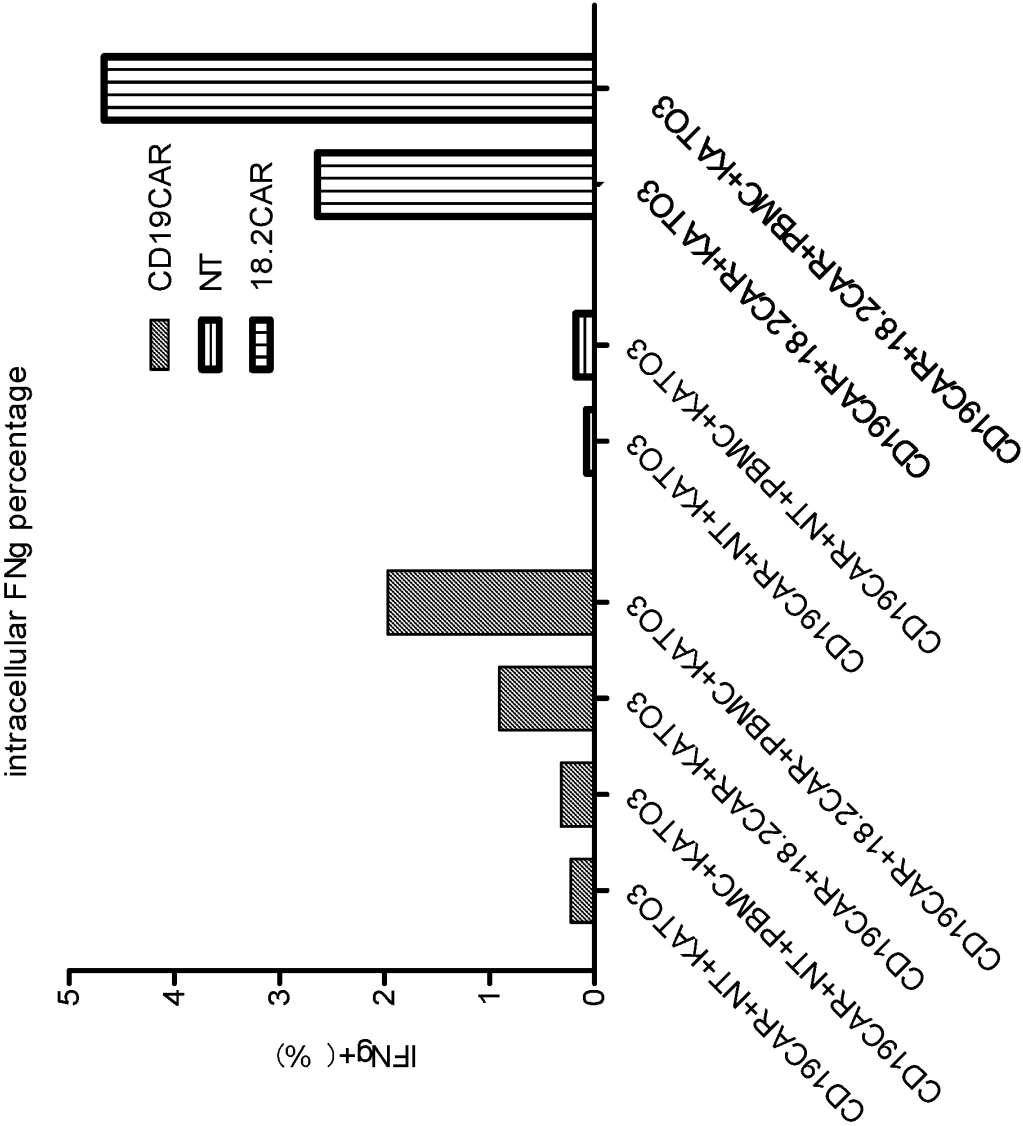


FIG. 55

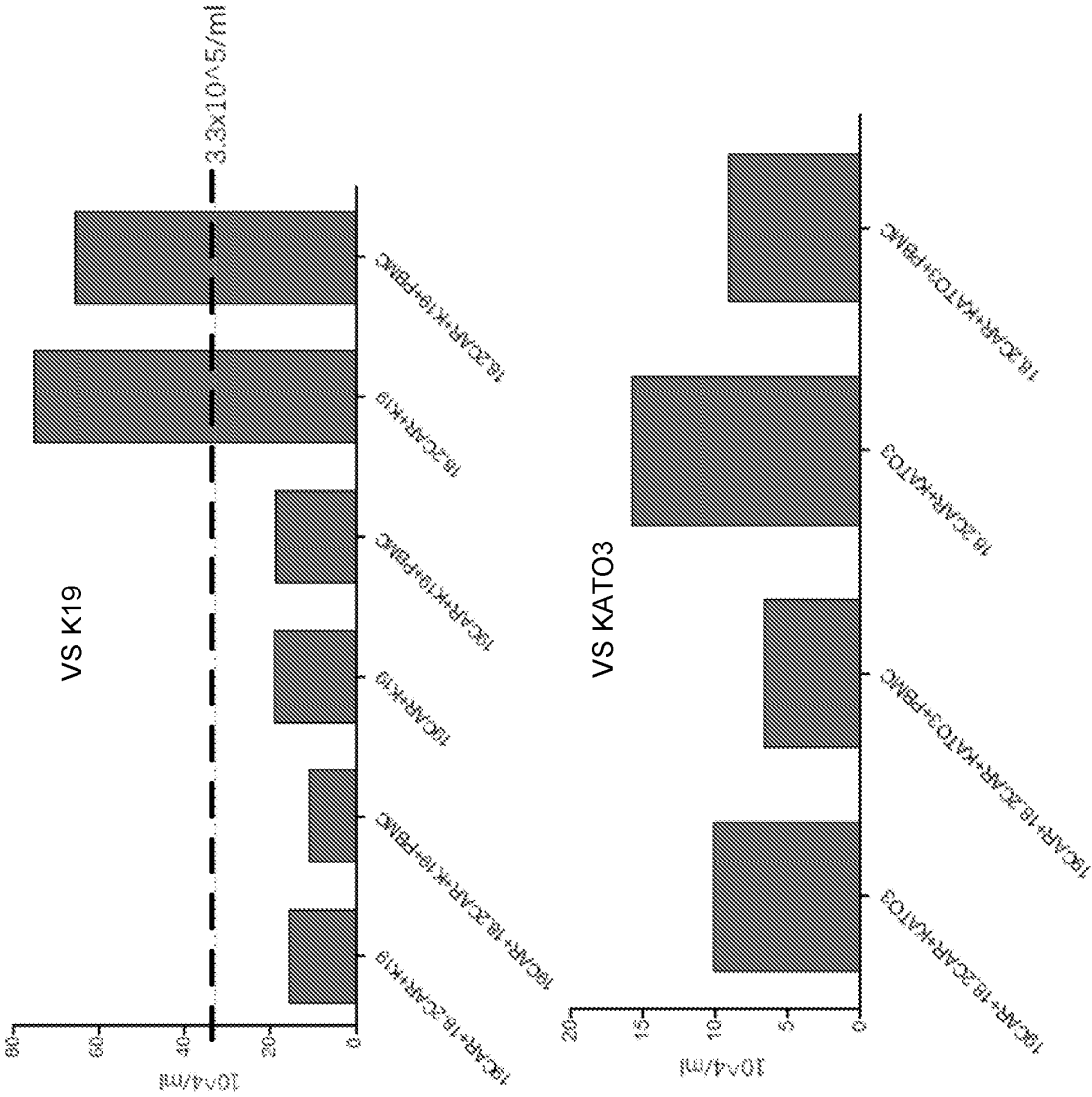


FIG. 56

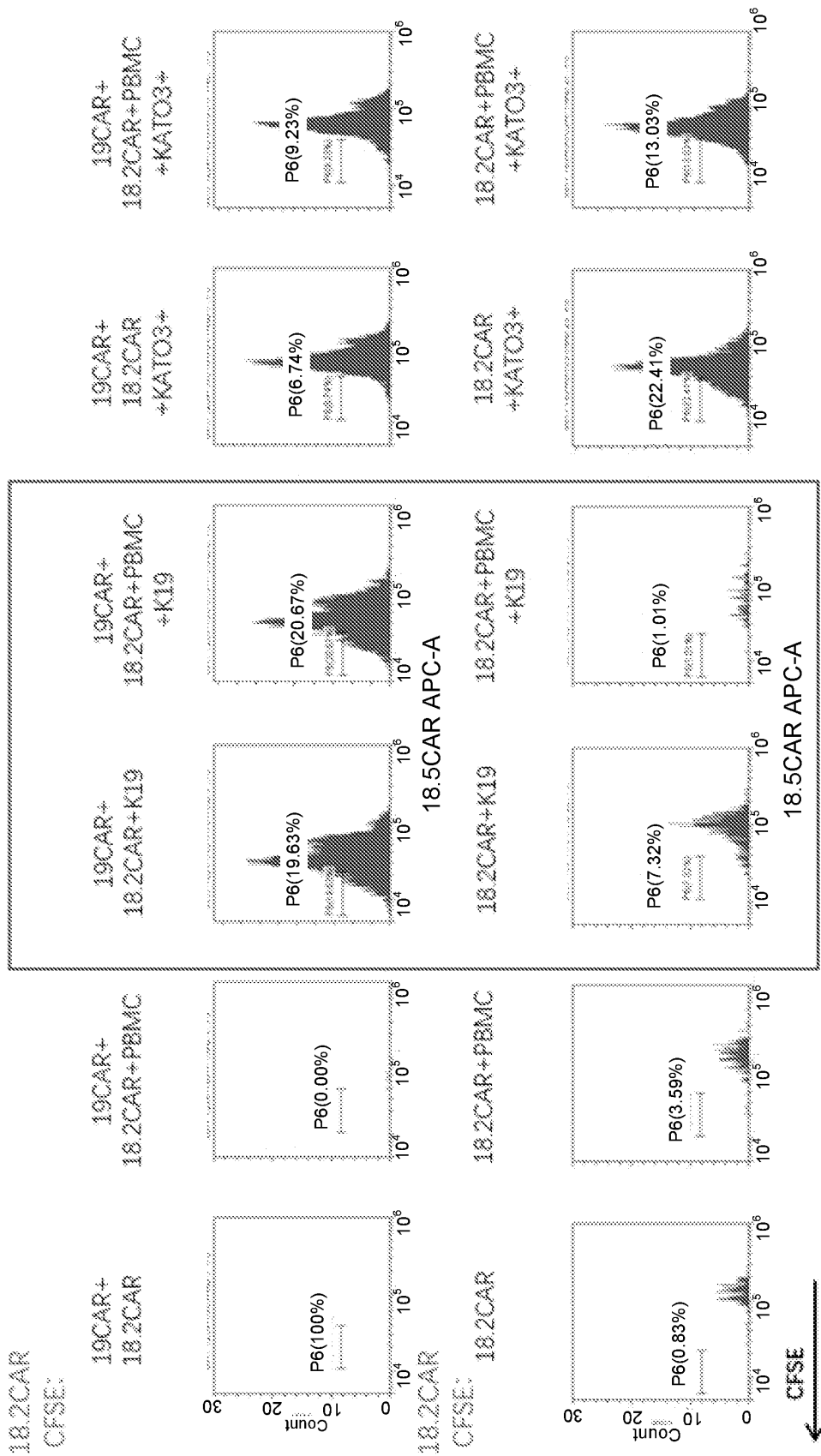


FIG. 57

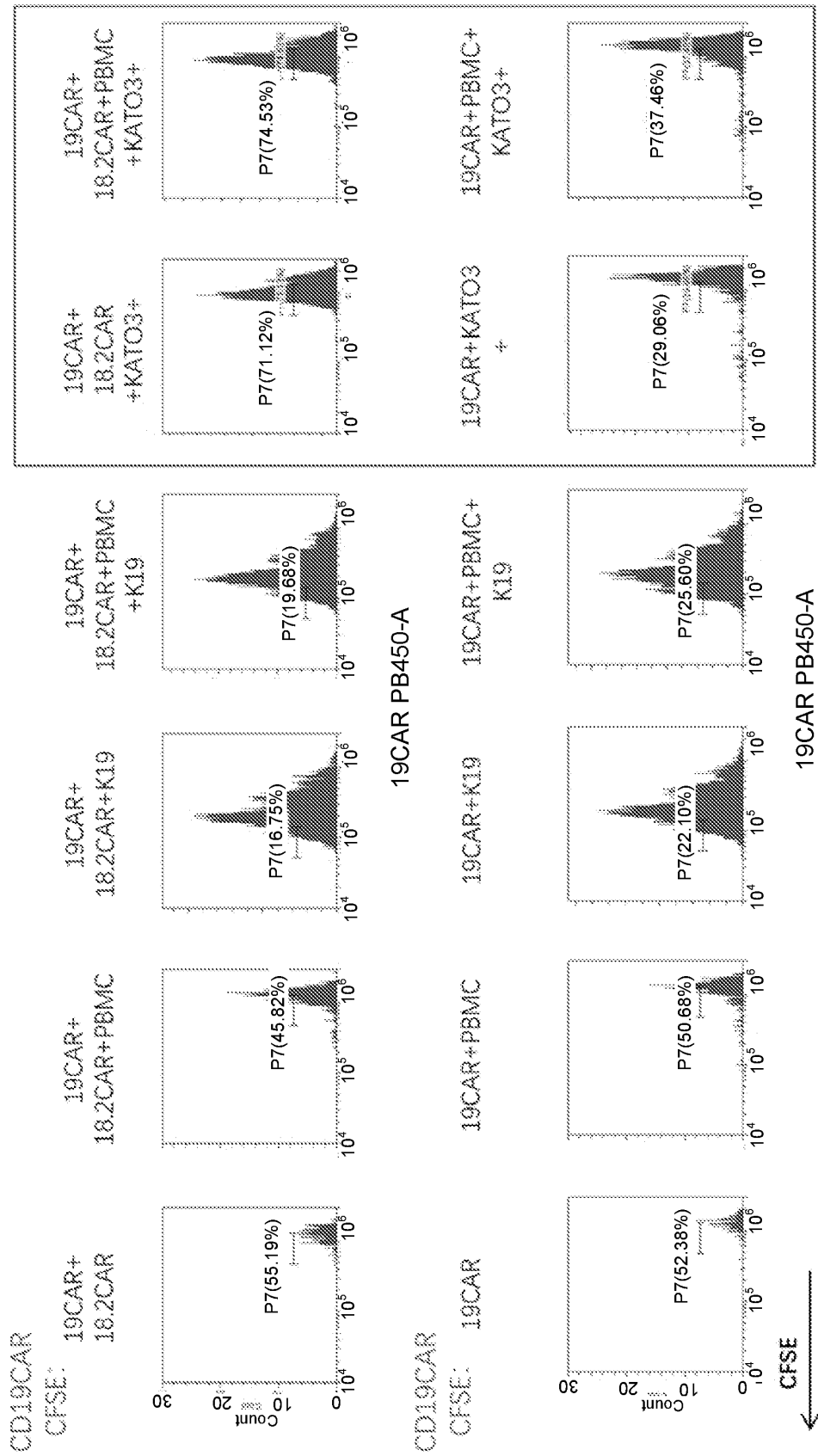


FIG. 58

