

CAR Treg DESIGN SCHEME

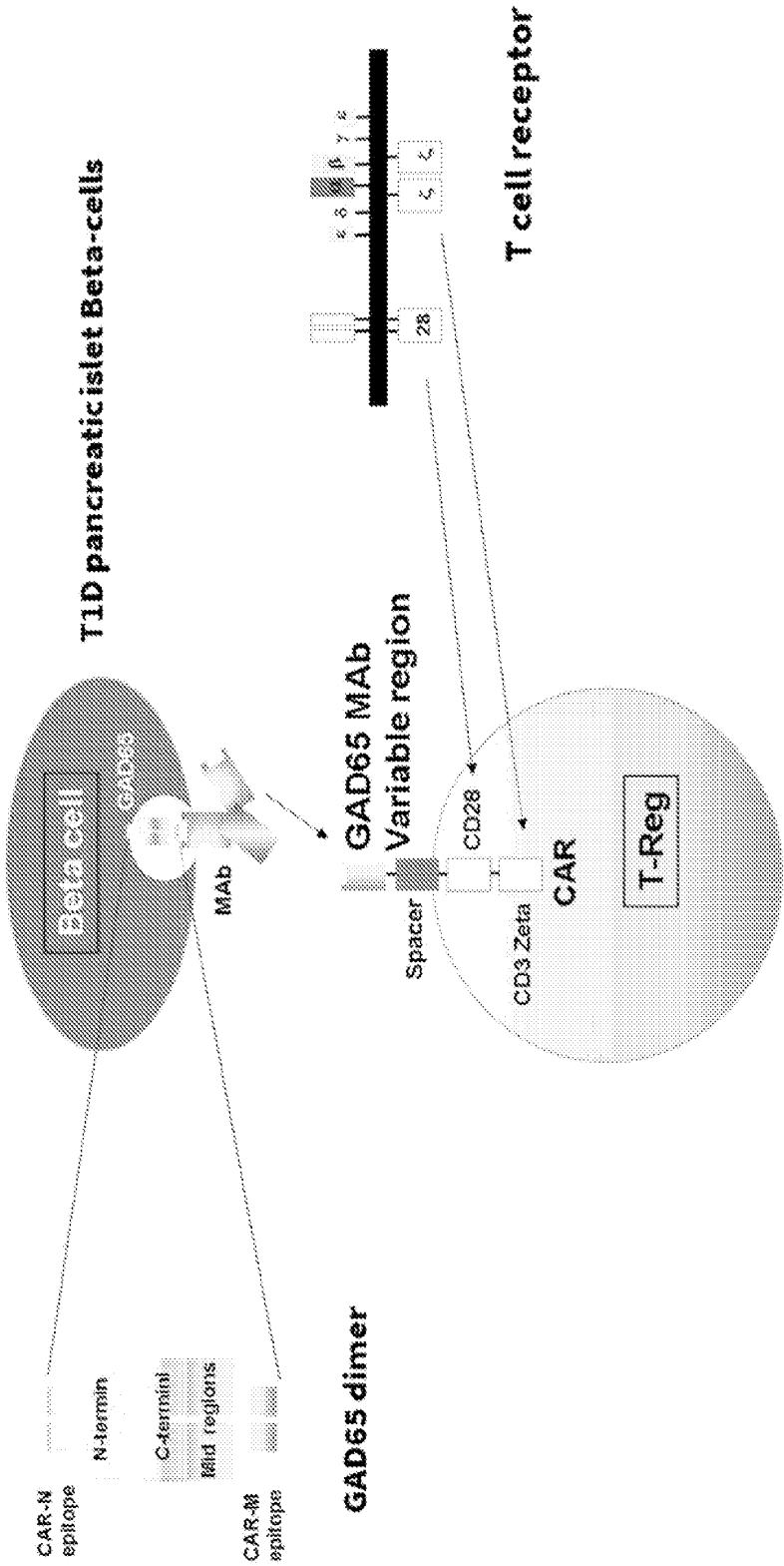


FIG. 1A

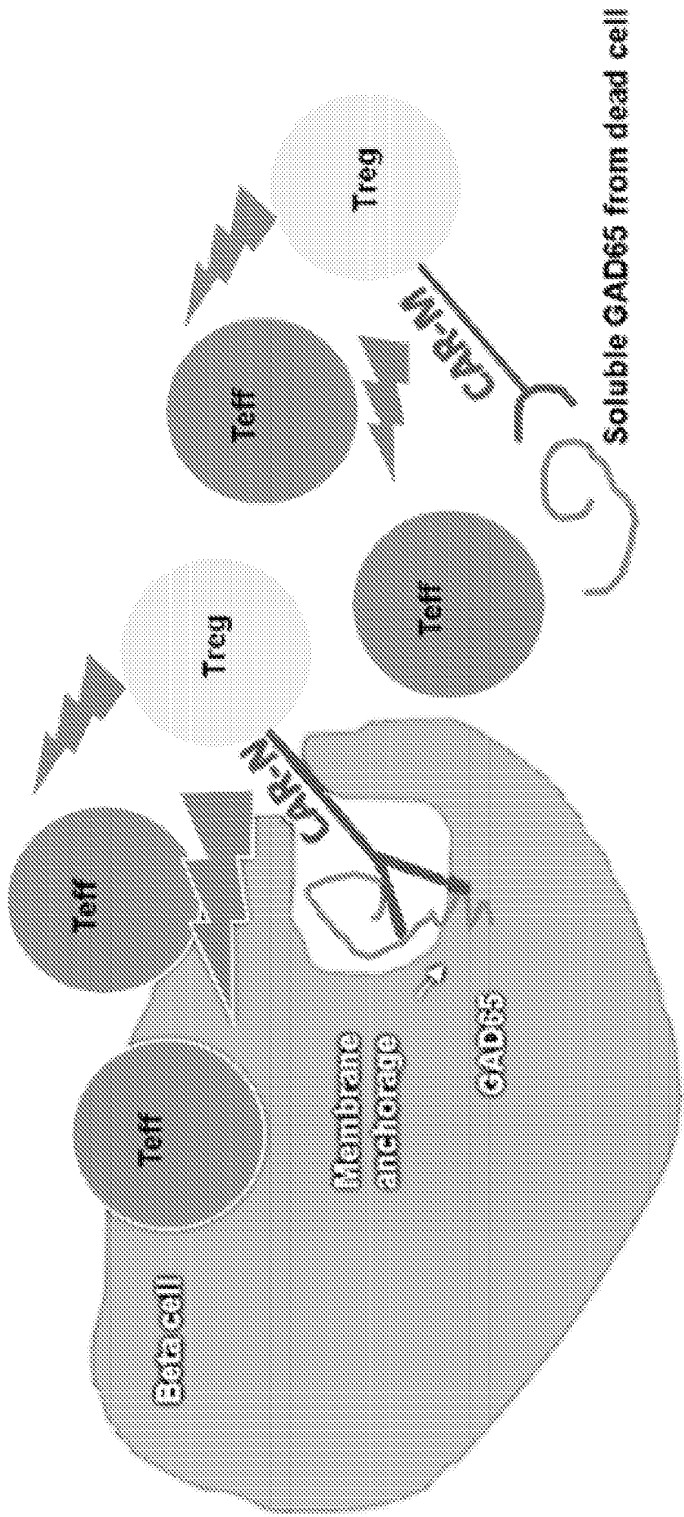


FIG. 1B

Characteristics	Human T1D Susceptibility	Animal Model
Genetic predisposition	MHC: DR4/DQ8; DR3/DQ2	DQ8 (KO mouse MHC)
Antigen (GAD65)	Only isoform in Pancreas	RIP- GAD65 (Mouse, mostly GAD67)

APC (HLA-DQ8-Green) - GAD65 (Blue) Interaction within the islet of T1D mice

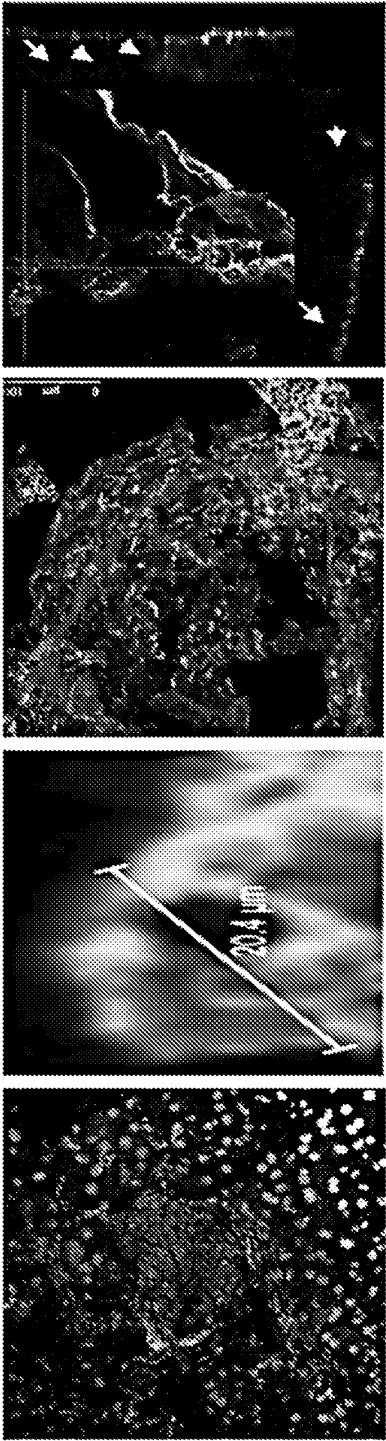
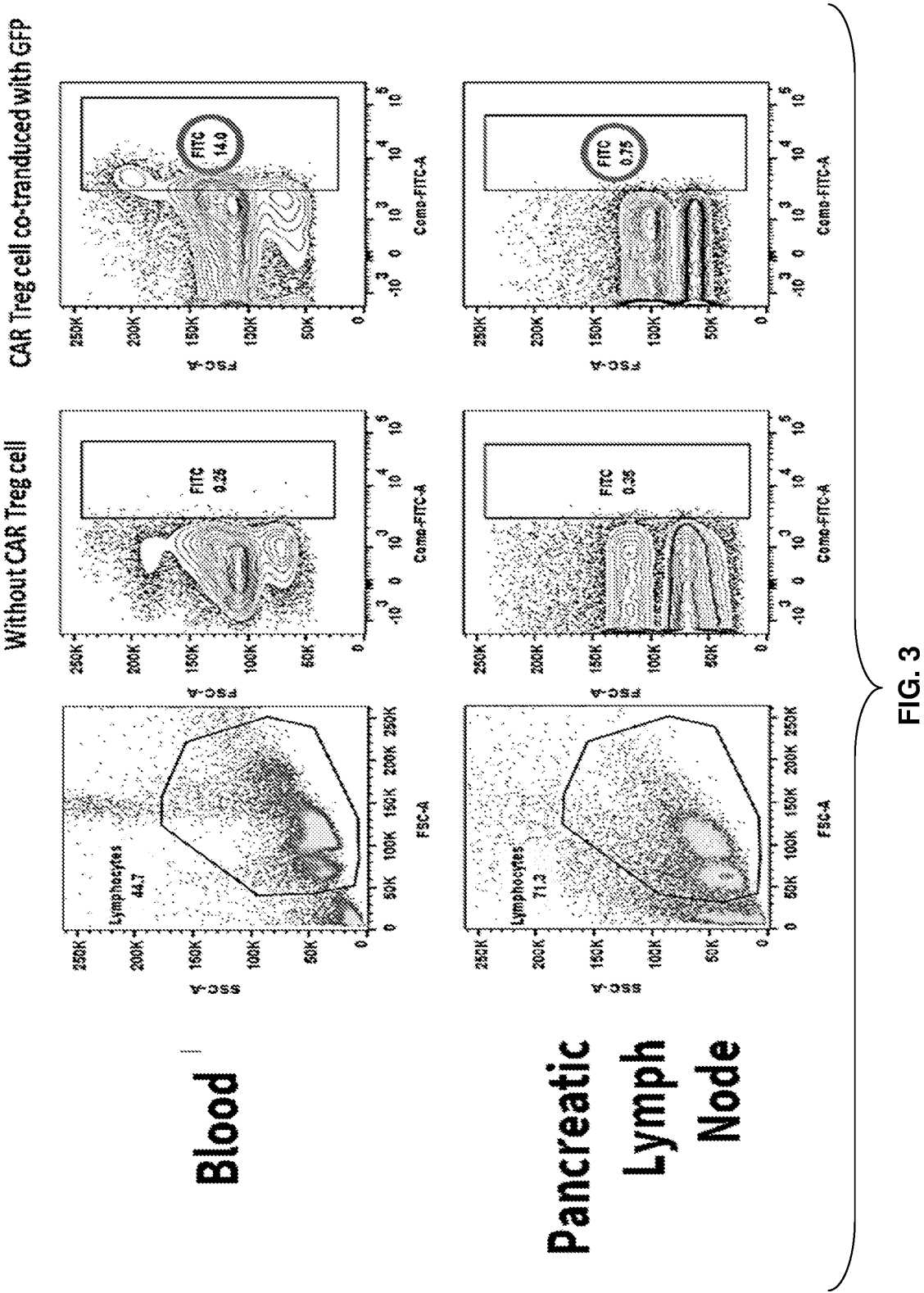