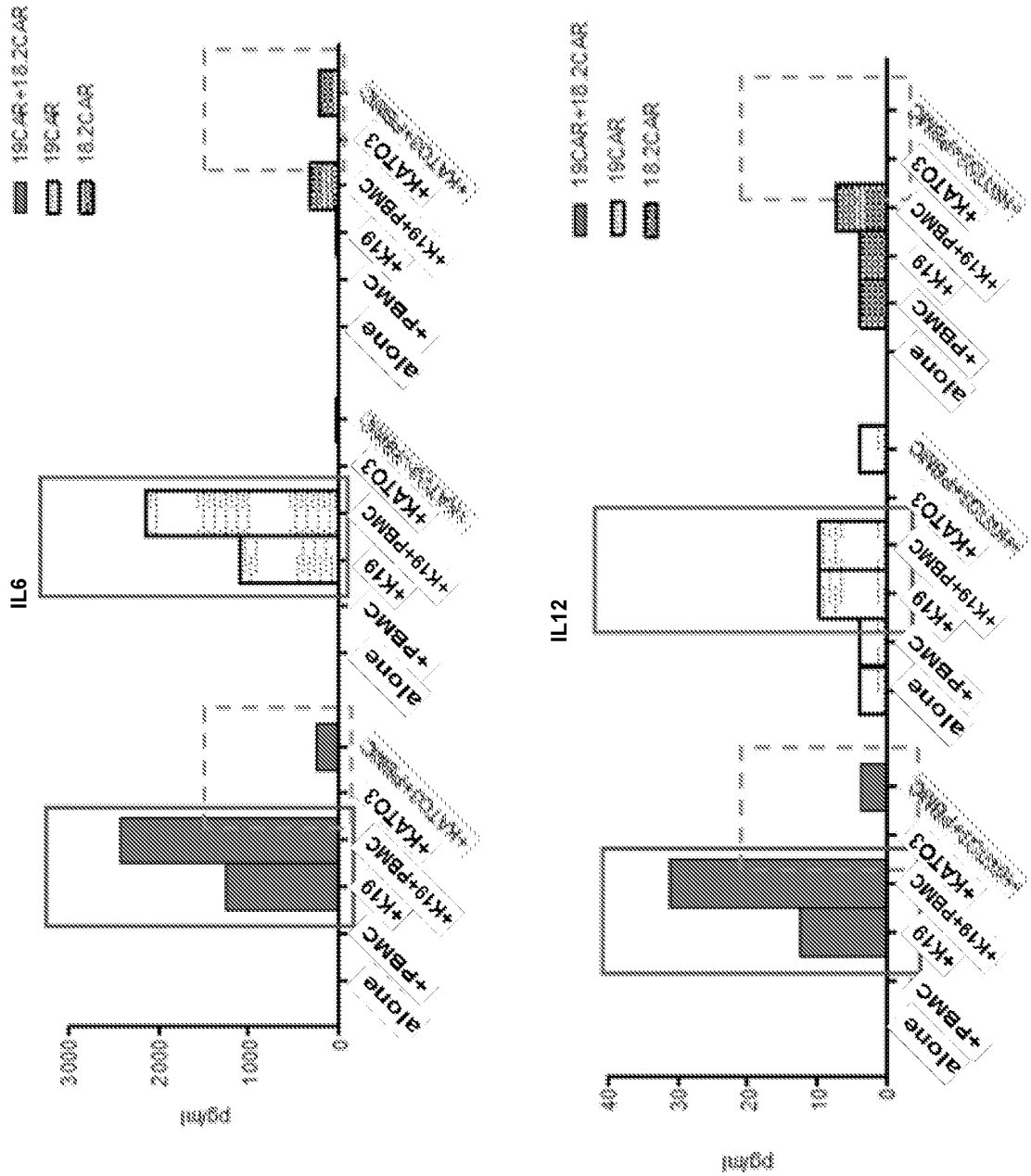


FIG. 59

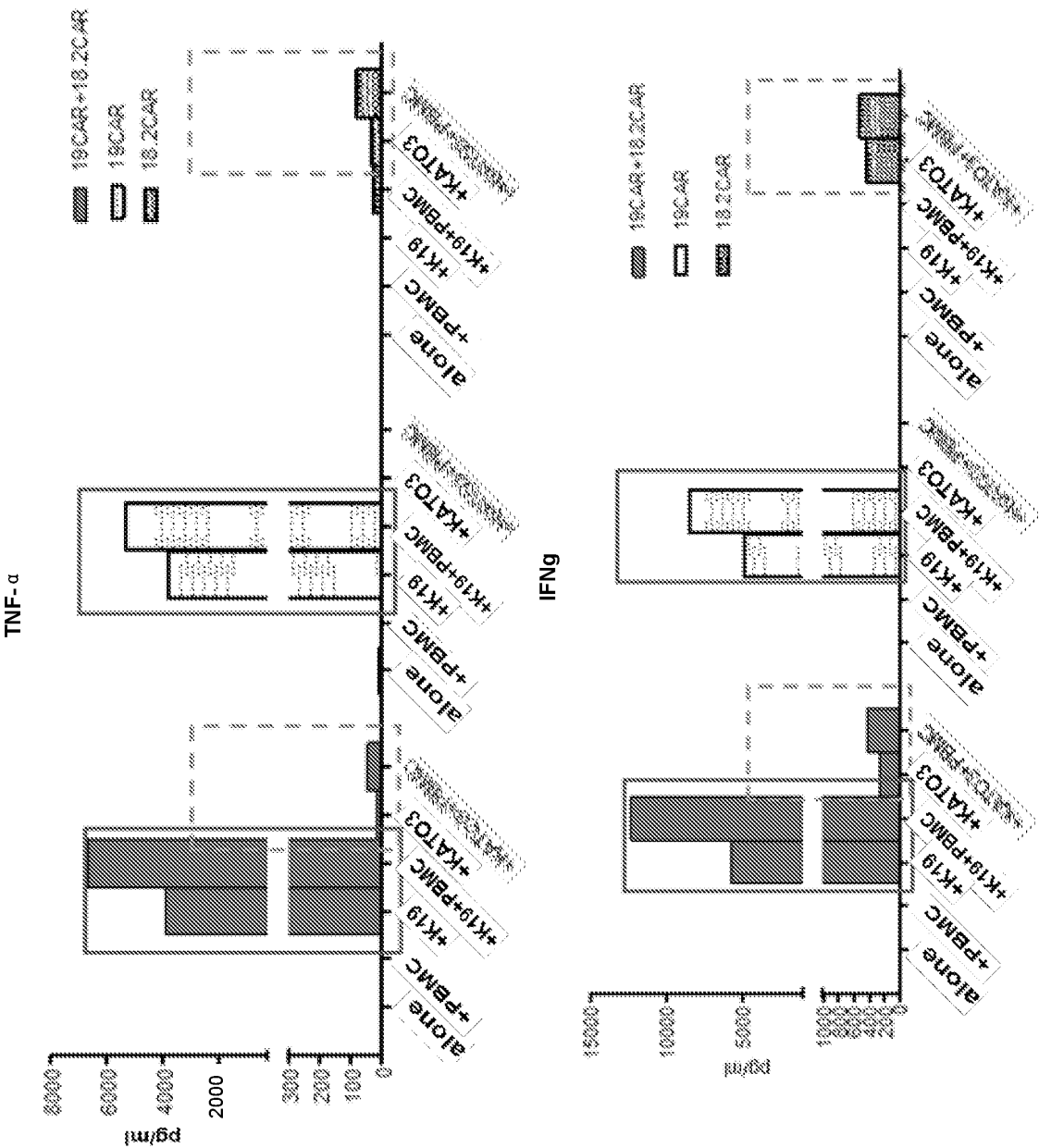
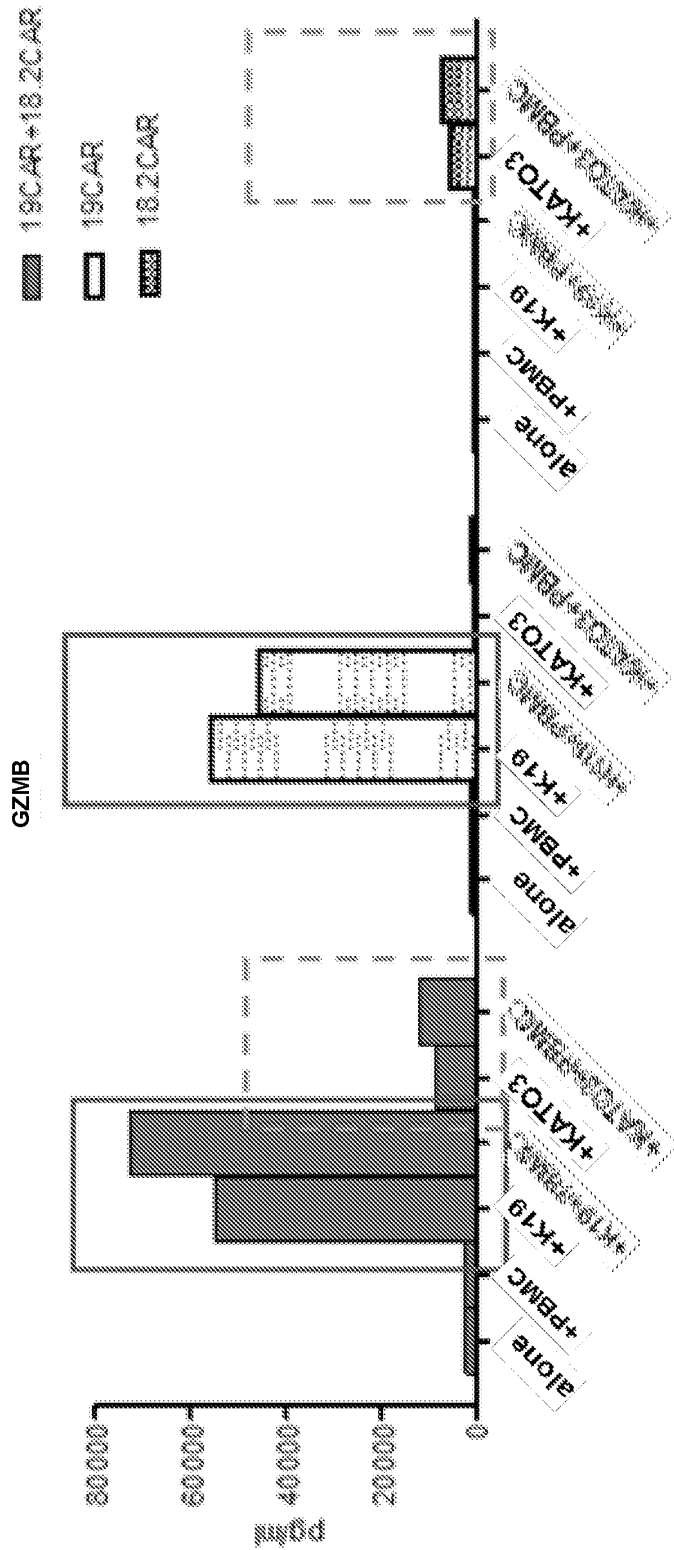


FIG. 60



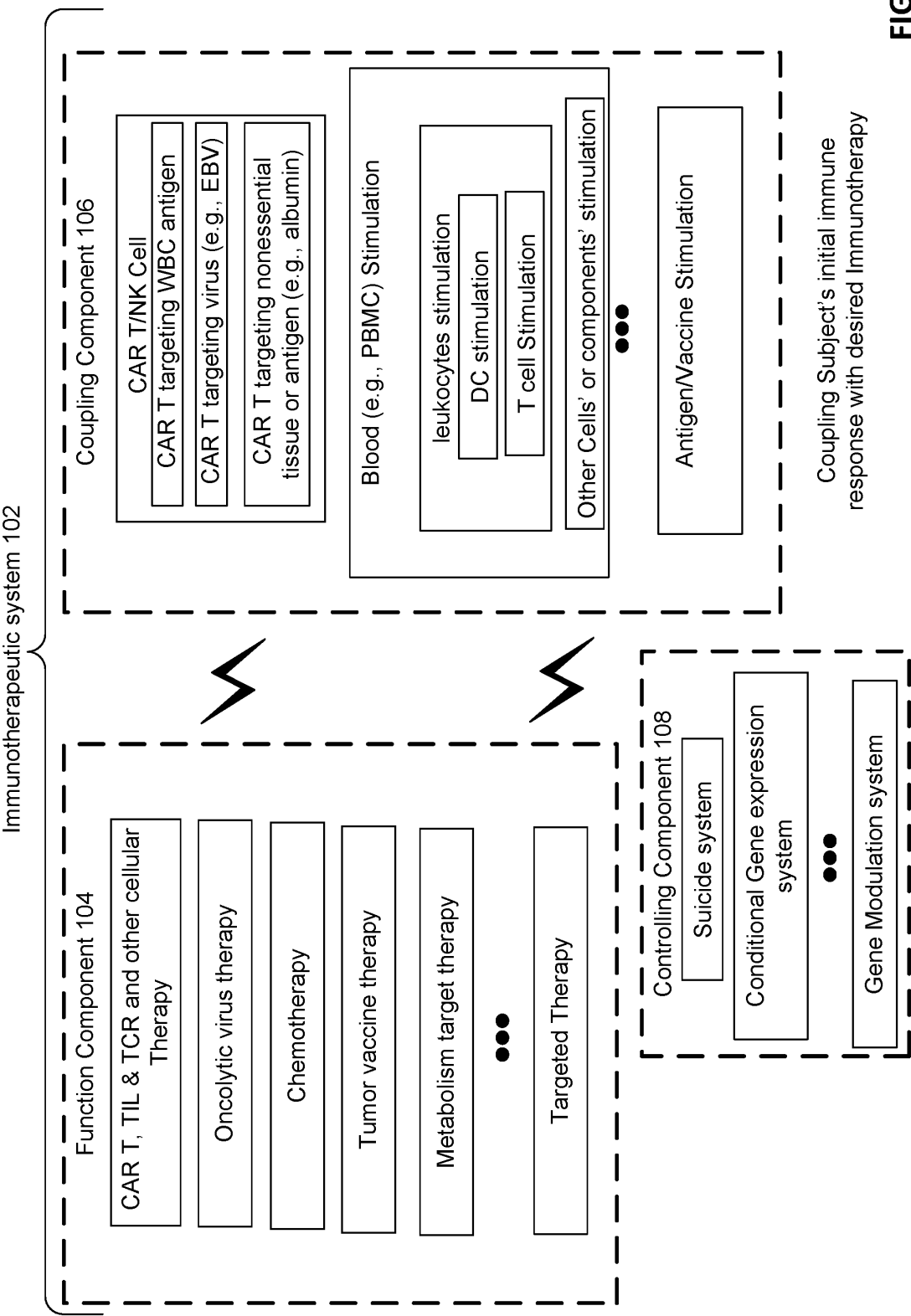
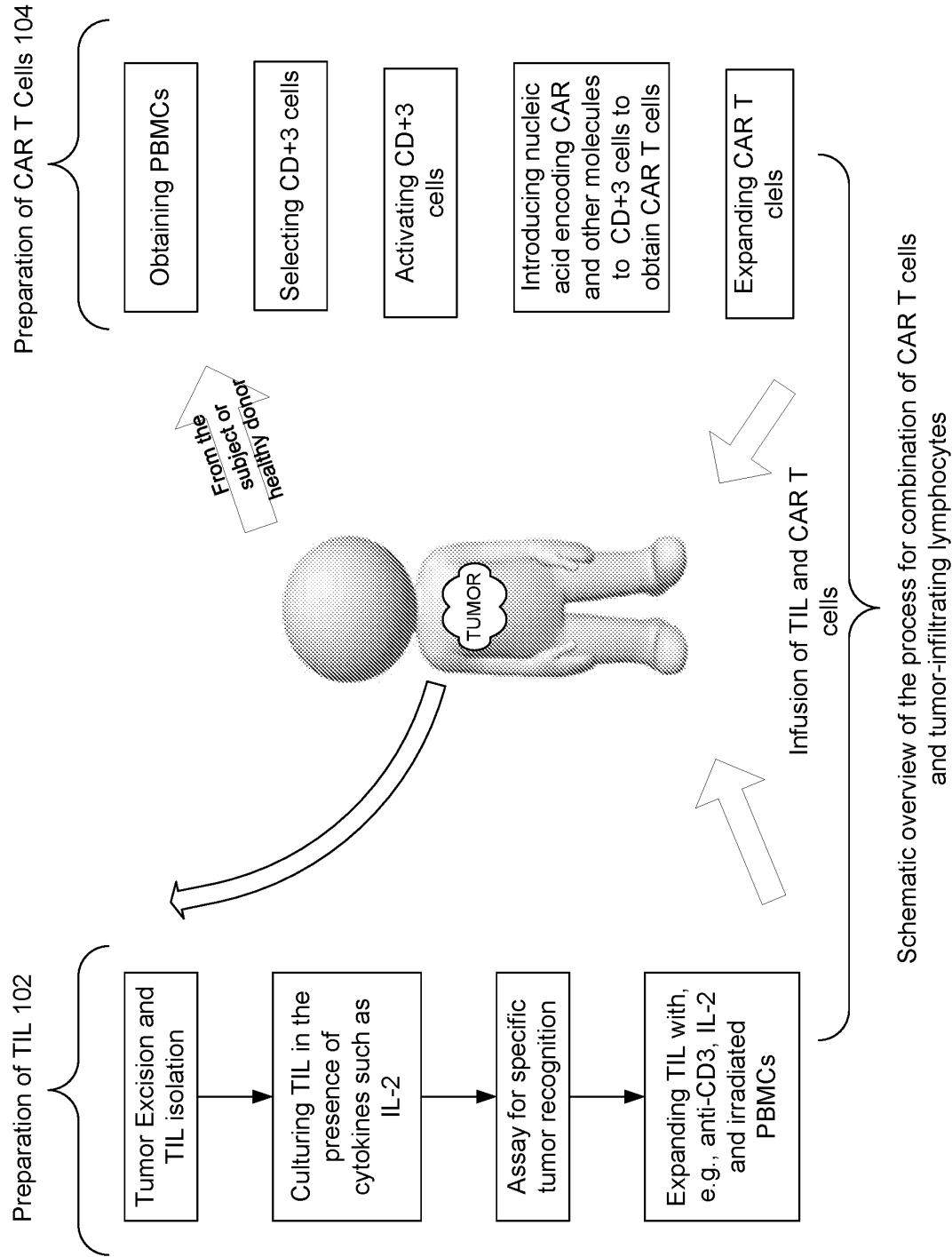