FIG. 2



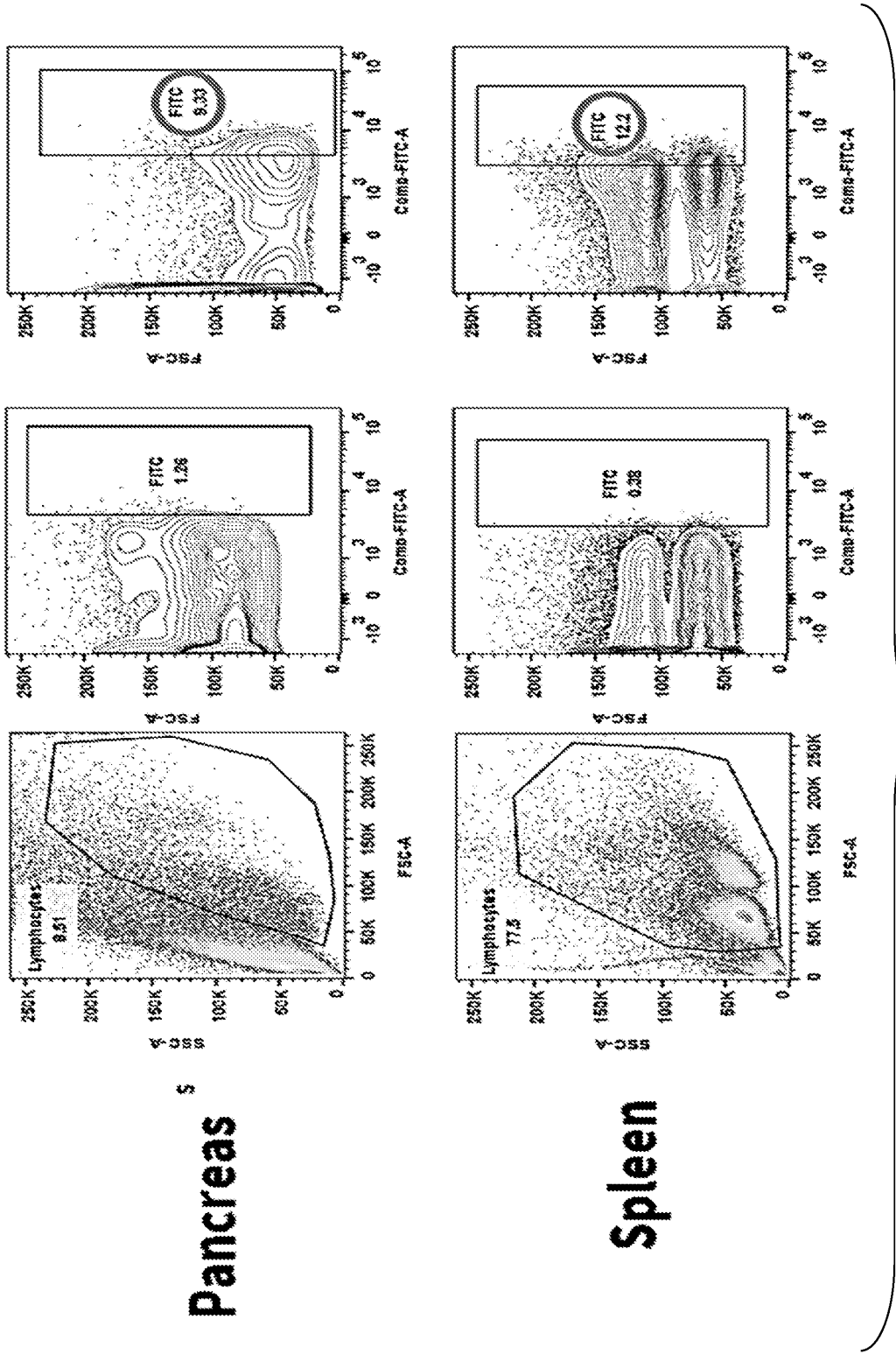
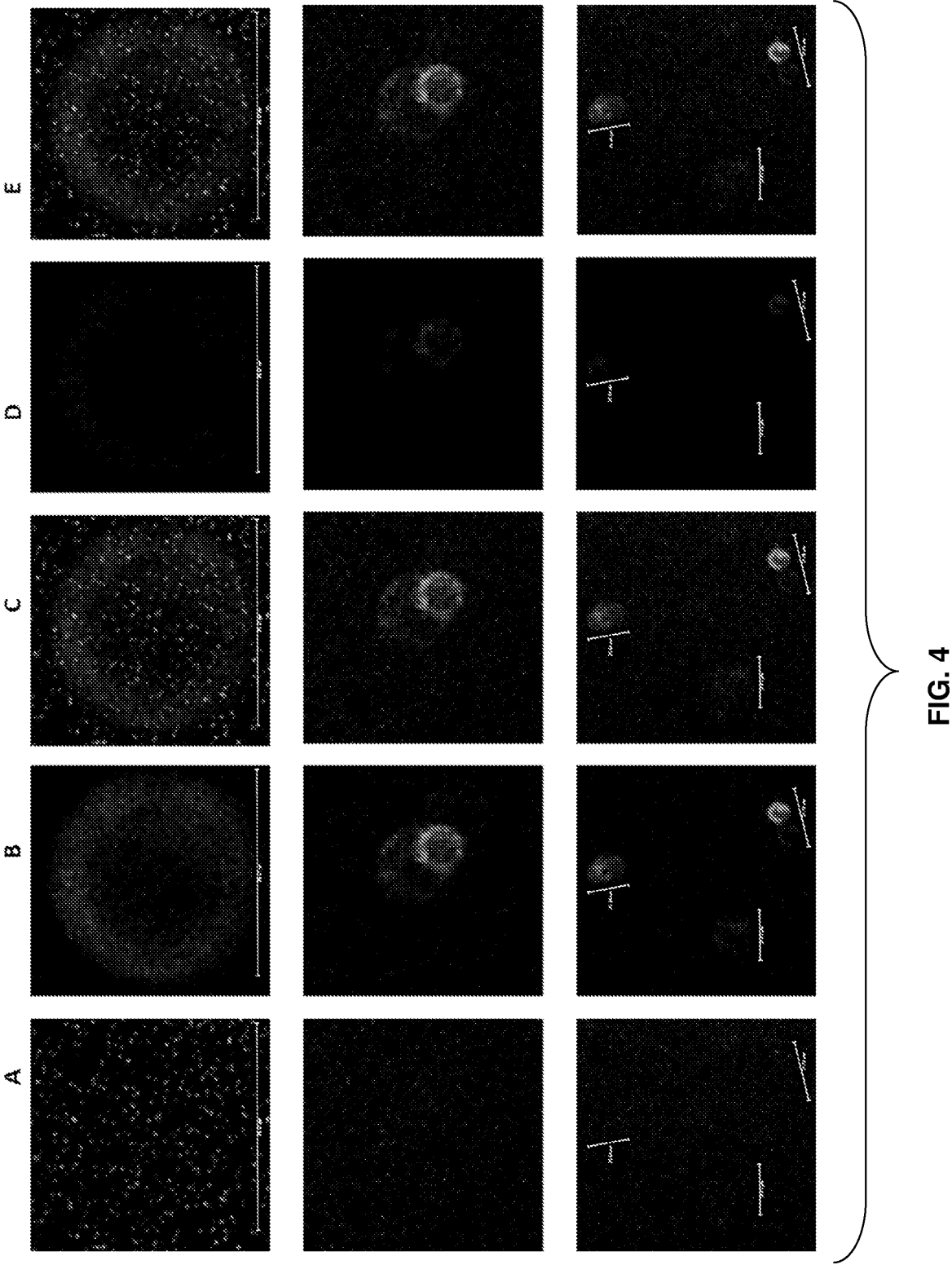
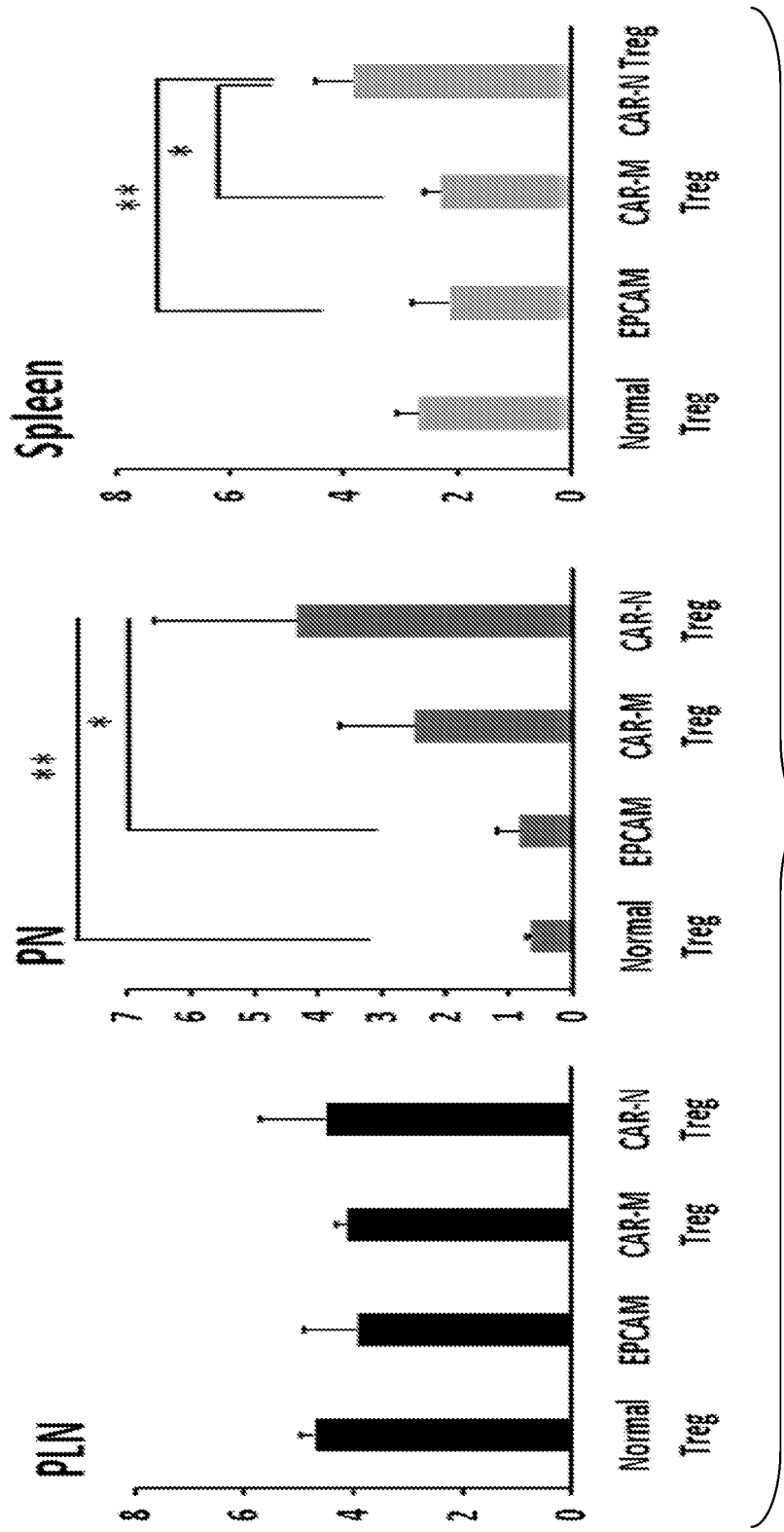


FIG. 3 cont.