FIG. 61



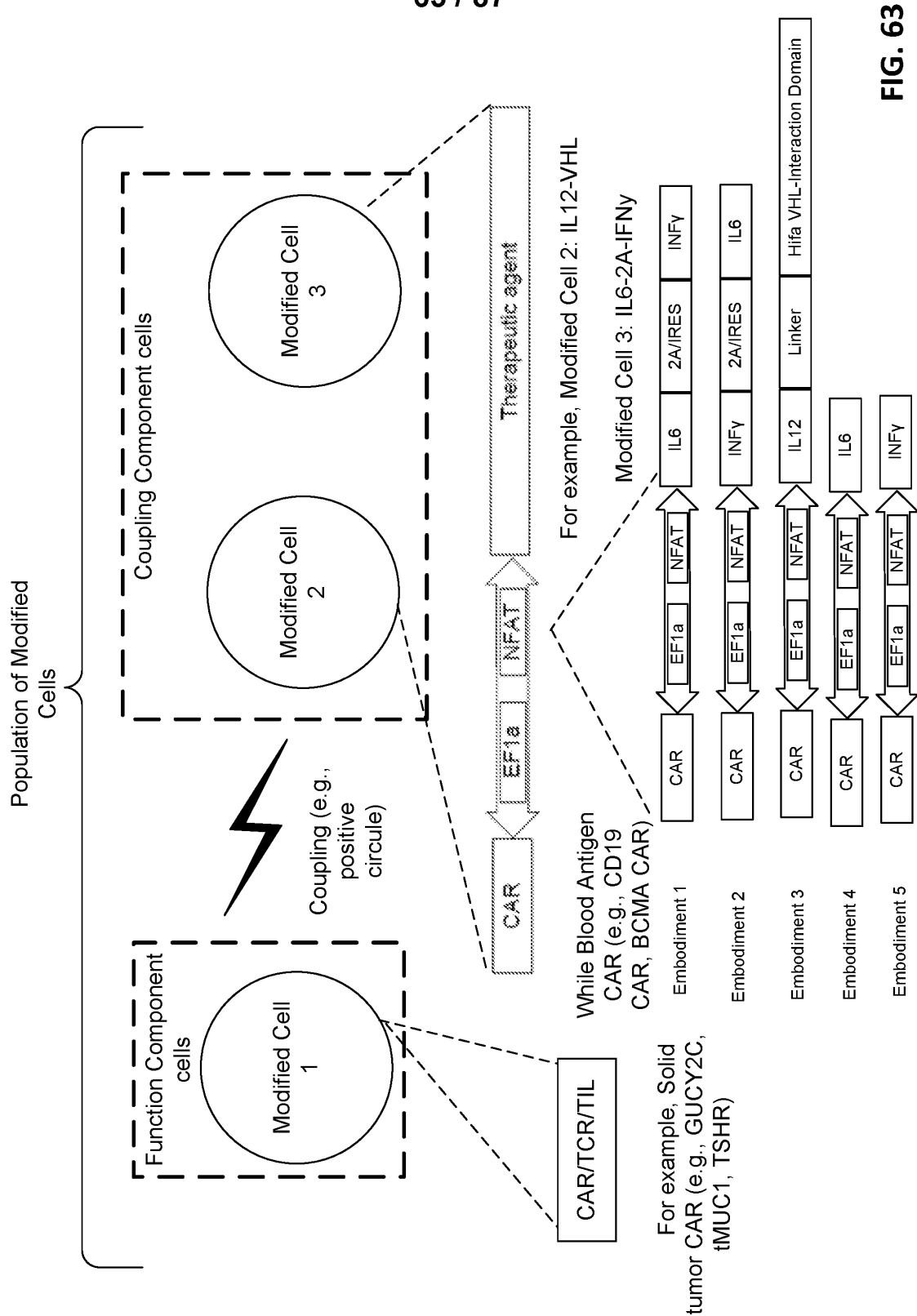


FIG. 63

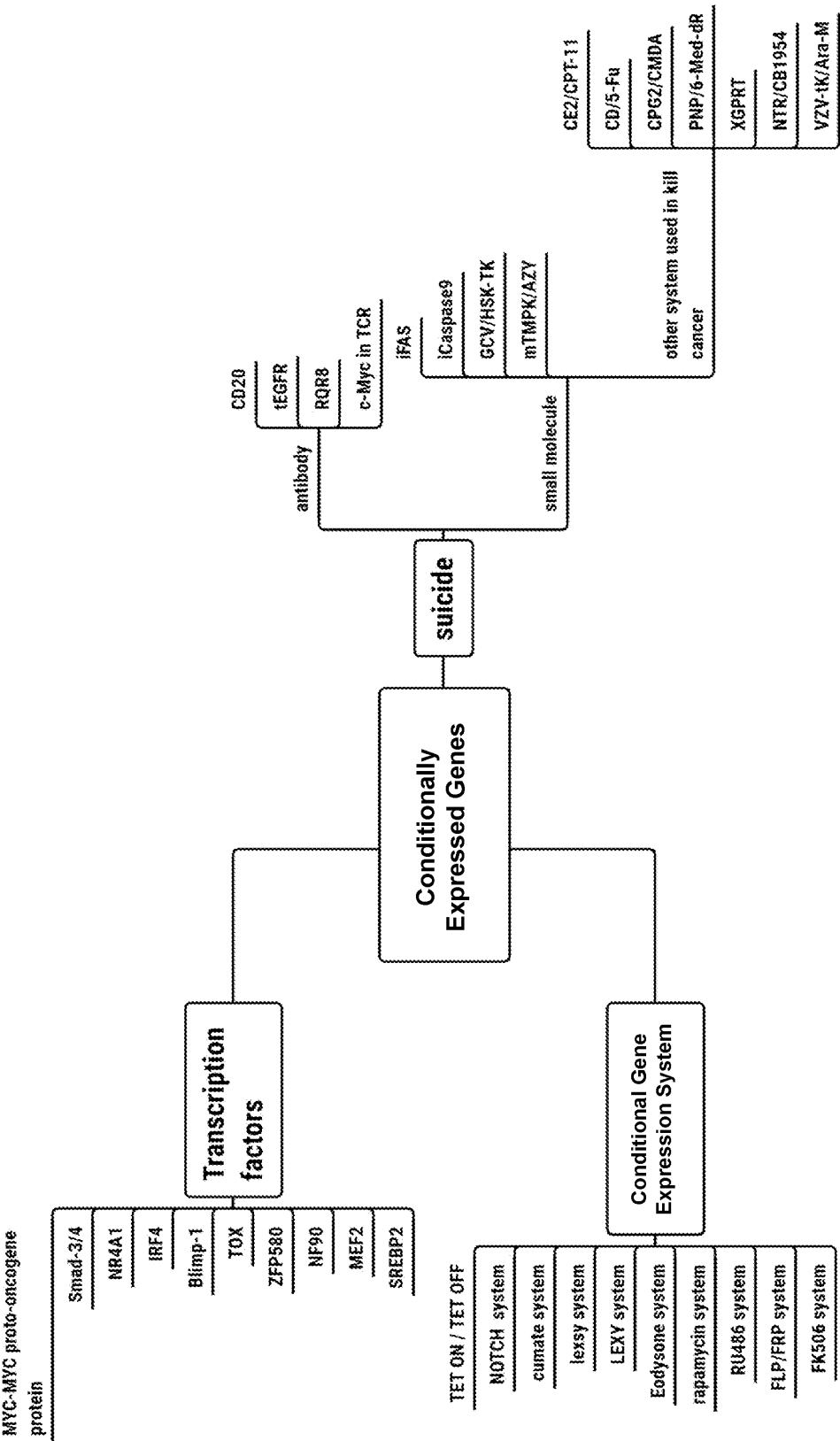
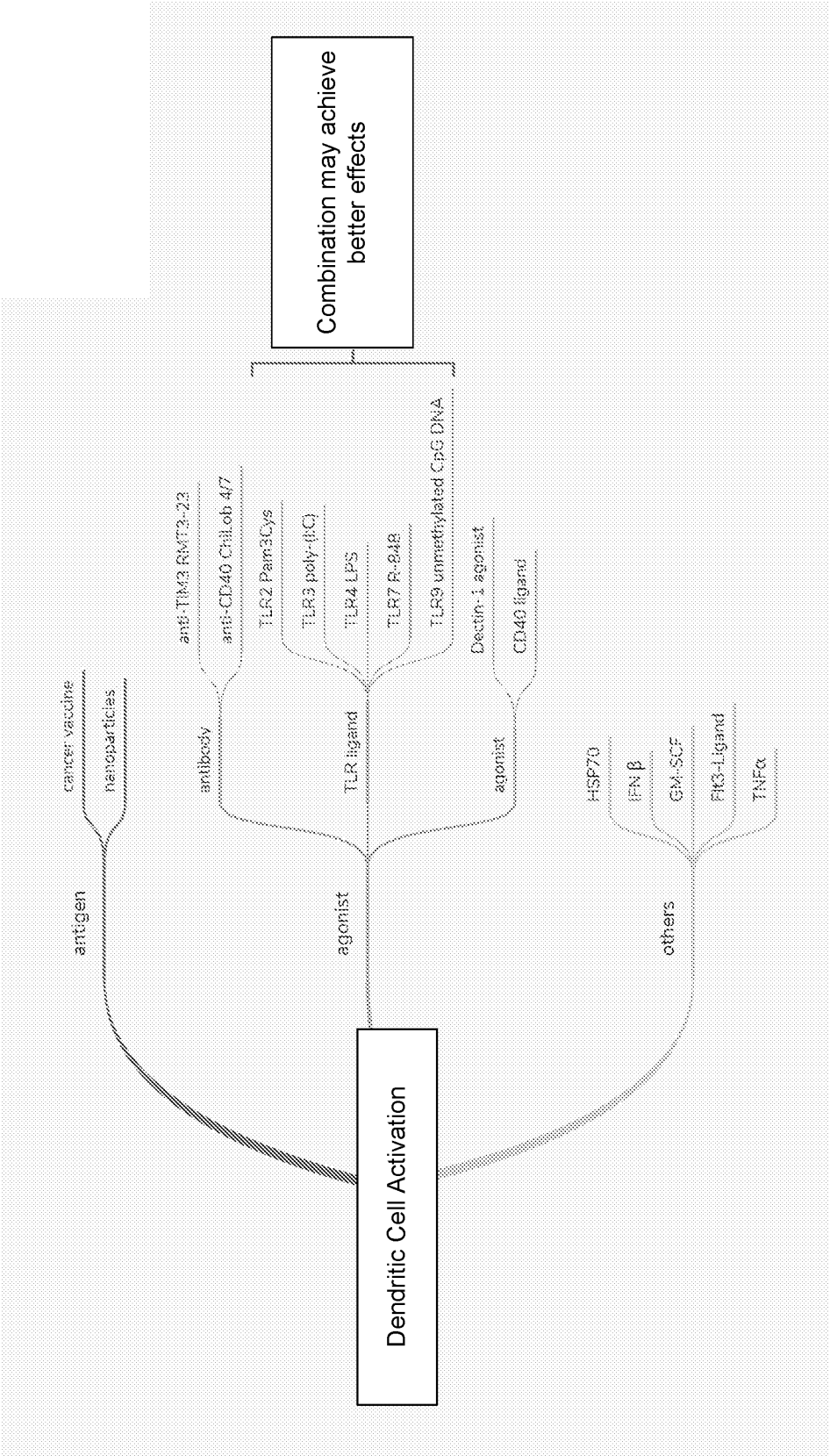


FIG. 64

FIG. 65



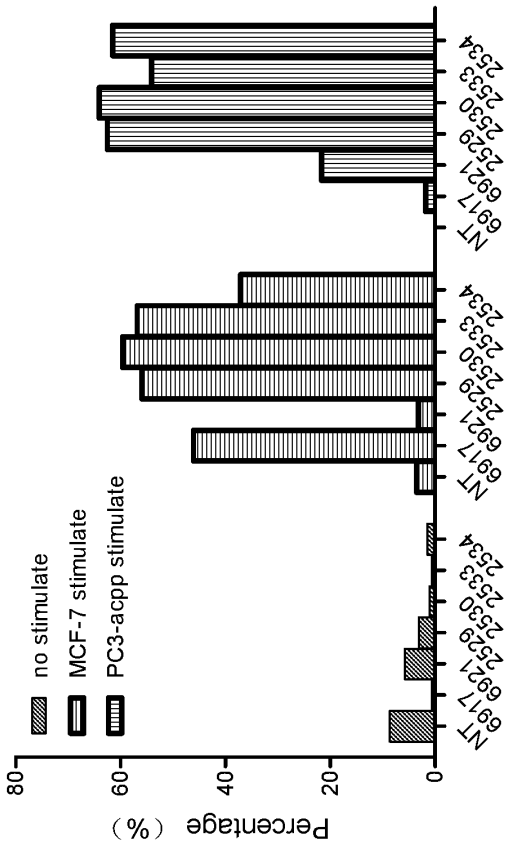
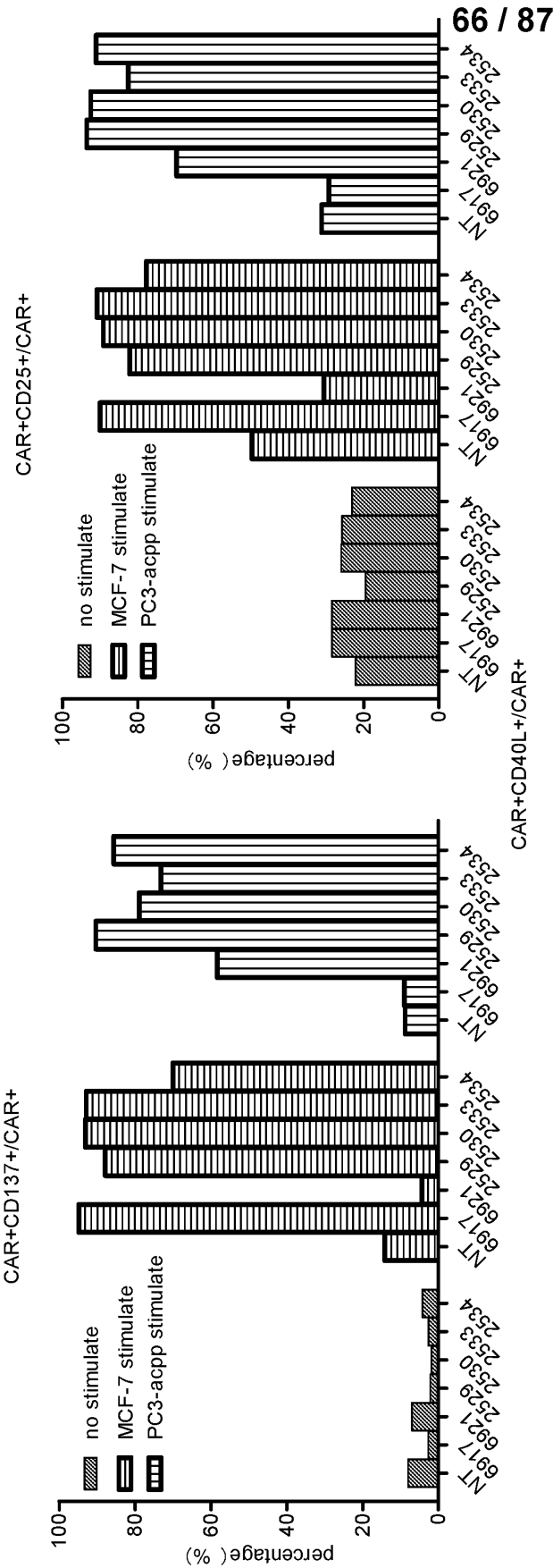


FIG. 66

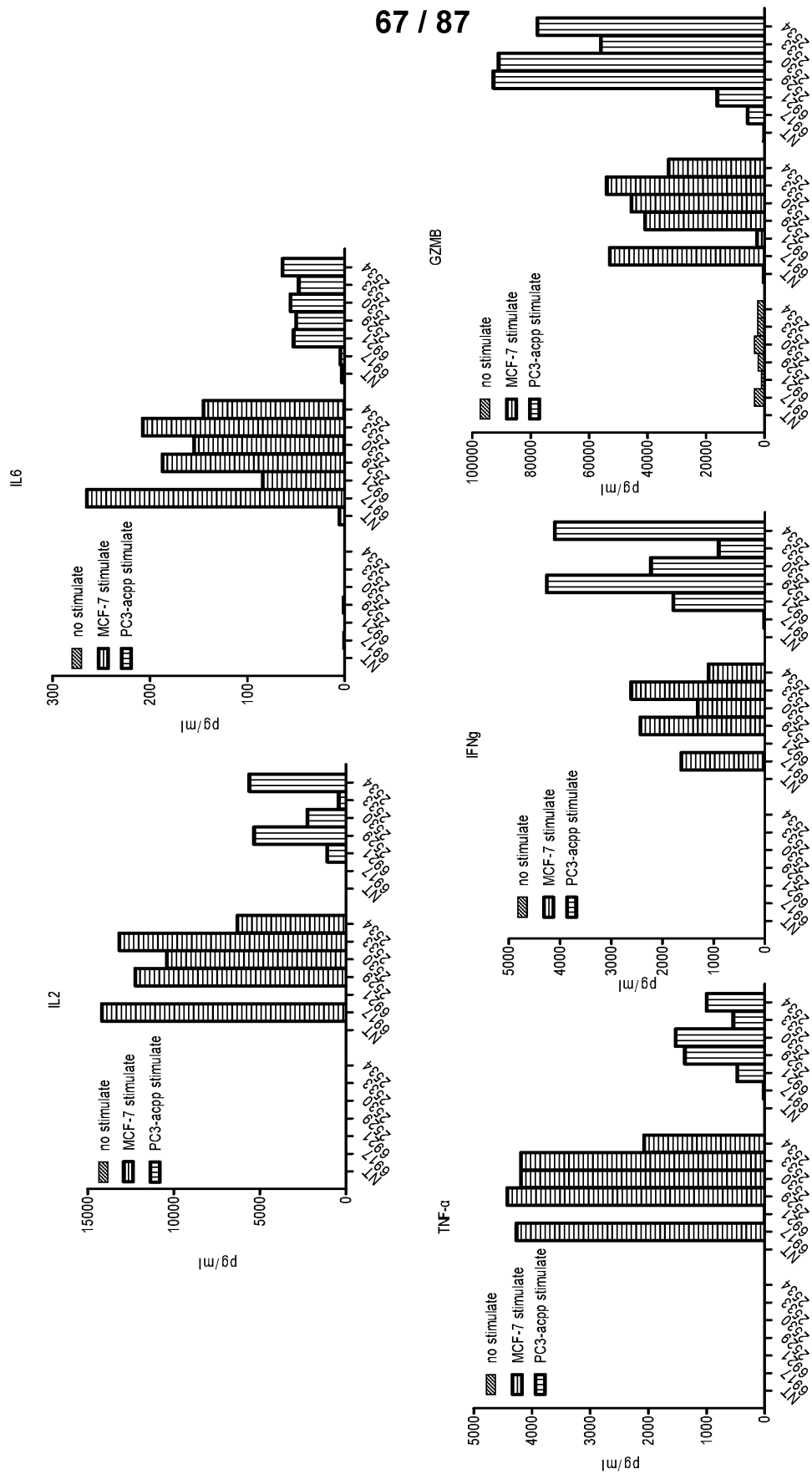


FIG. 67

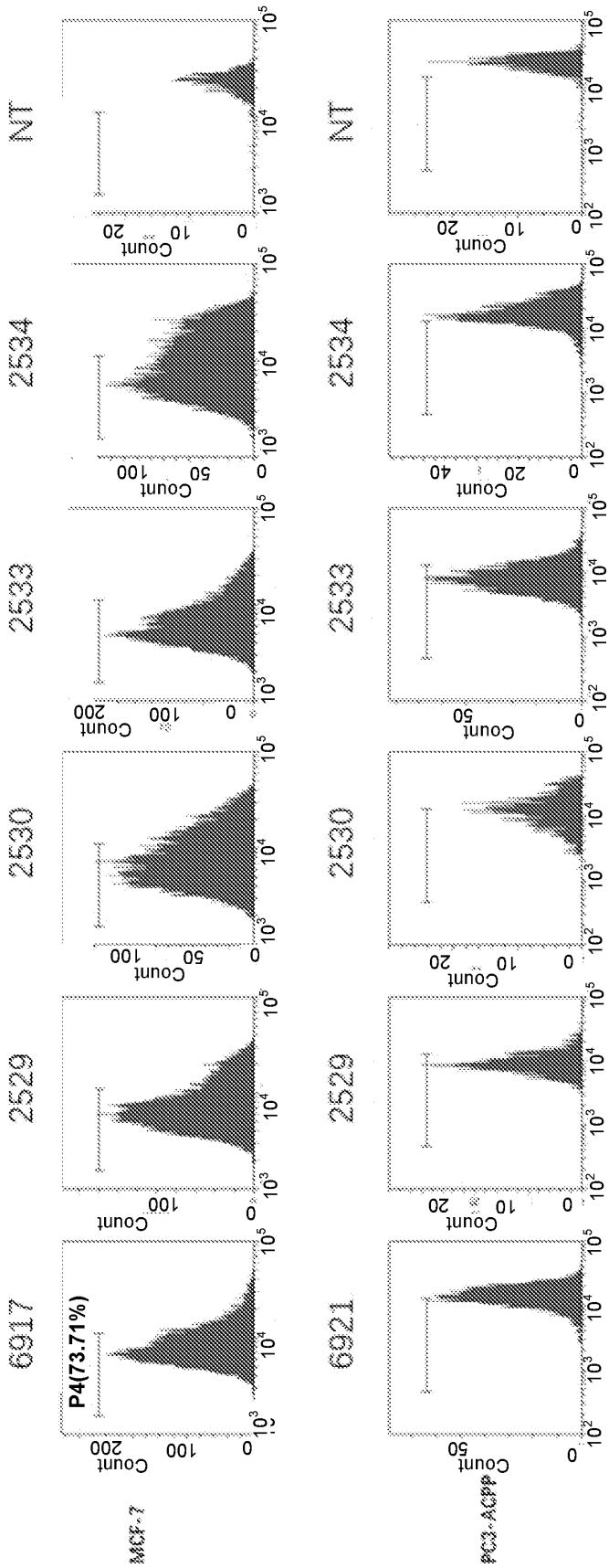
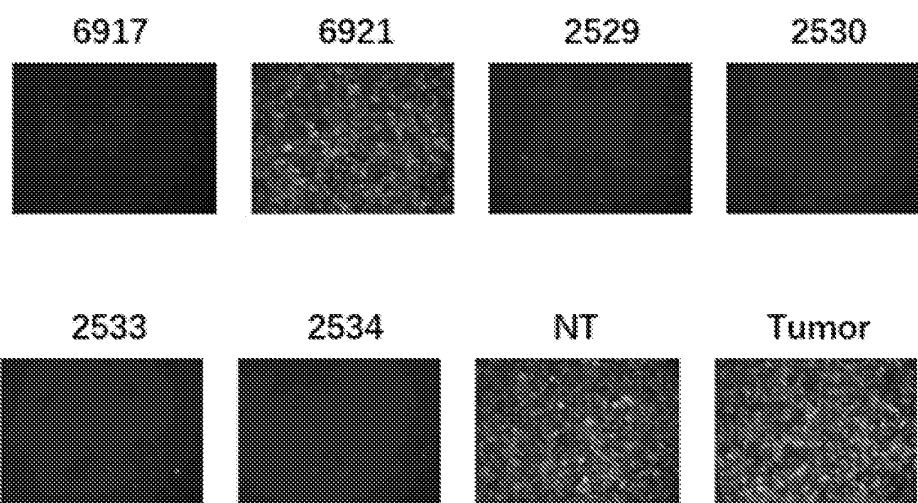