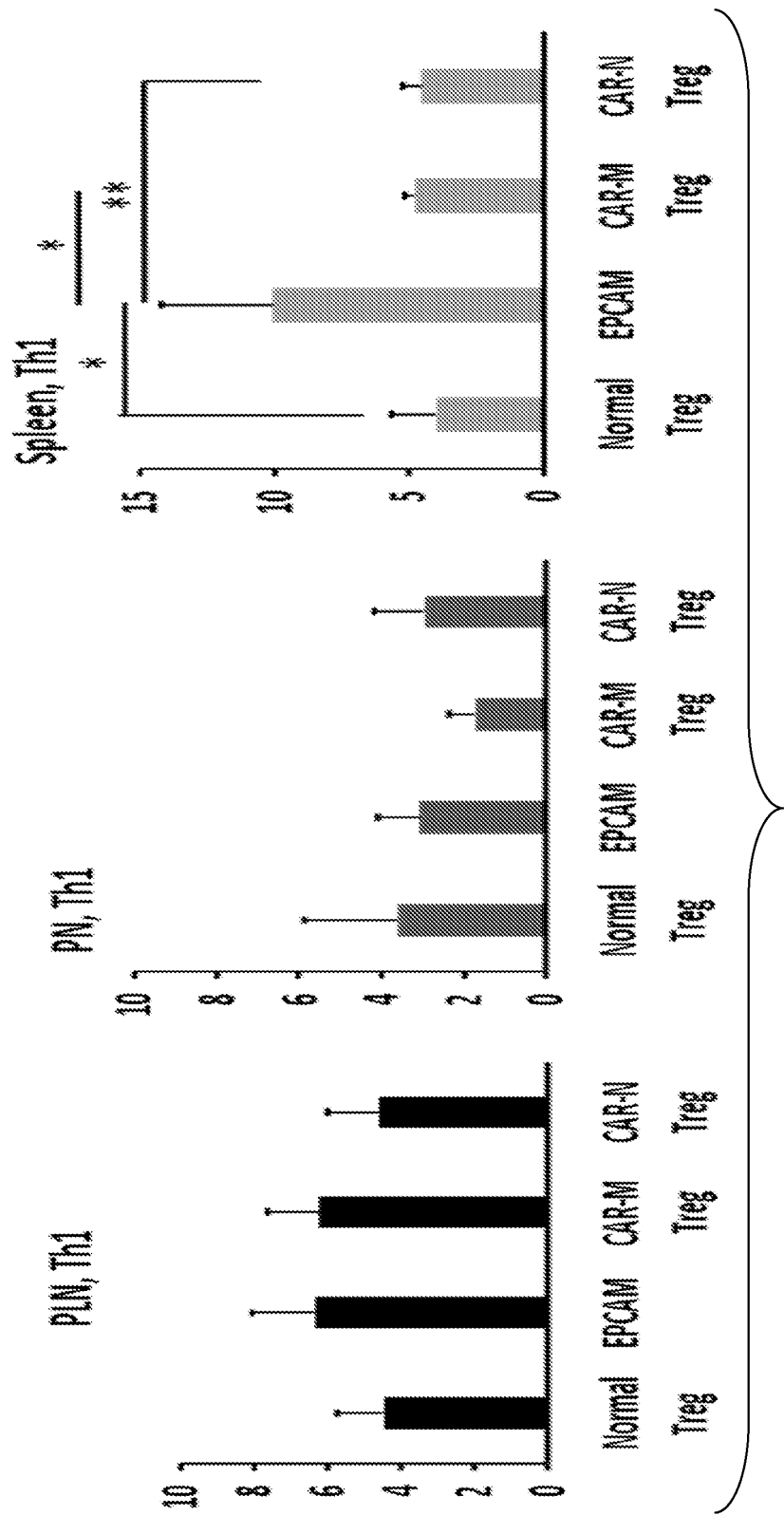


FIG. 5B

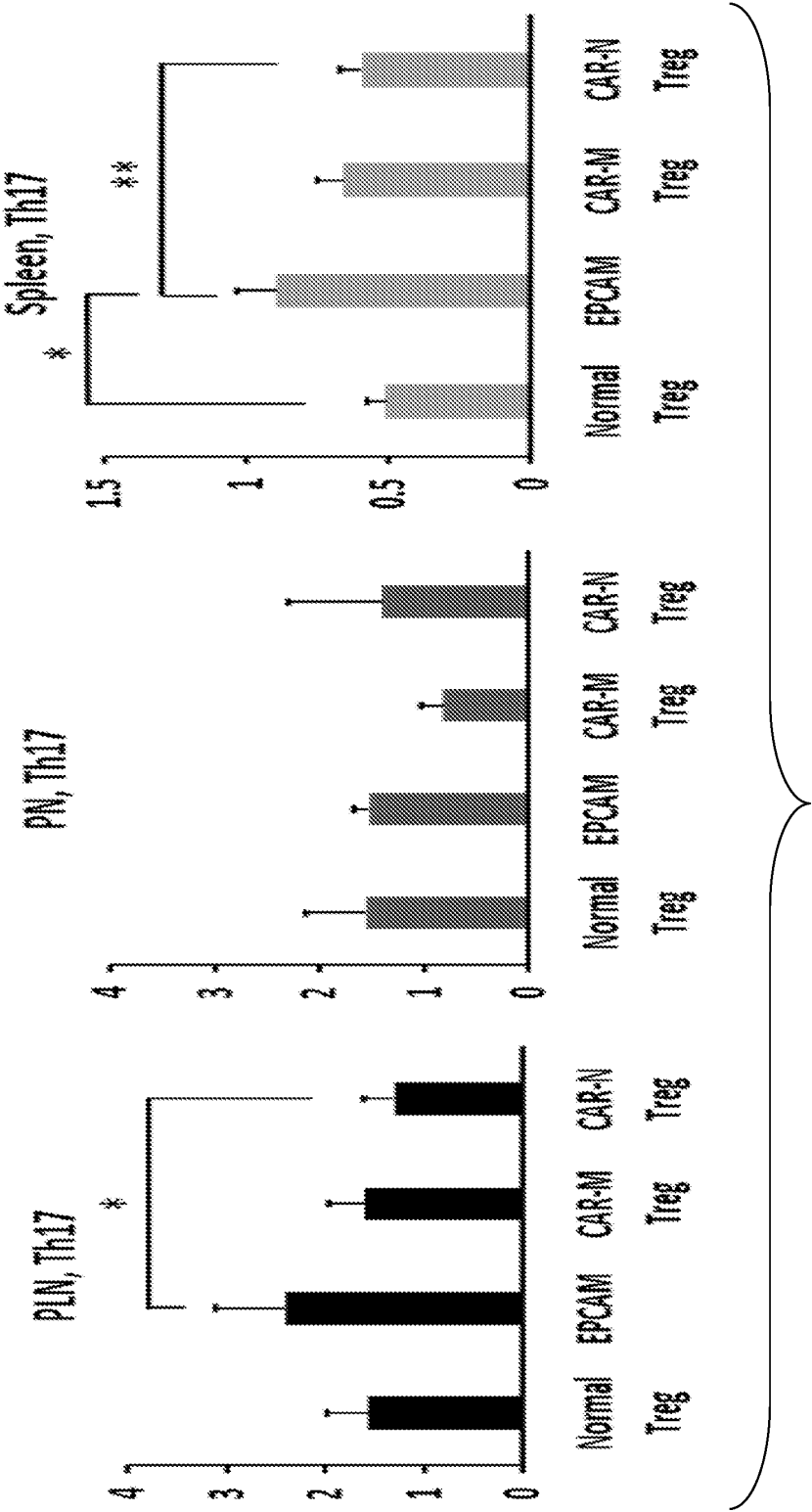


FIG. 5C

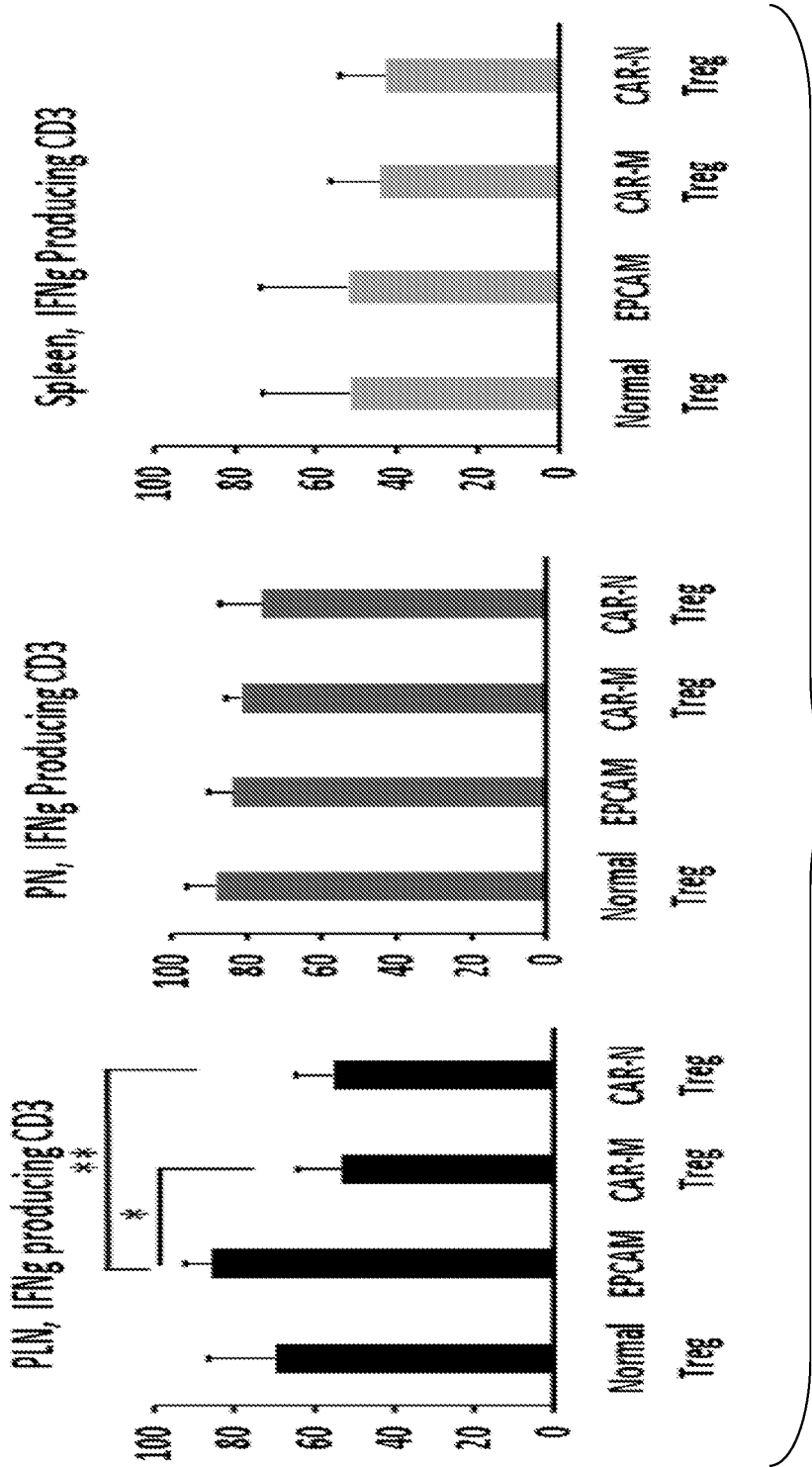


FIG. 5D

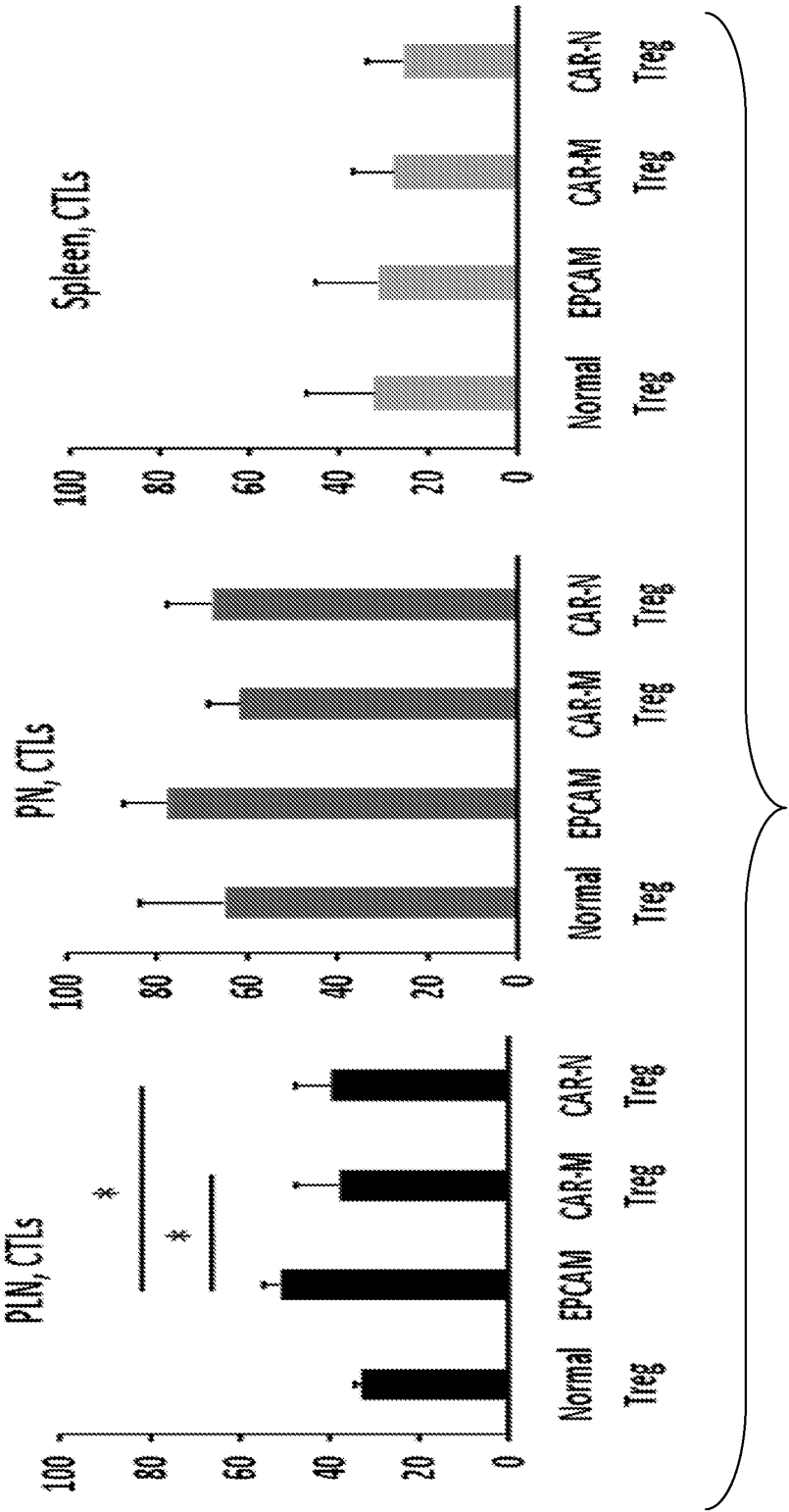


FIG. 5E

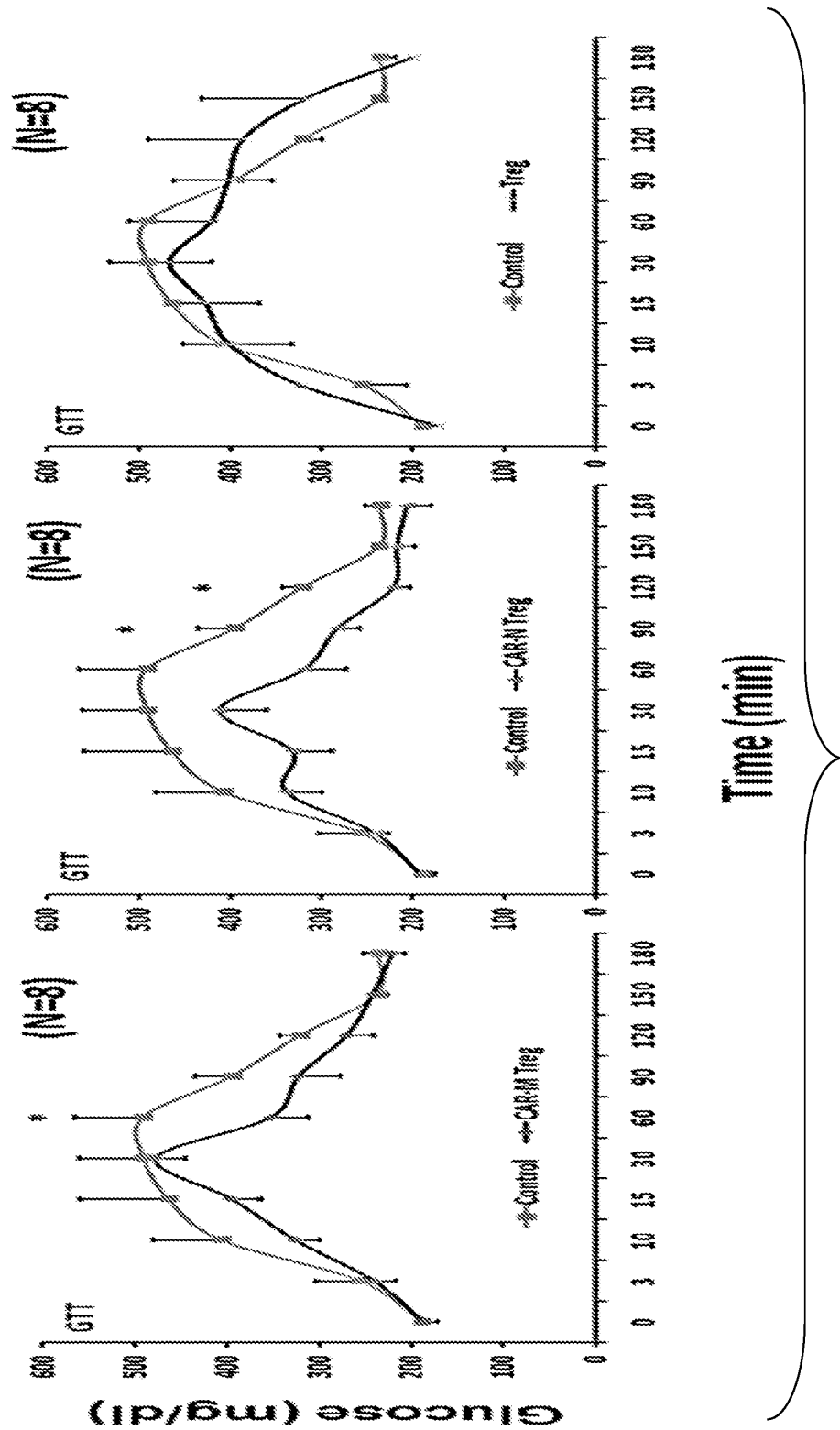


FIG. 6