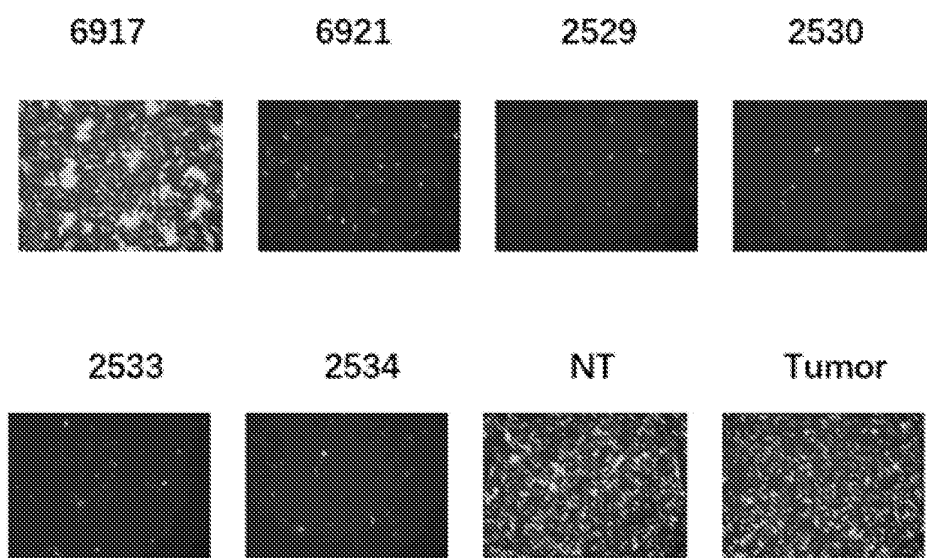
FIG. 68

69 / 87

MCF-7



PC3-ACPP



Objective lens multiple 10X
Day5

FIG. 69

FIG. 70

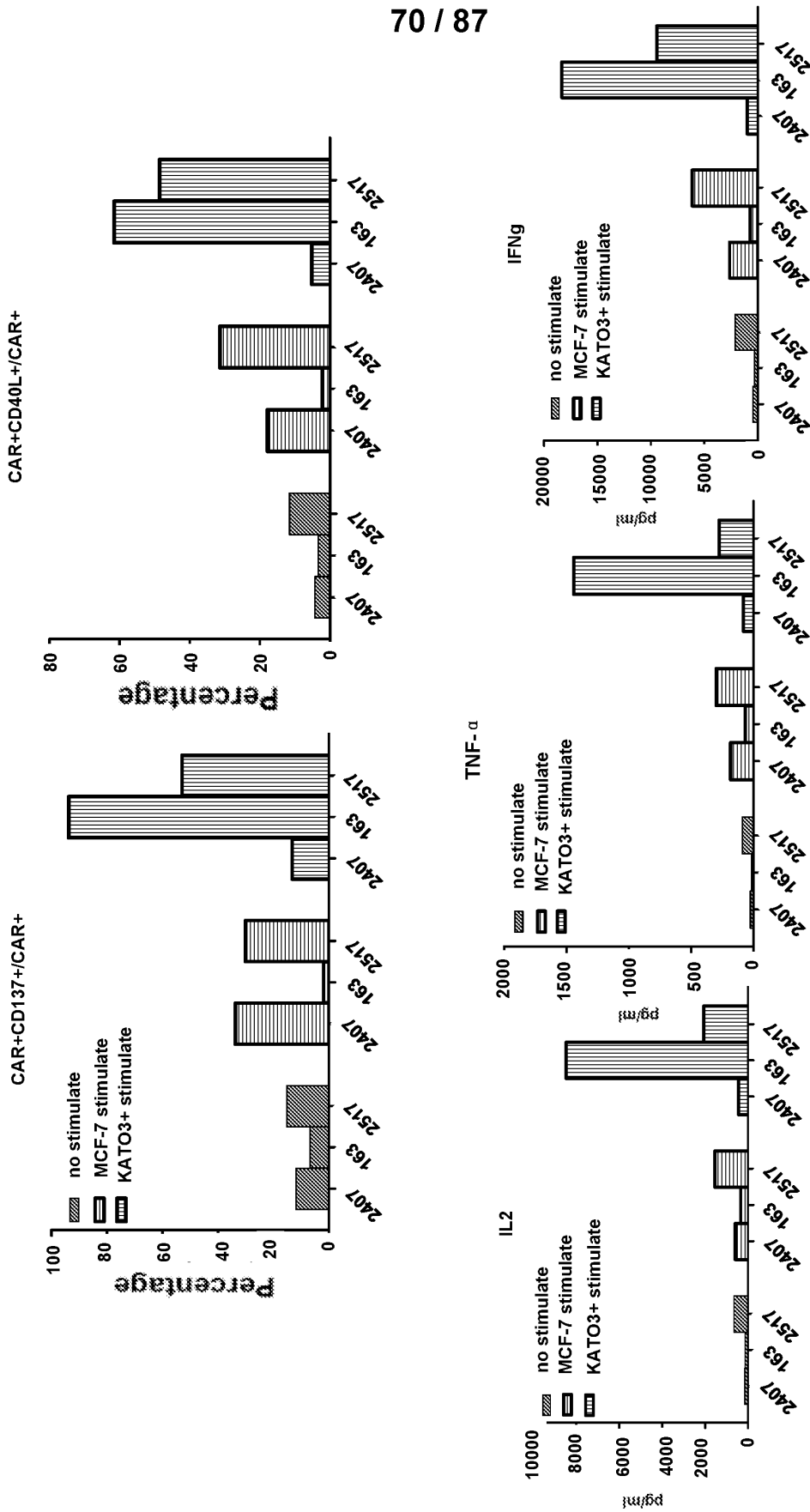
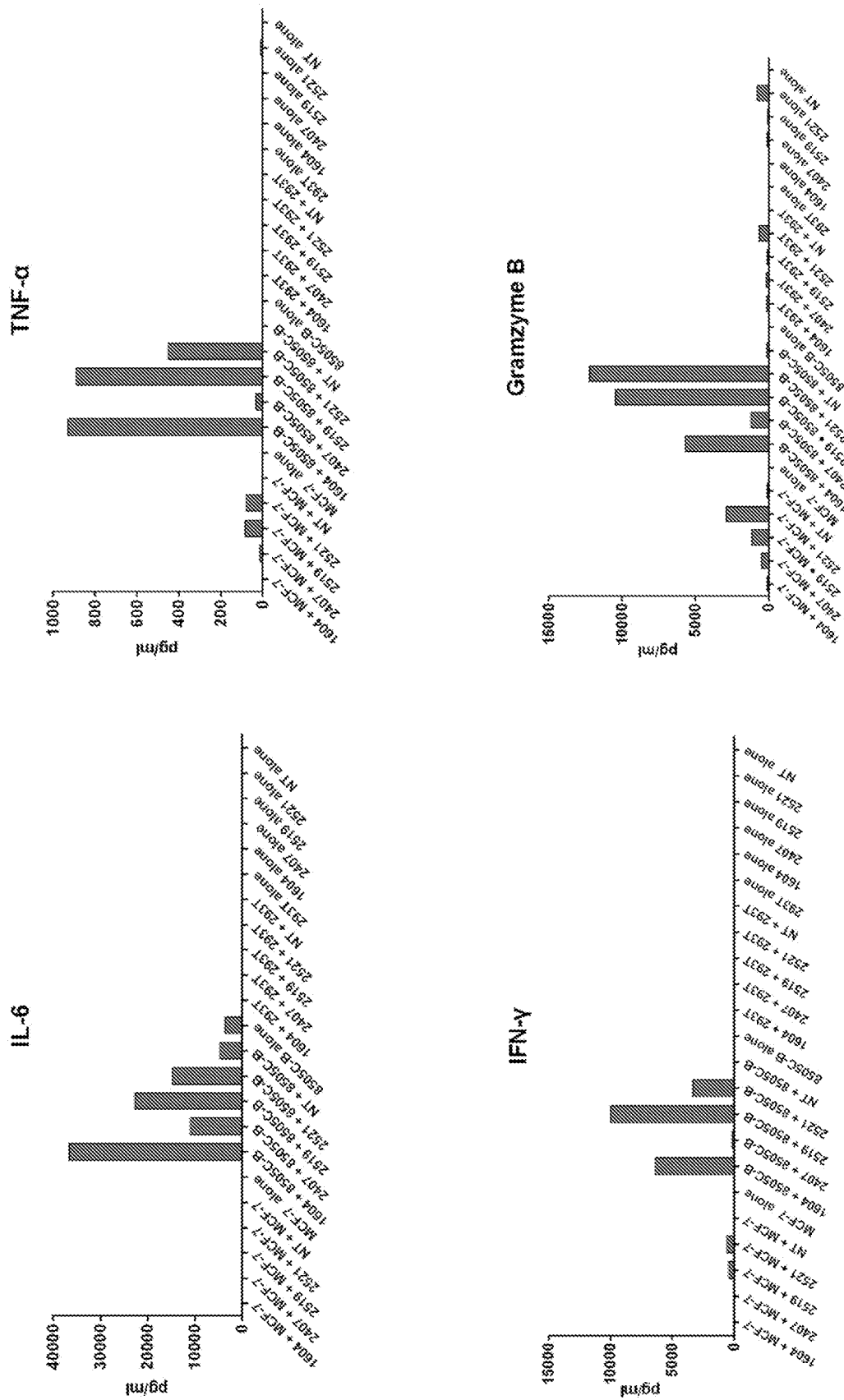
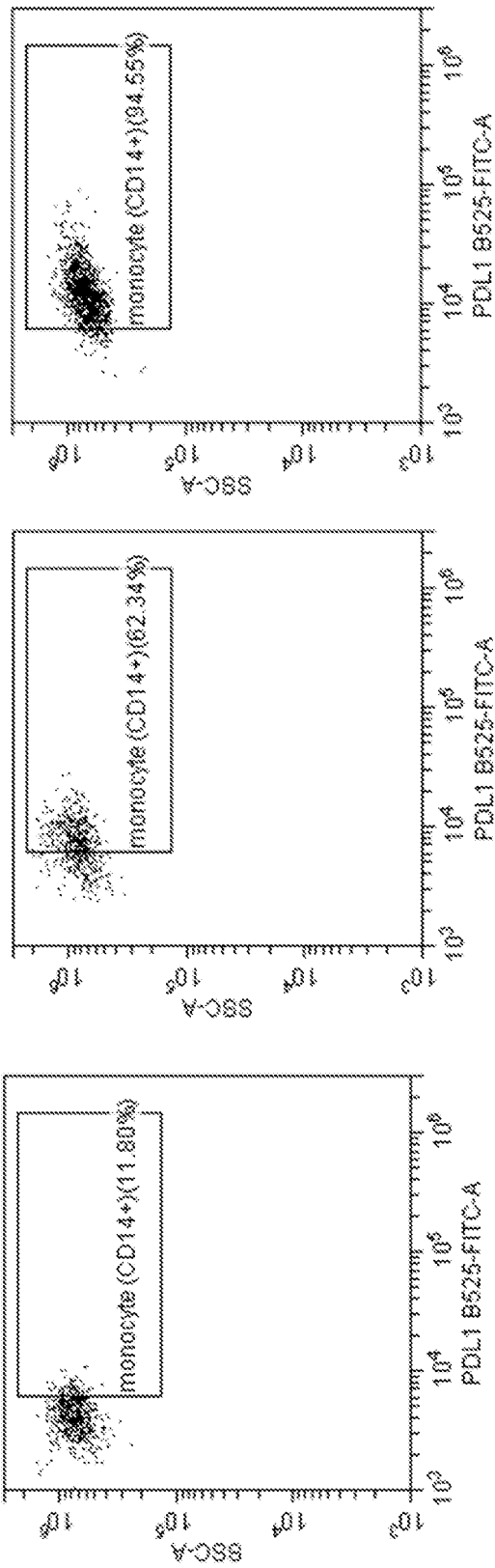


FIG. 71





Day 4

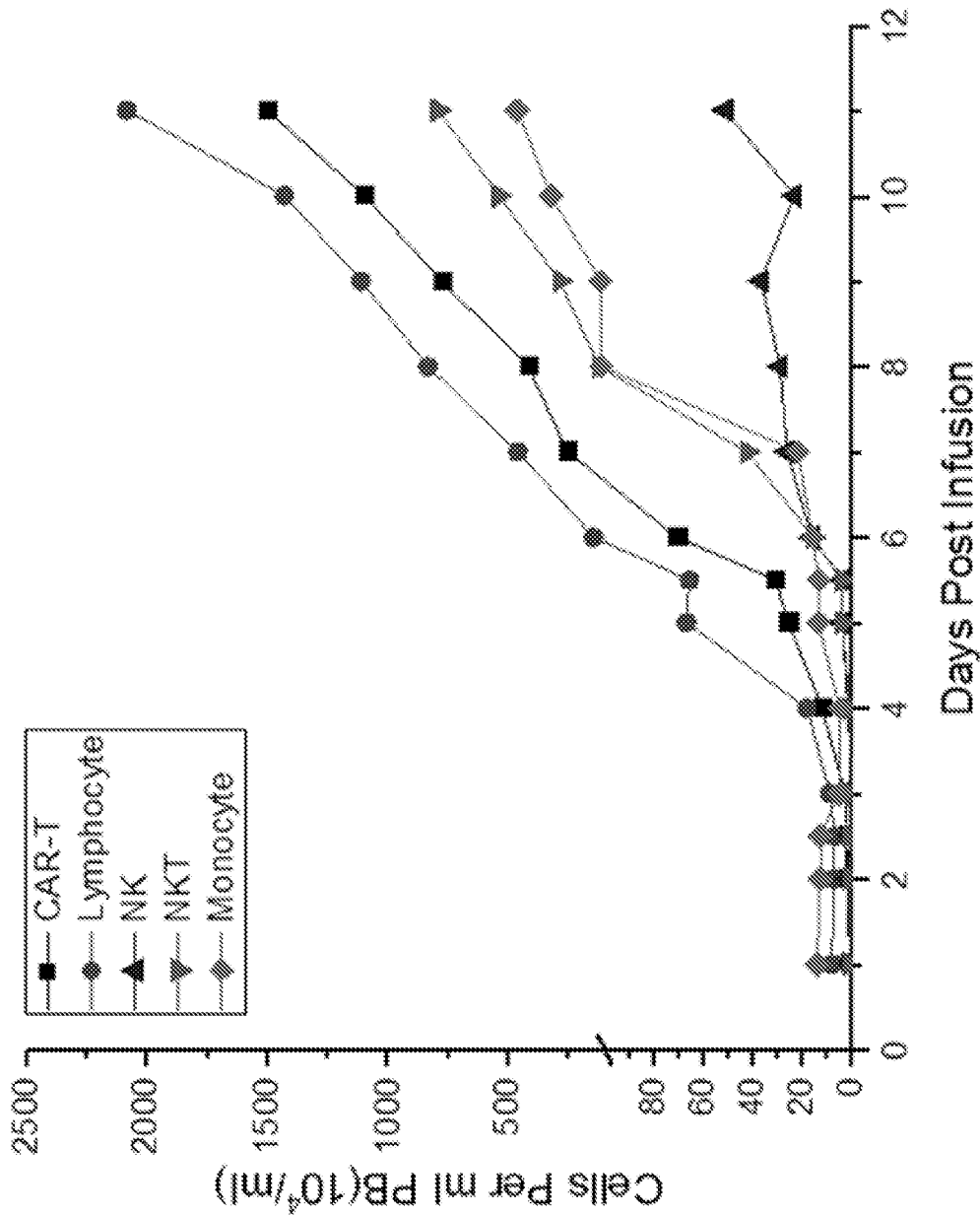
Day 1

Day 0

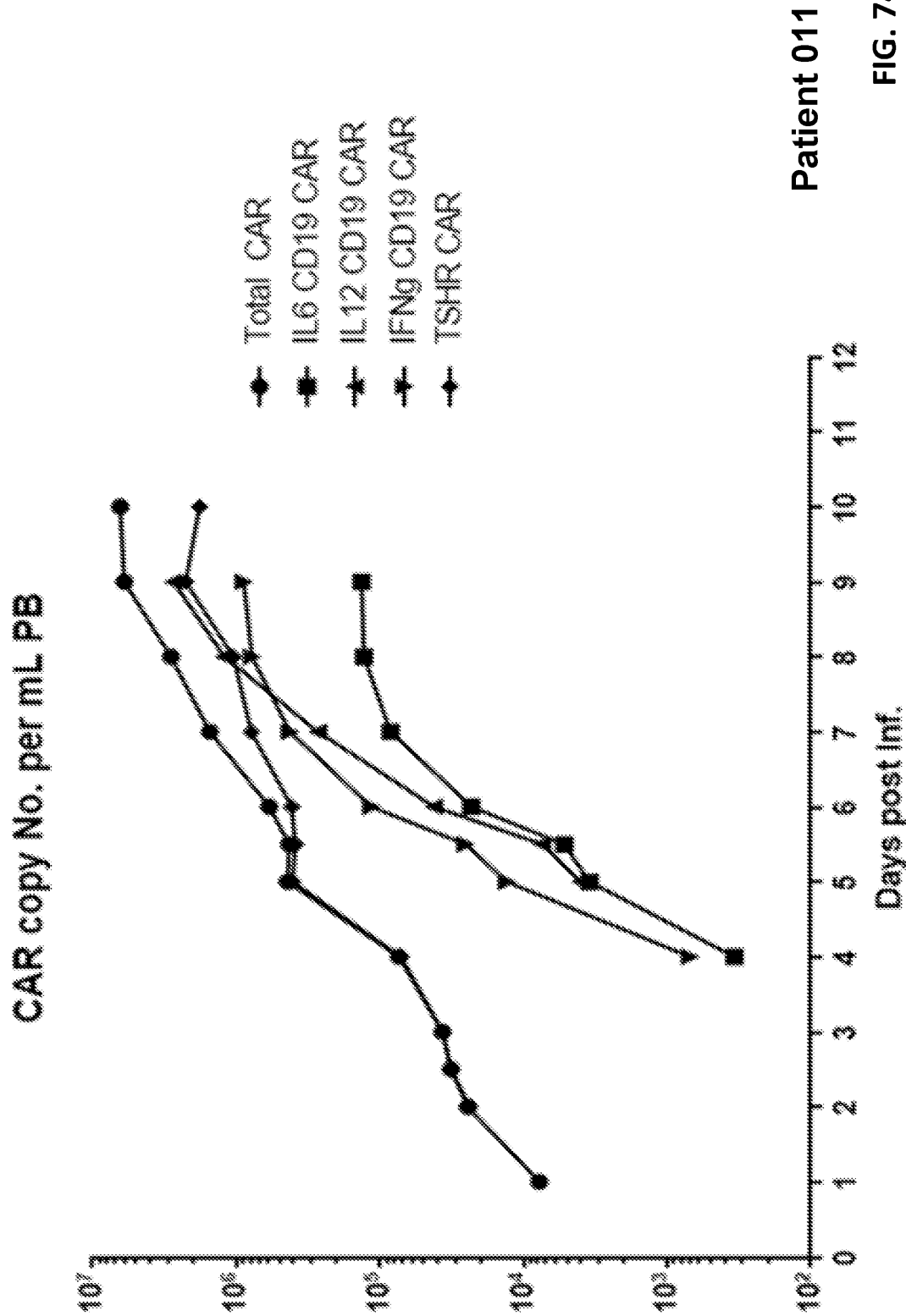
Patient 009

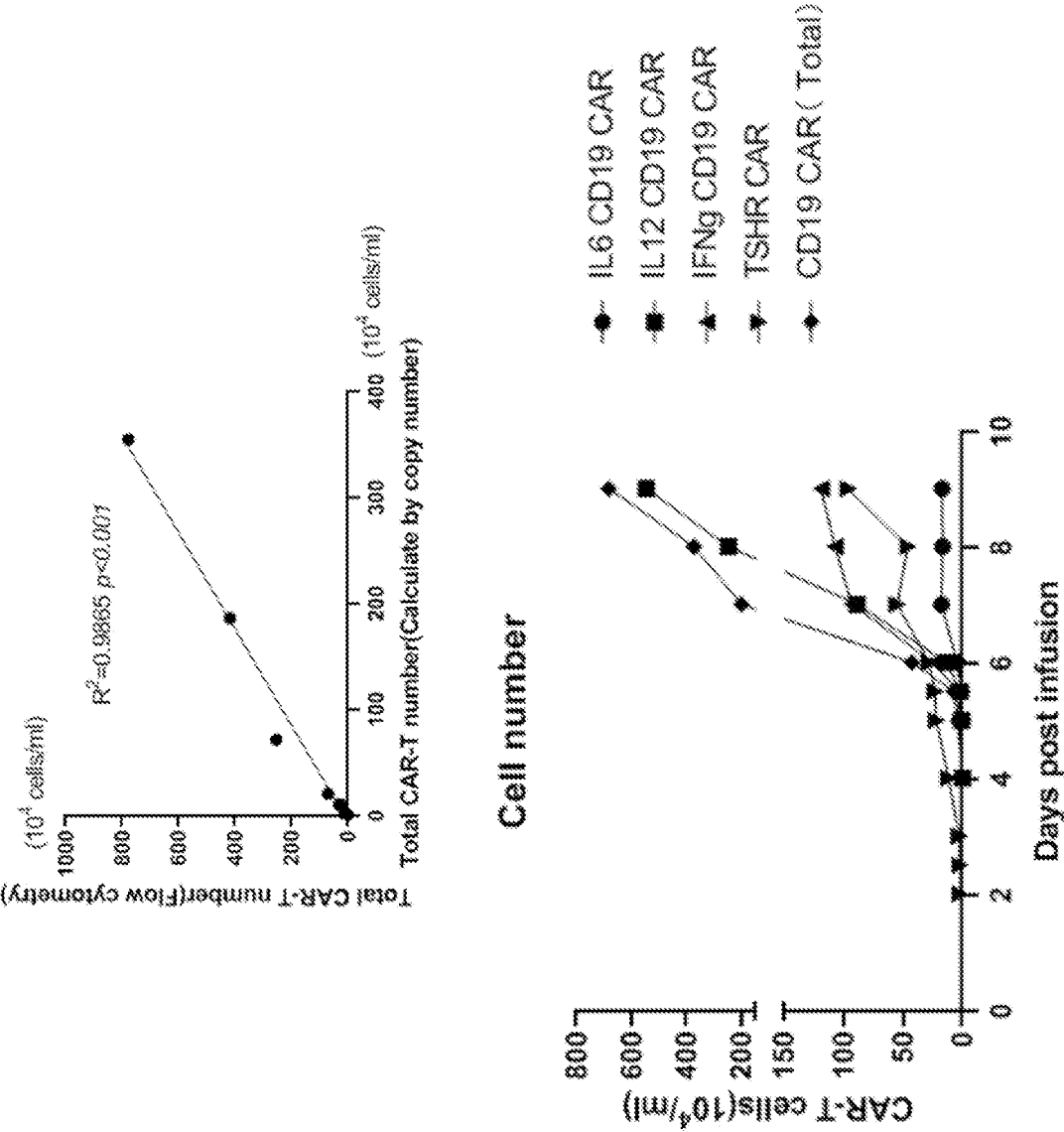
FIG. 72

FIG. 73



Patient 011





Patient 011
FIG. 75

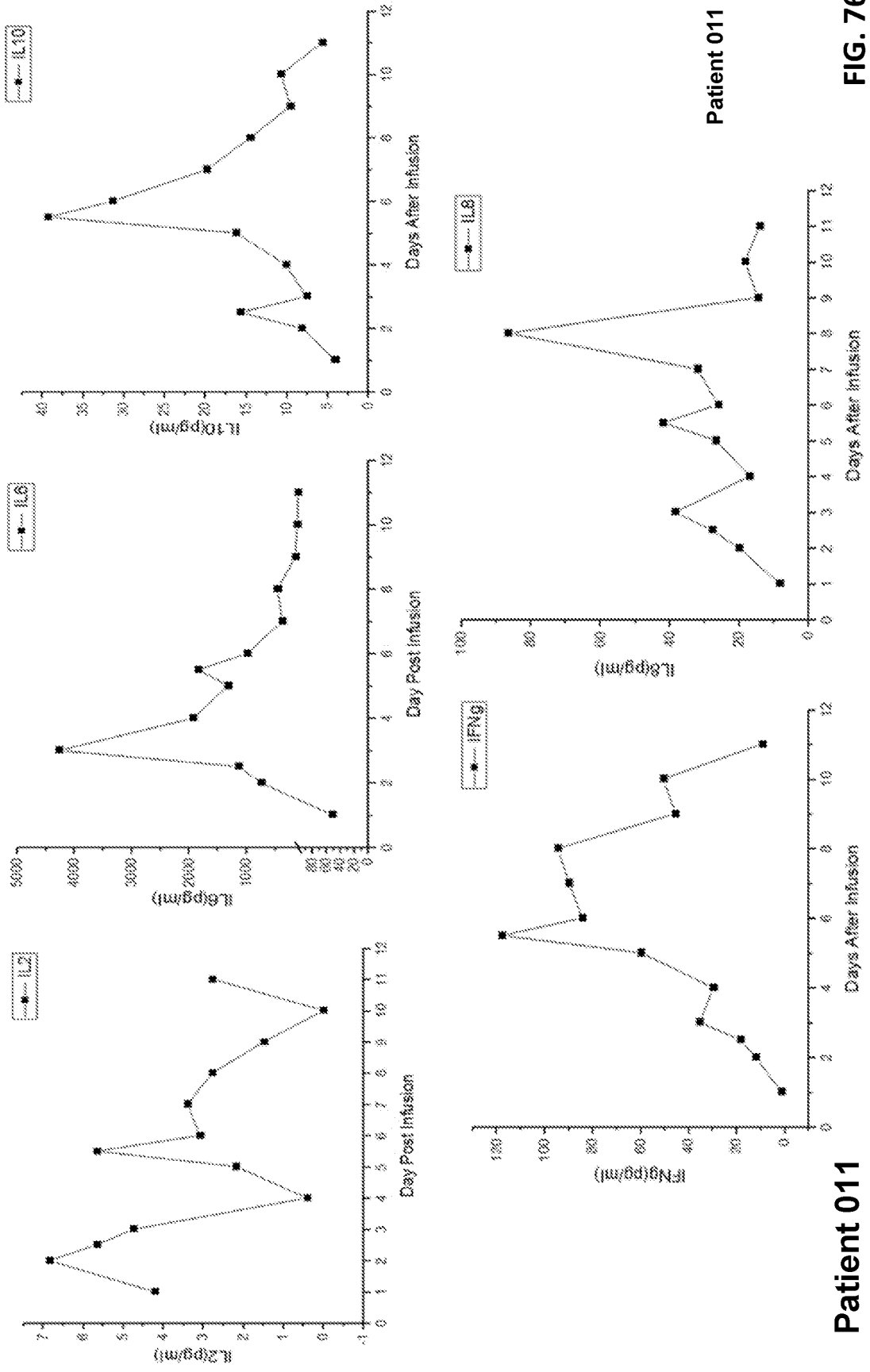


FIG. 76

Patient 011

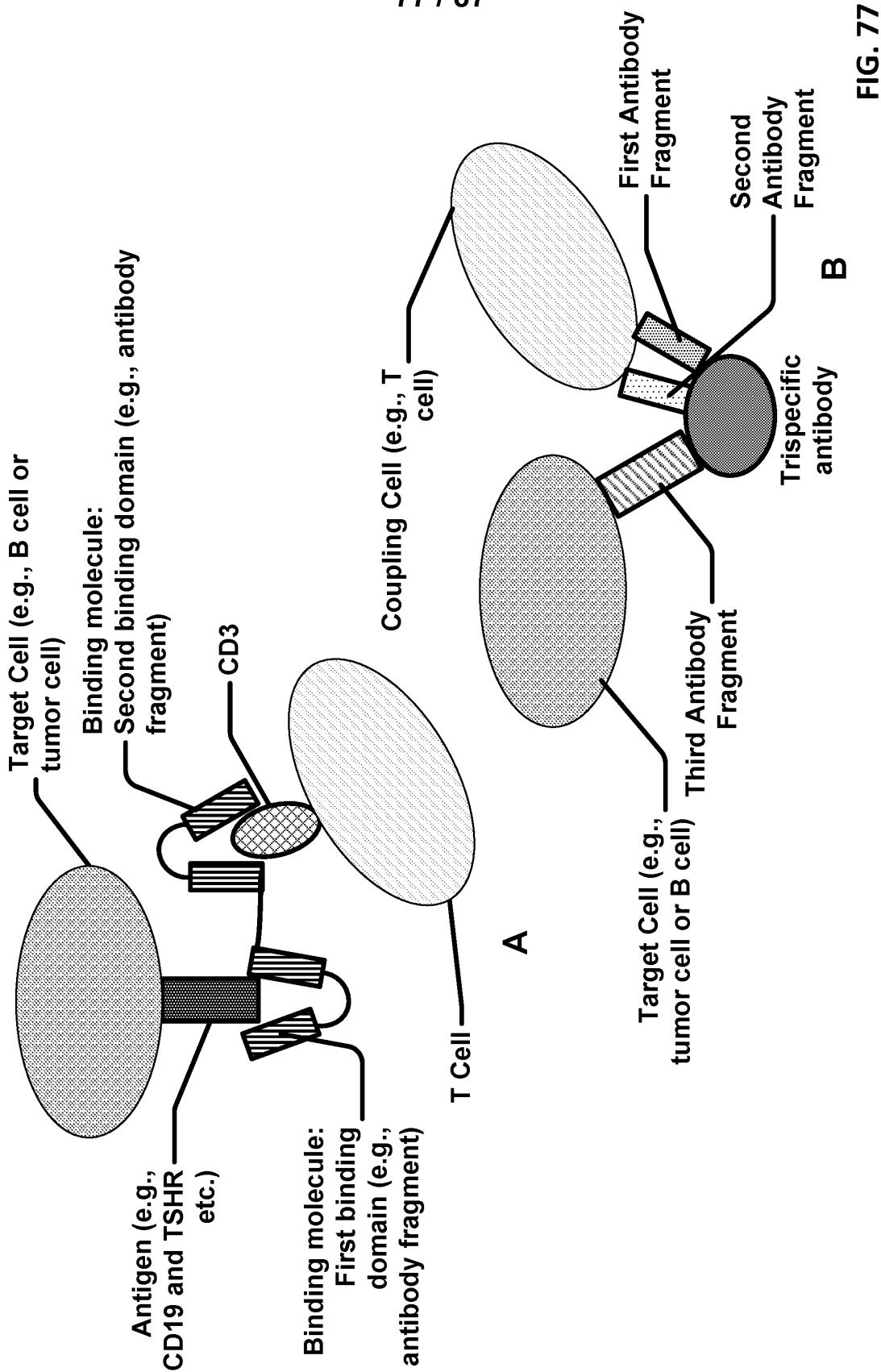
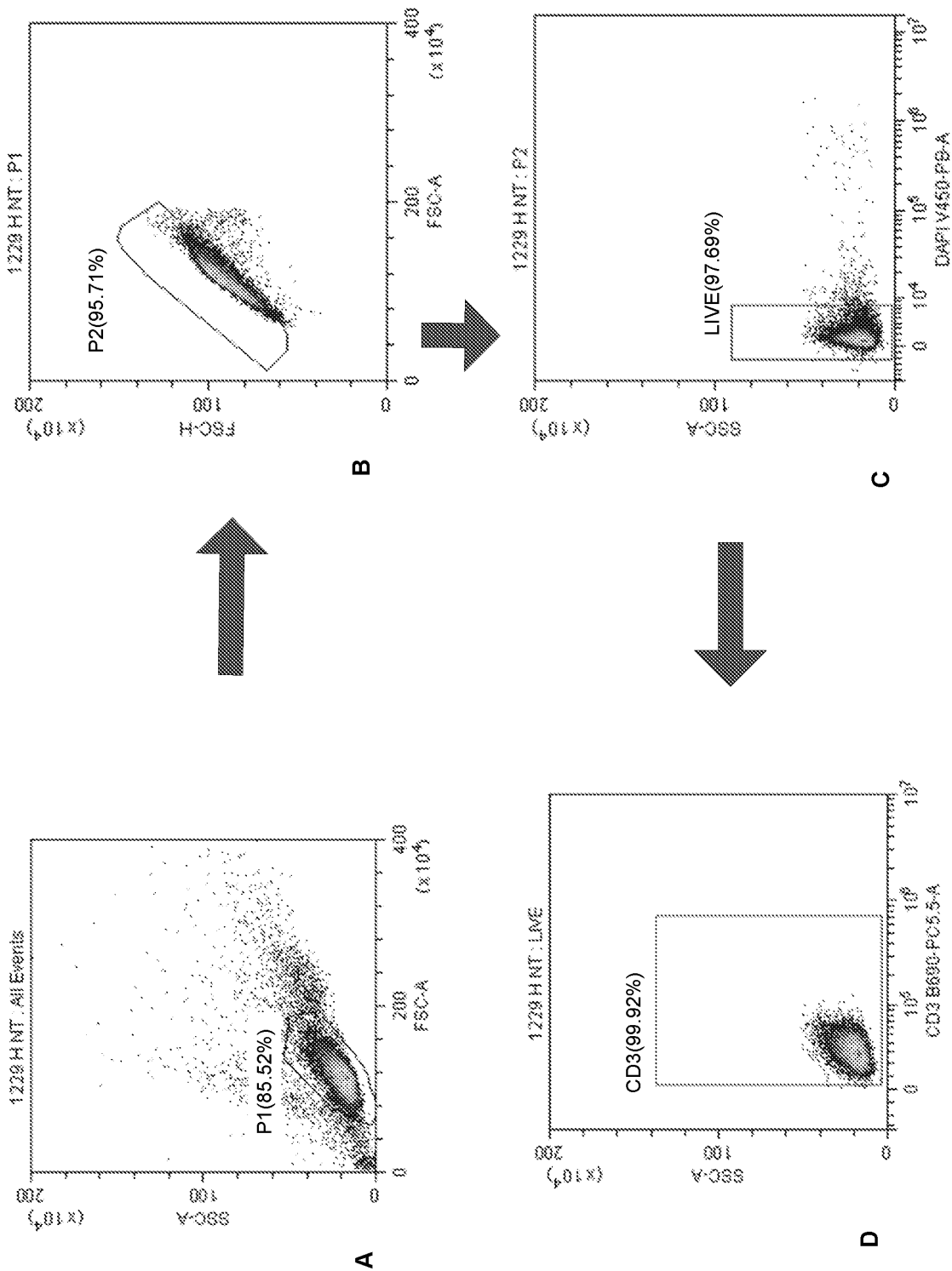