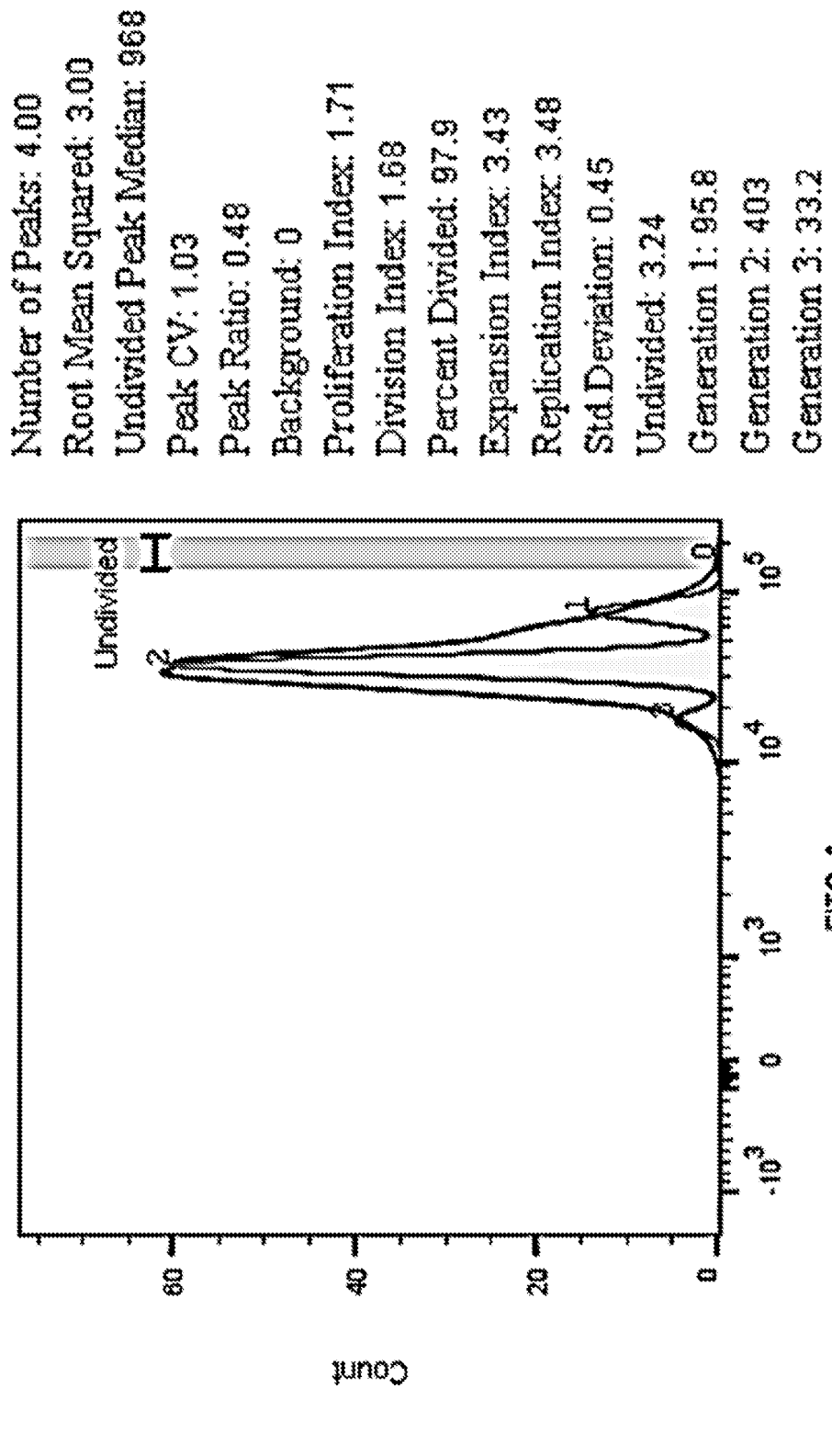


FIG. 7A

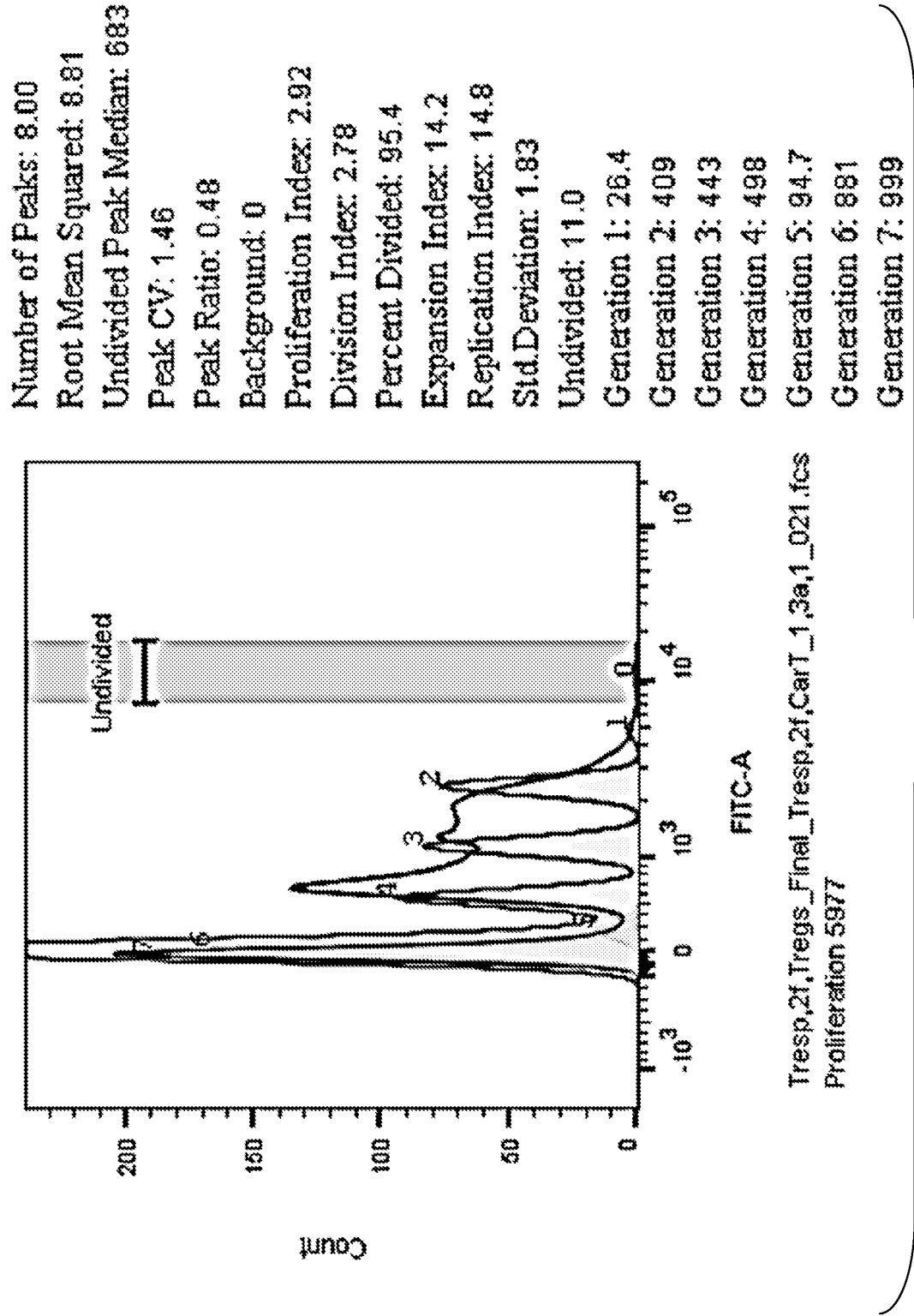


FIG. 7B

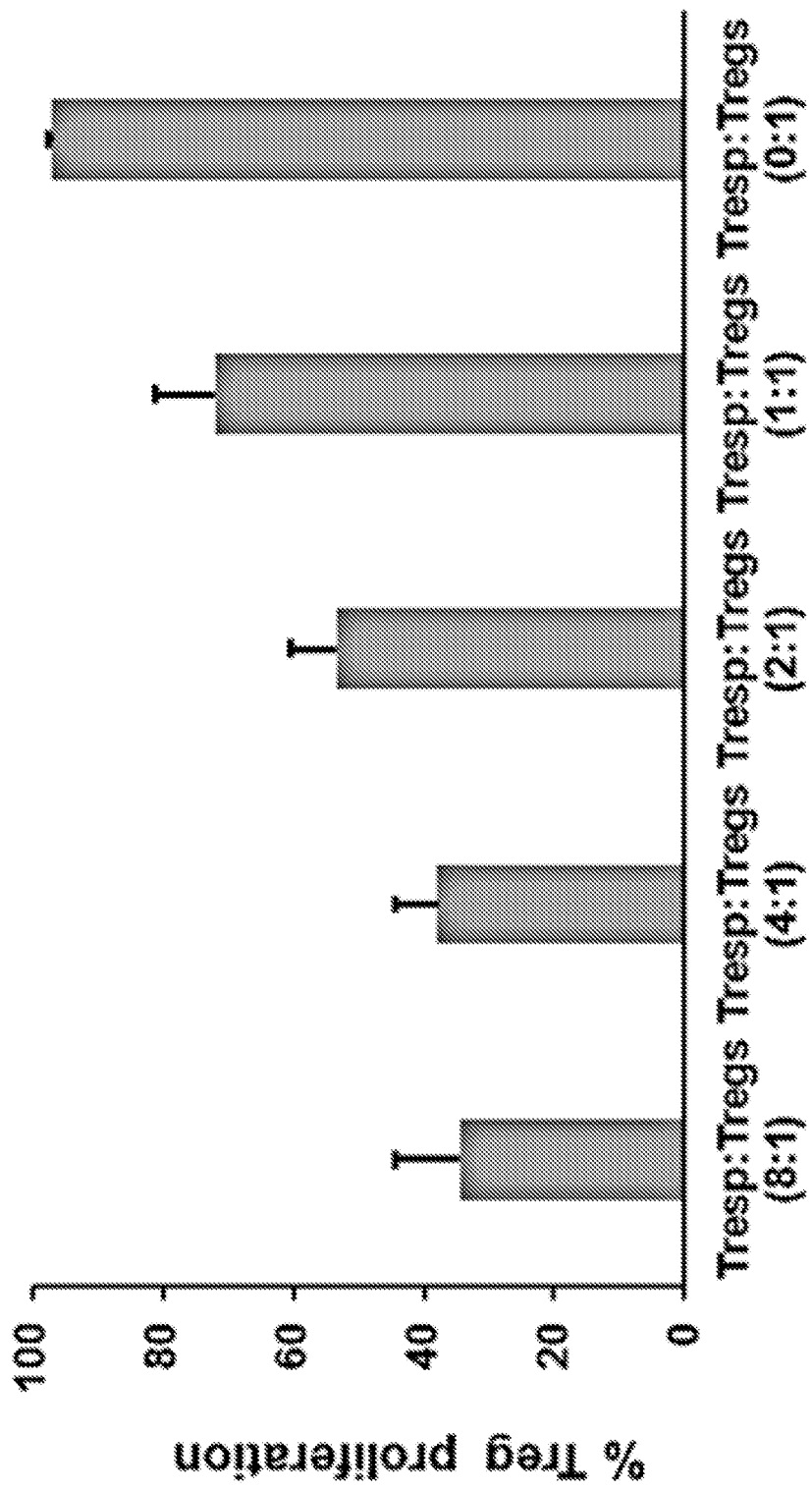


FIG. 7C

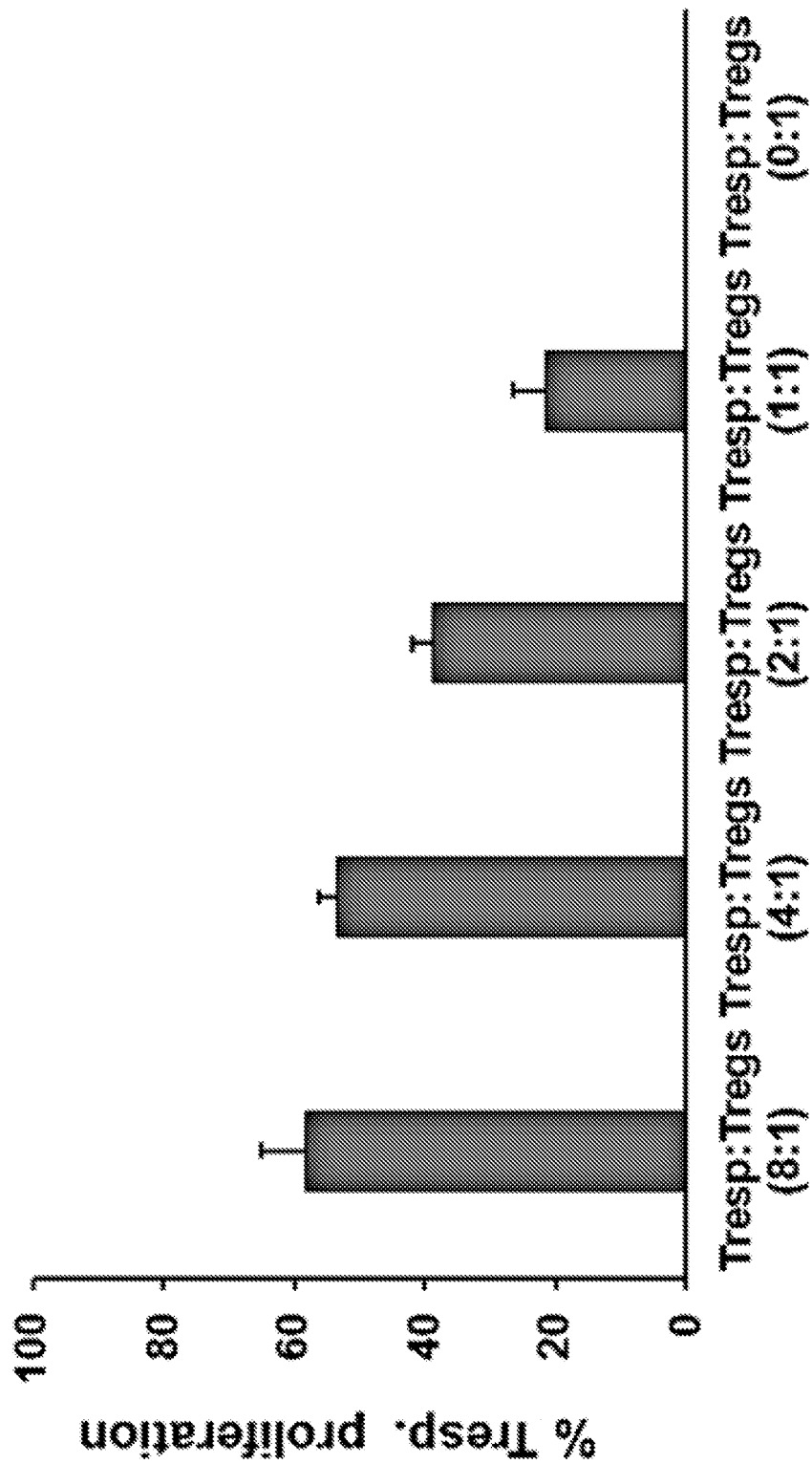


FIG. 7D

Proliferation / Replication Index of CAR-Treg (CD25 ⁺) and Tresp (CD4 ⁺ + CD25 ⁻) (n=3-4)						
	Tresp:Treg (8:1)	Tresp:Treg (4:1)	Tresp:Treg (2:1)	Tresp:Treg (1:1)	Tresp:Treg (0:1)	
CD25/Proliferation Index (Mean ± SE)	2.48 ± 0.14	2.13 ± 0.11	2.25 ± 0.49	2.23 ± 0.36	2.45 ± 0.20	
Tresp/Proliferation Index (Mean ± SE)	1.54 ± 0.20	1.67 ± 0.35	1.20 ± 0.02	1.71 ± 0.33	0.00	
CD25/Replication Index (Mean ± SE)	8.57 ± 2.02	5.60 ± 0.79	6.21 ± 2.07	8.20 ± 3.37	5.99 ± 0.69	
Tresp/Replication Index (Mean ± SE)	3.34 ± 0.56	3.70 ± 1.04	2.47 ± 0.06	3.86 ± 1.03	0.00	