FIG. 77

FIG. 78



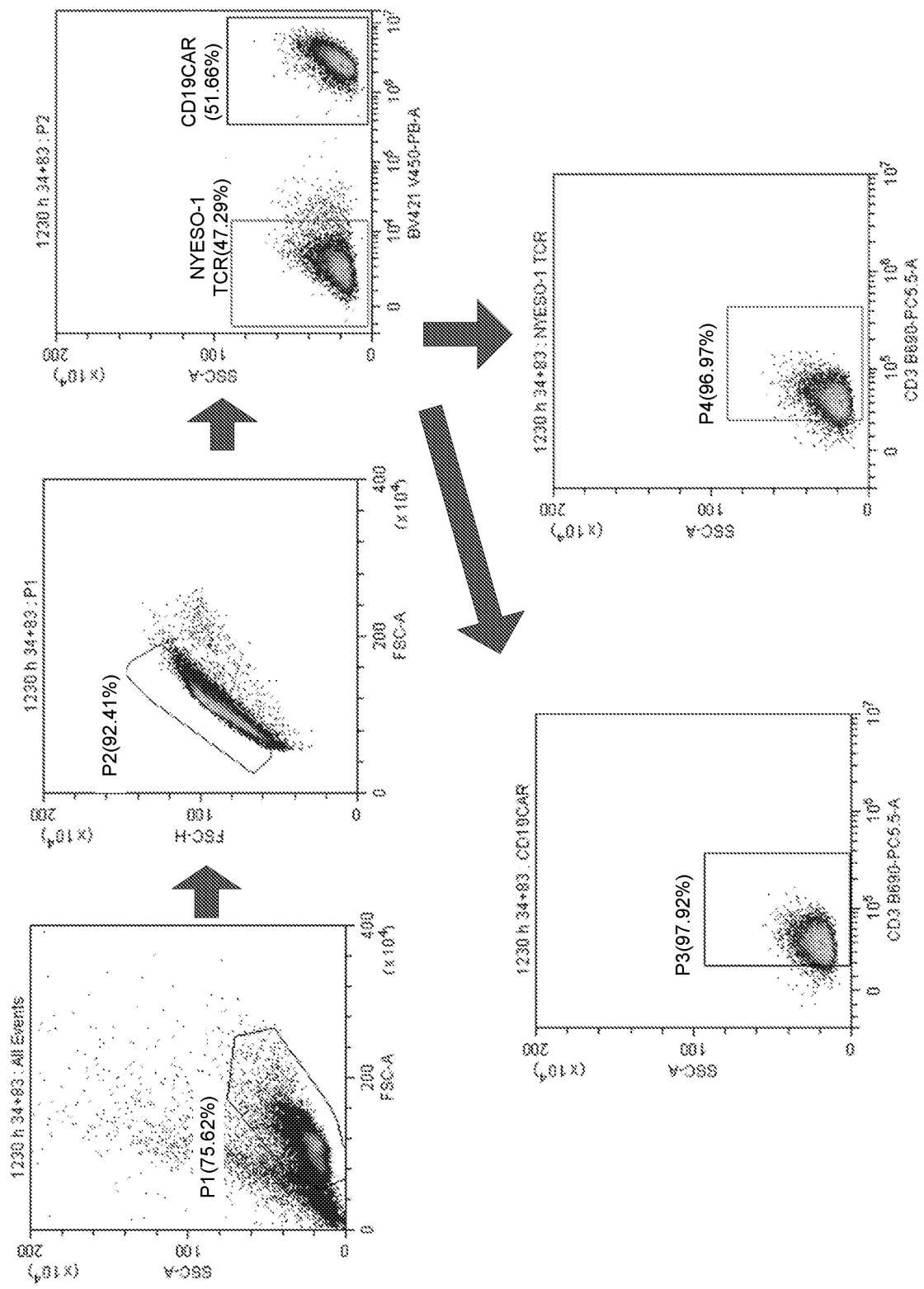


FIG. 80

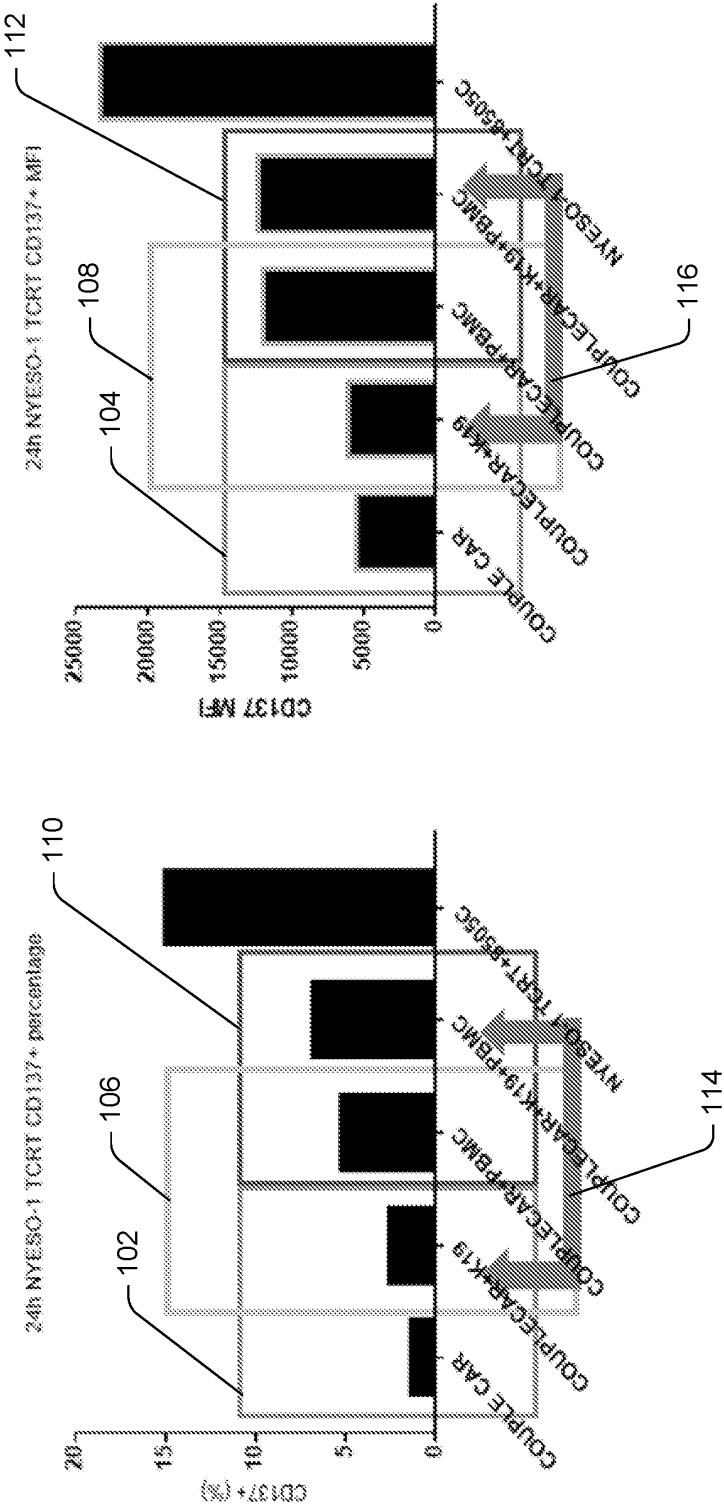
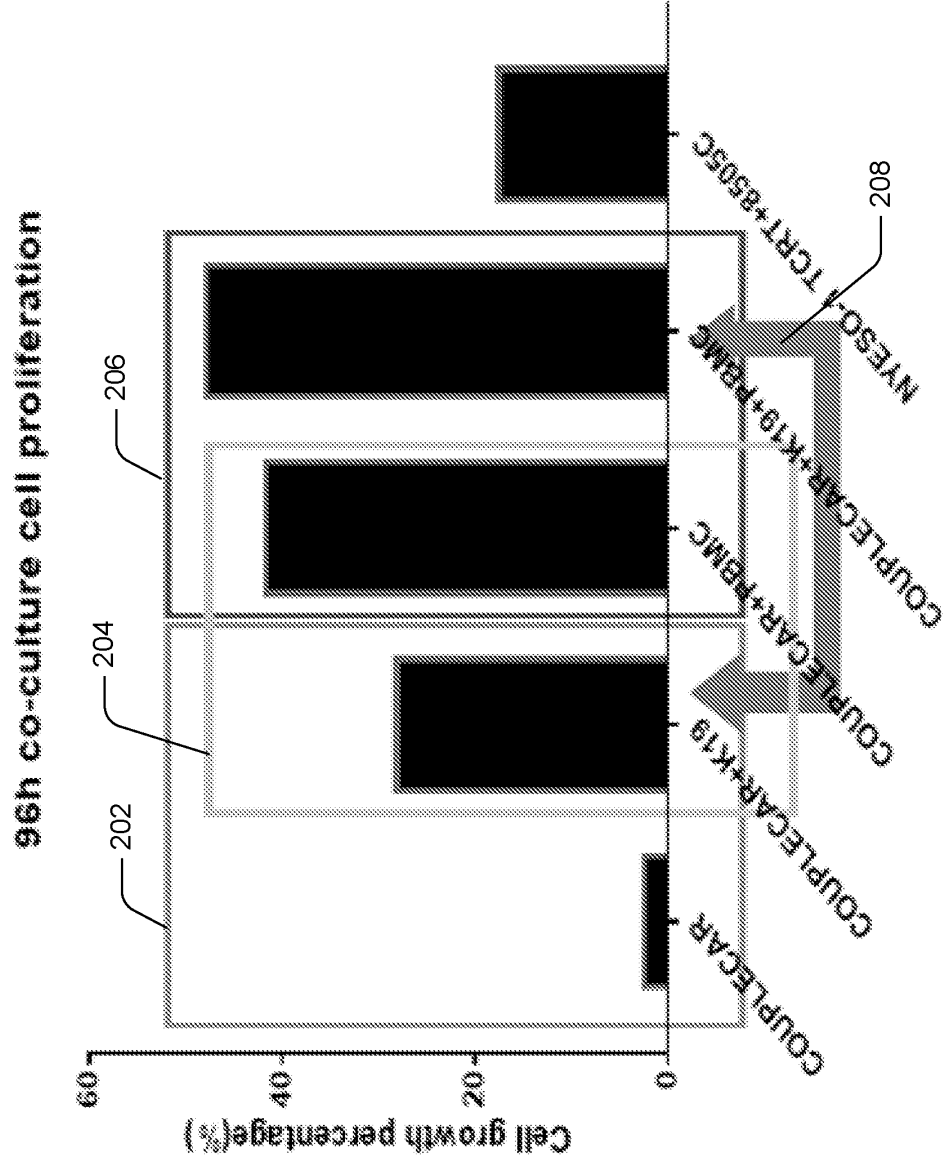


FIG. 81



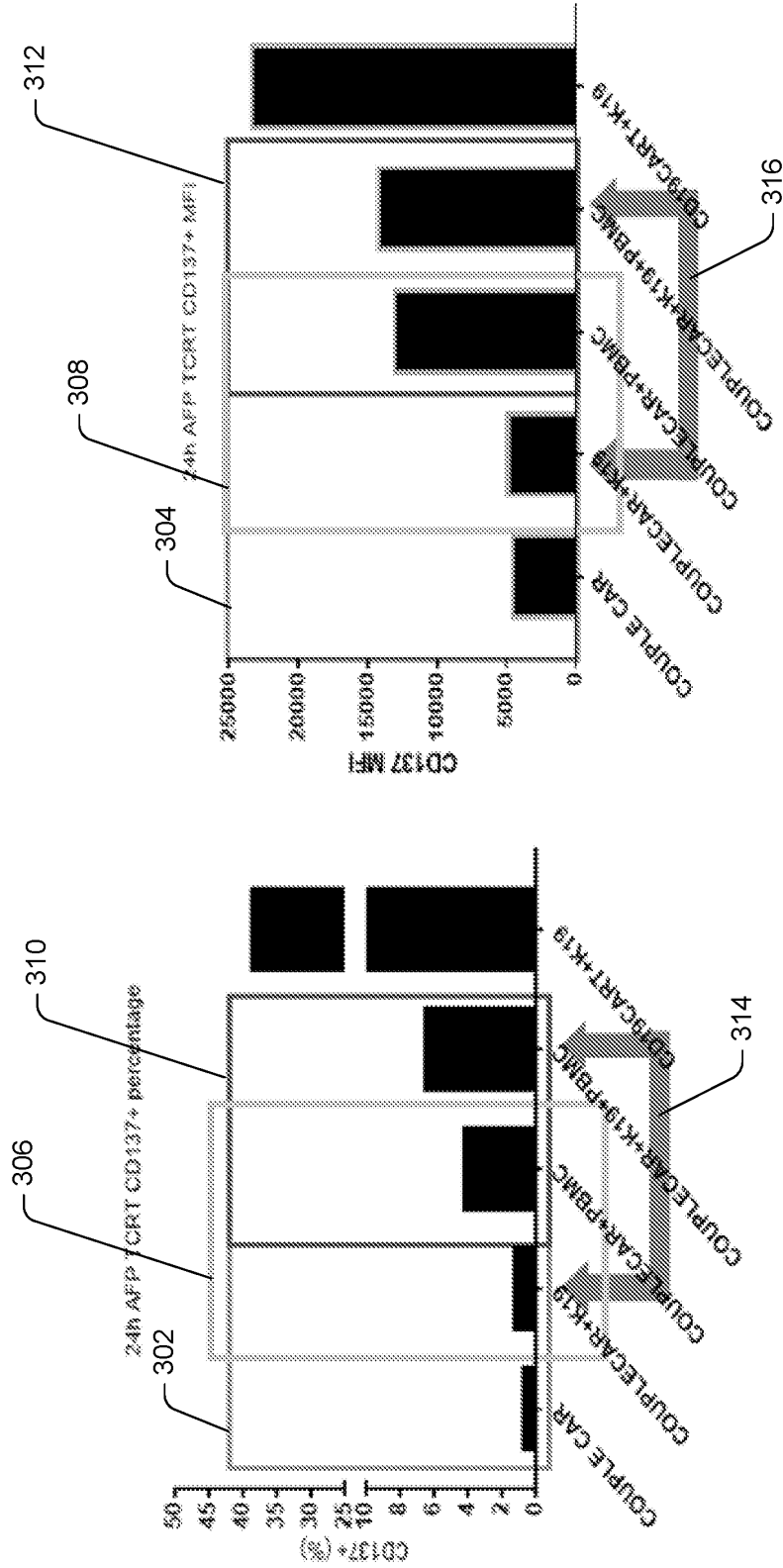
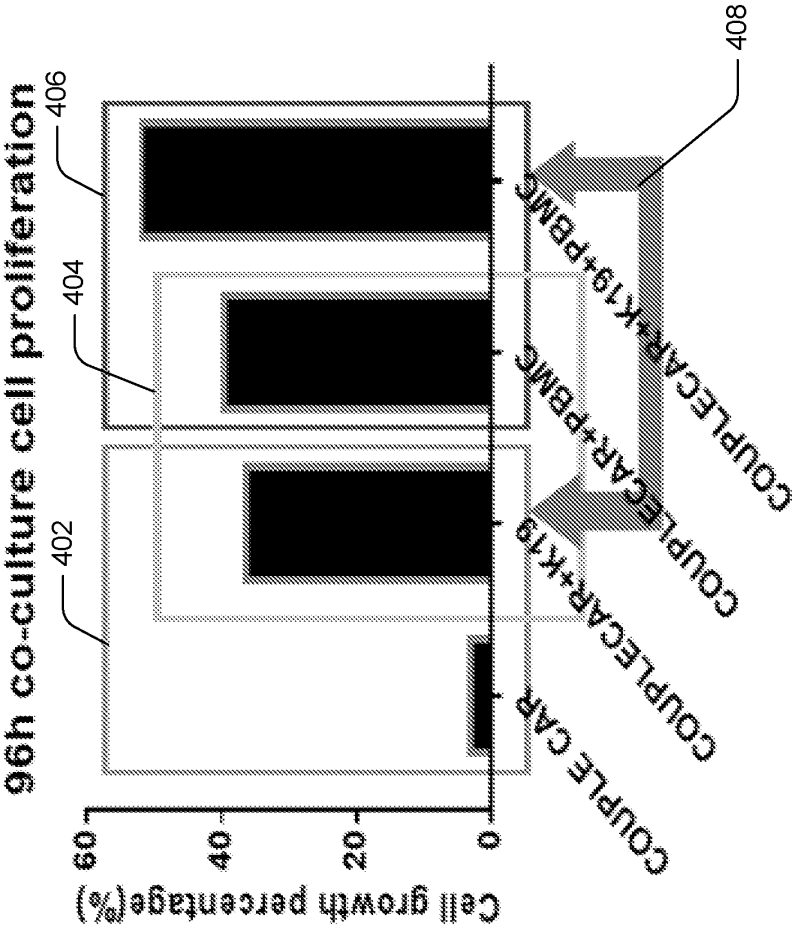


FIG. 82

FIG. 83



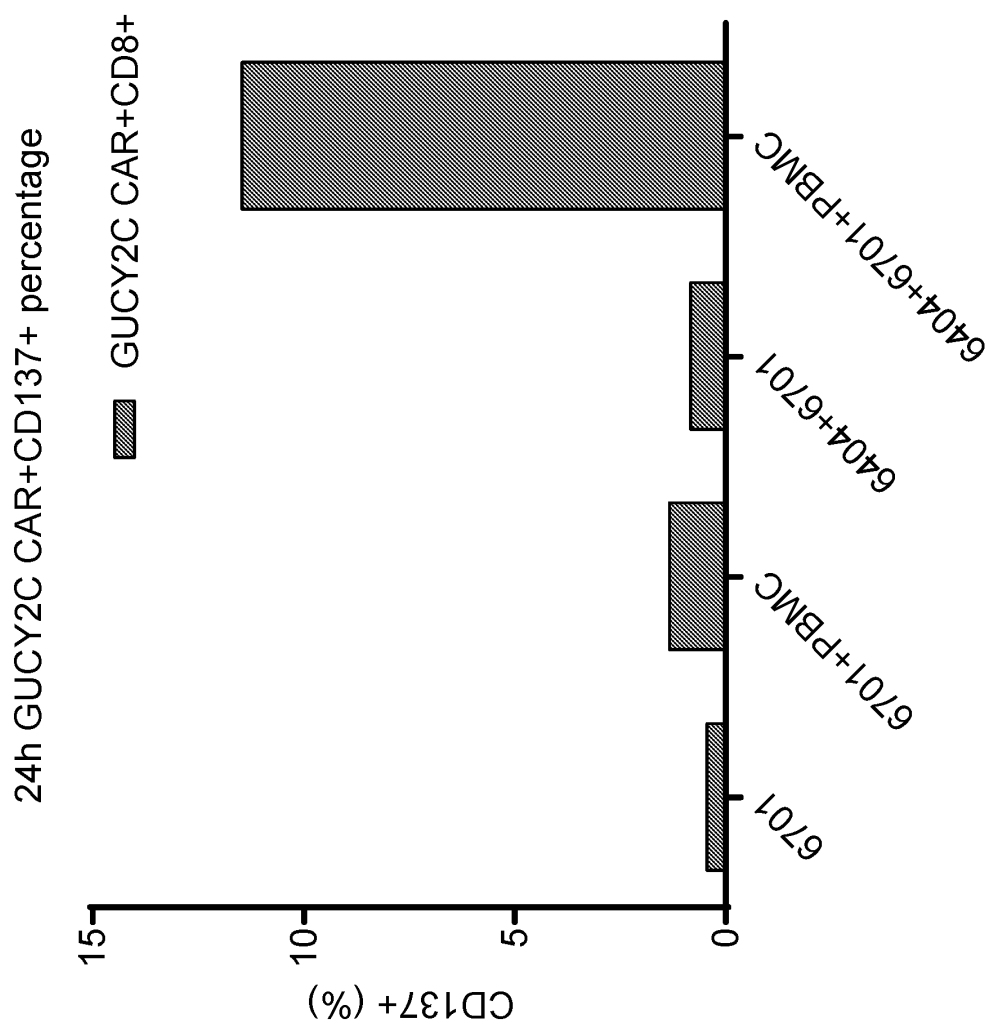
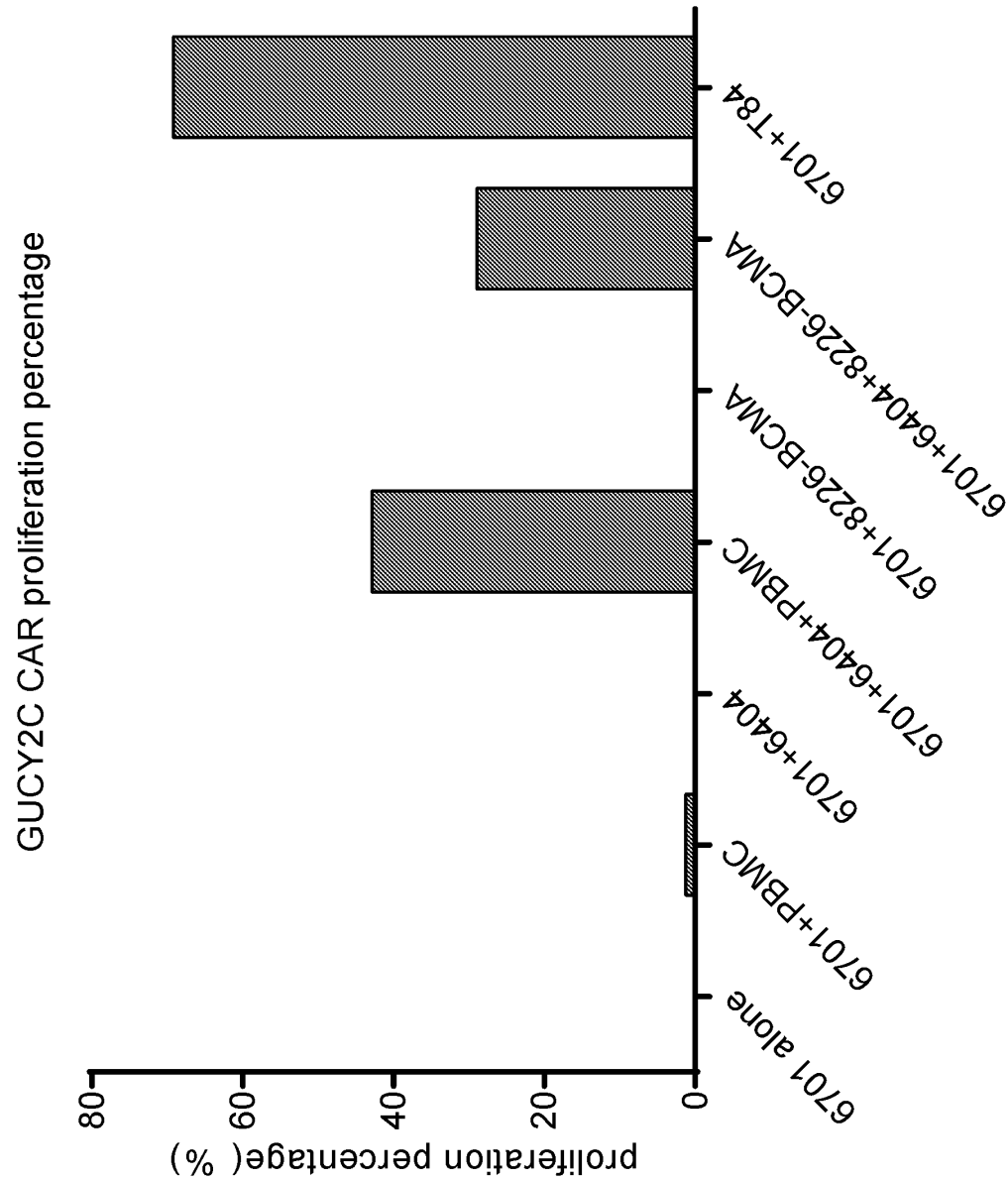


FIG. 85



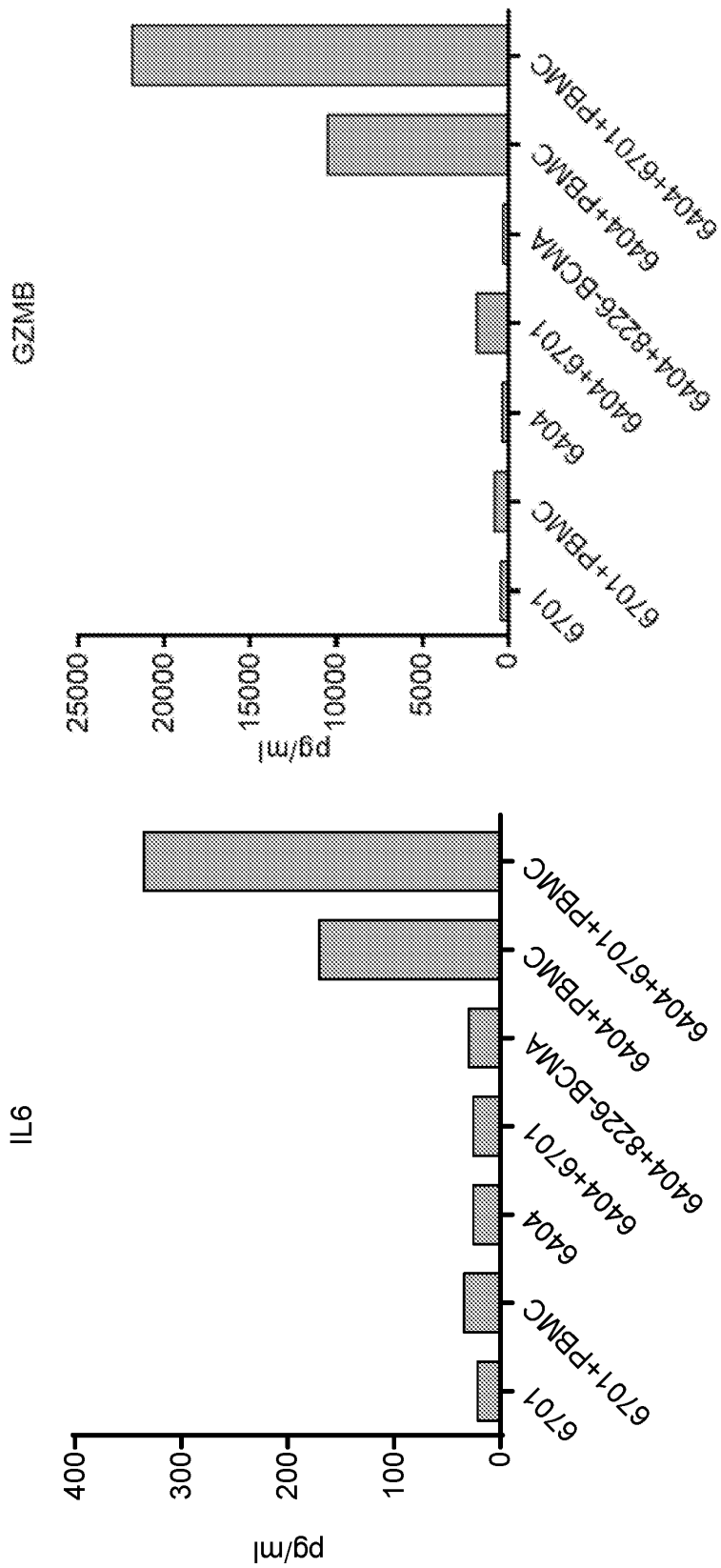


FIG. 86