FIG. 7E

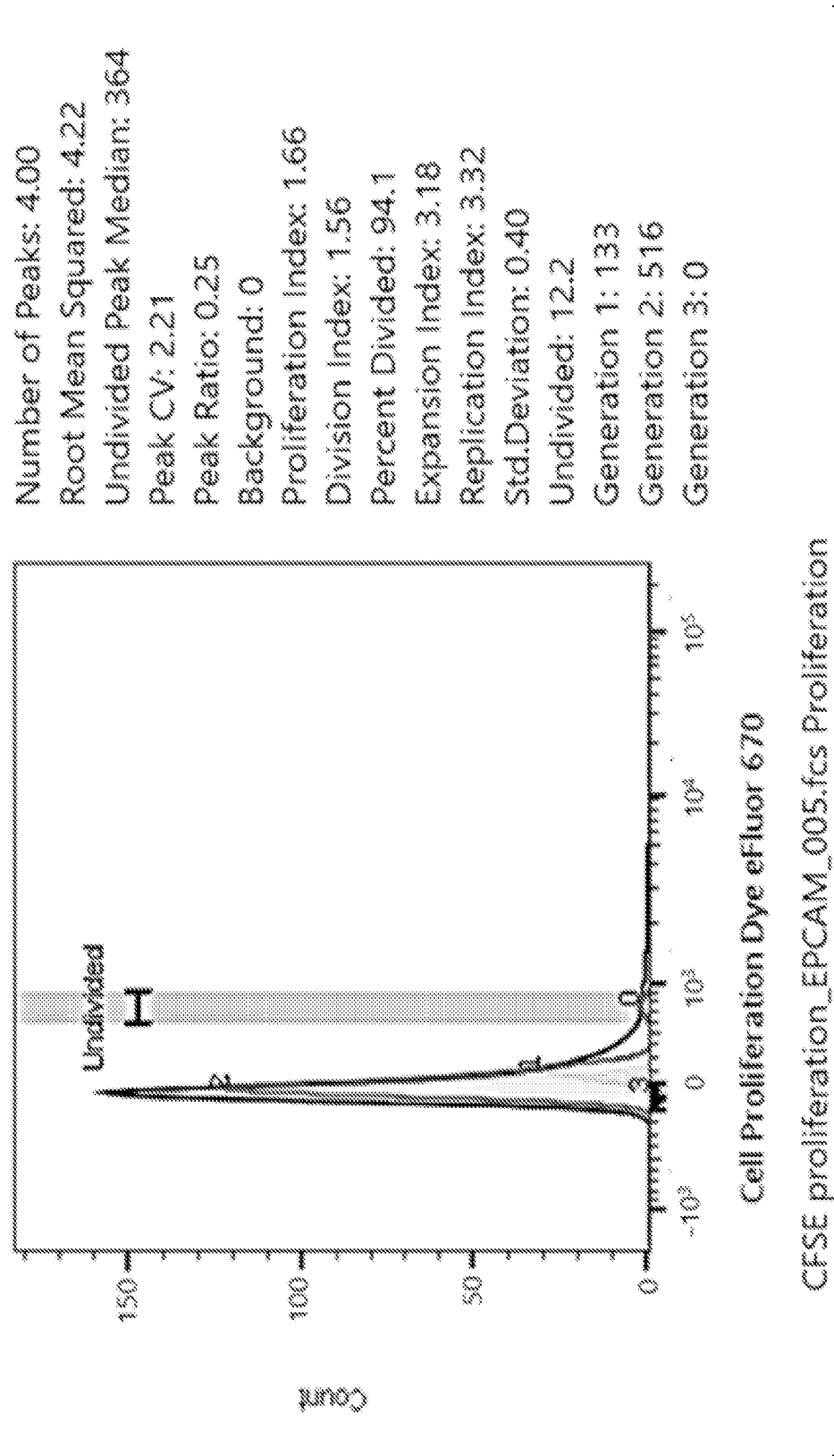


FIG. 8A

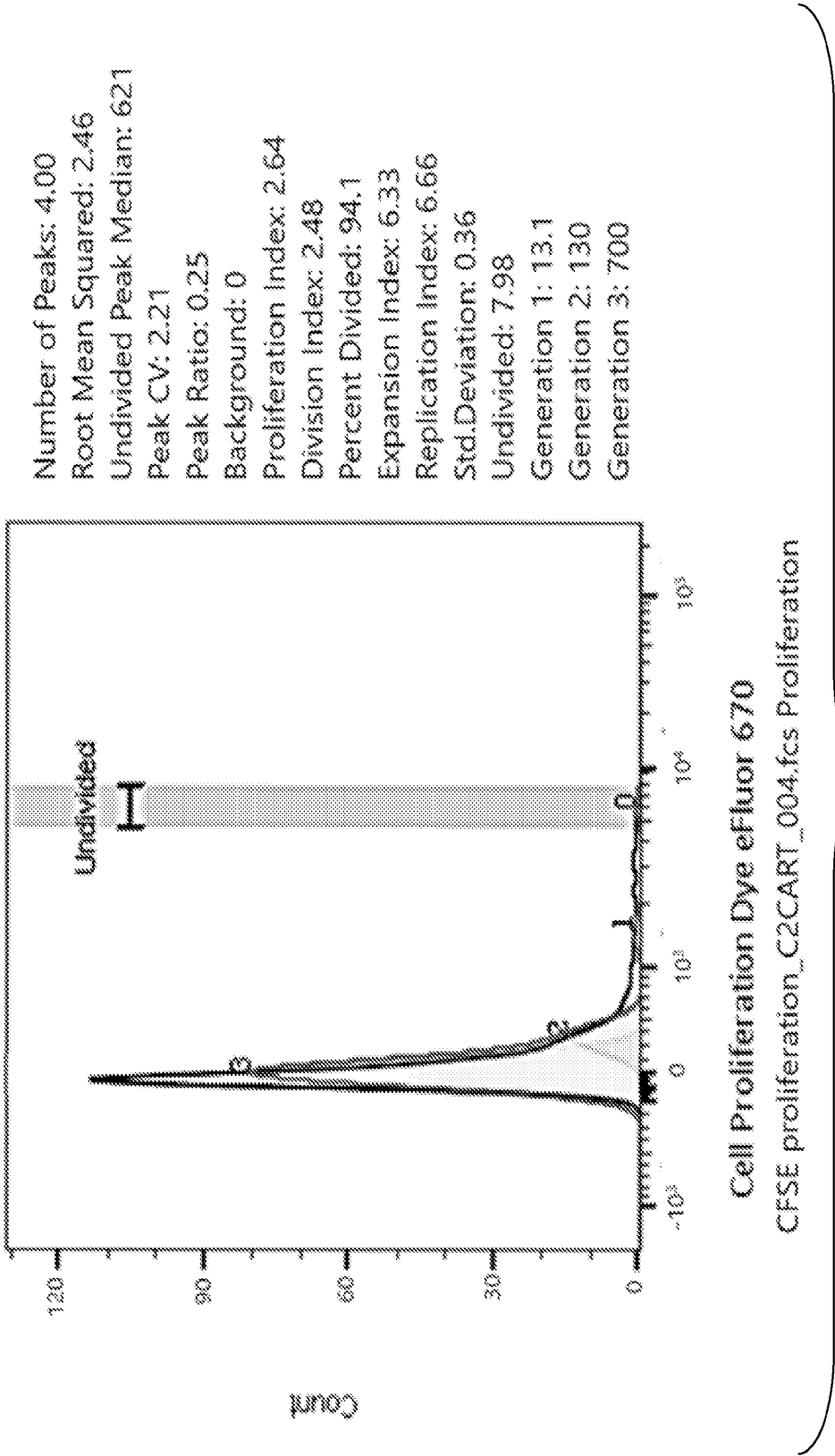


FIG. 8B

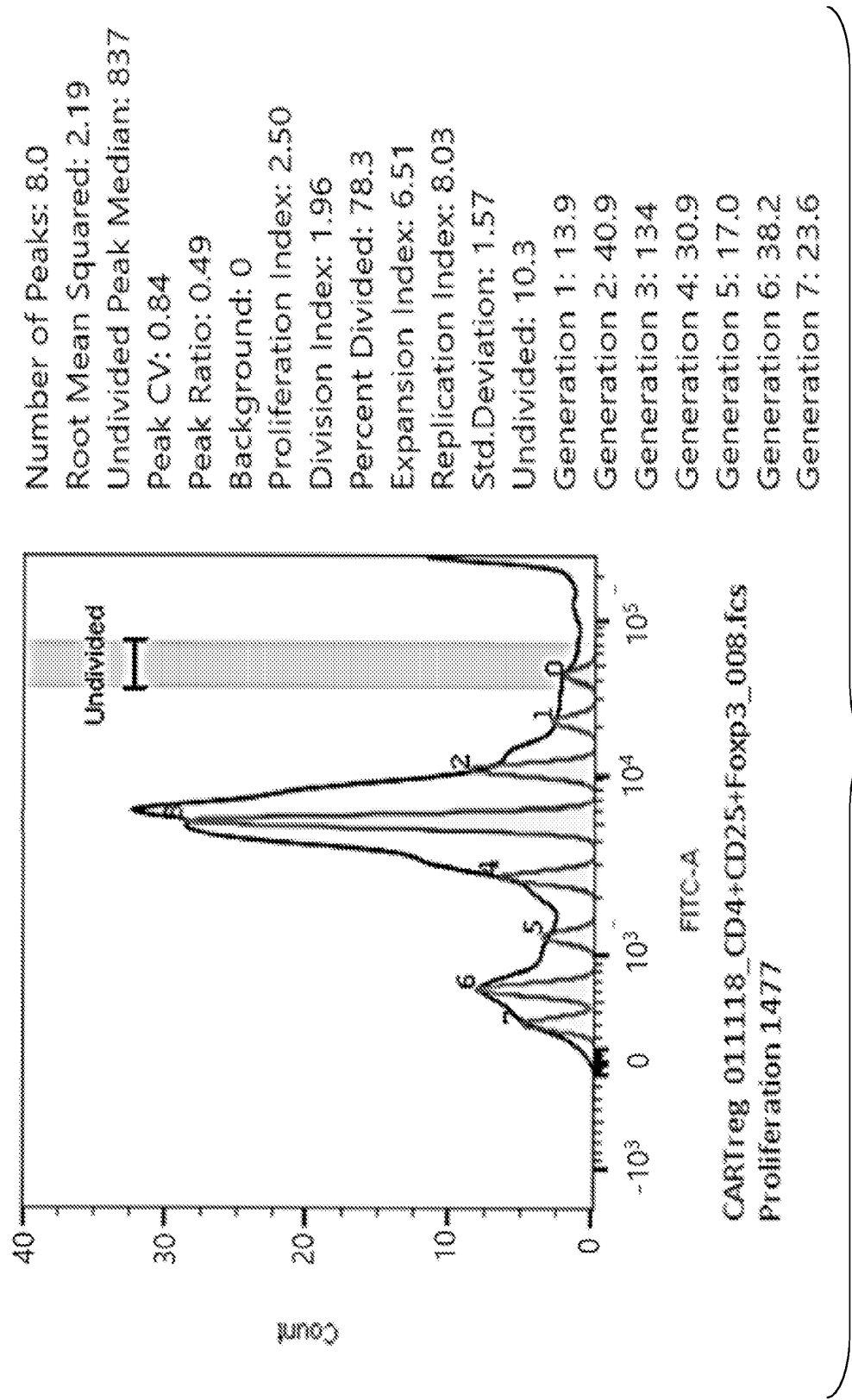


FIG. 8C

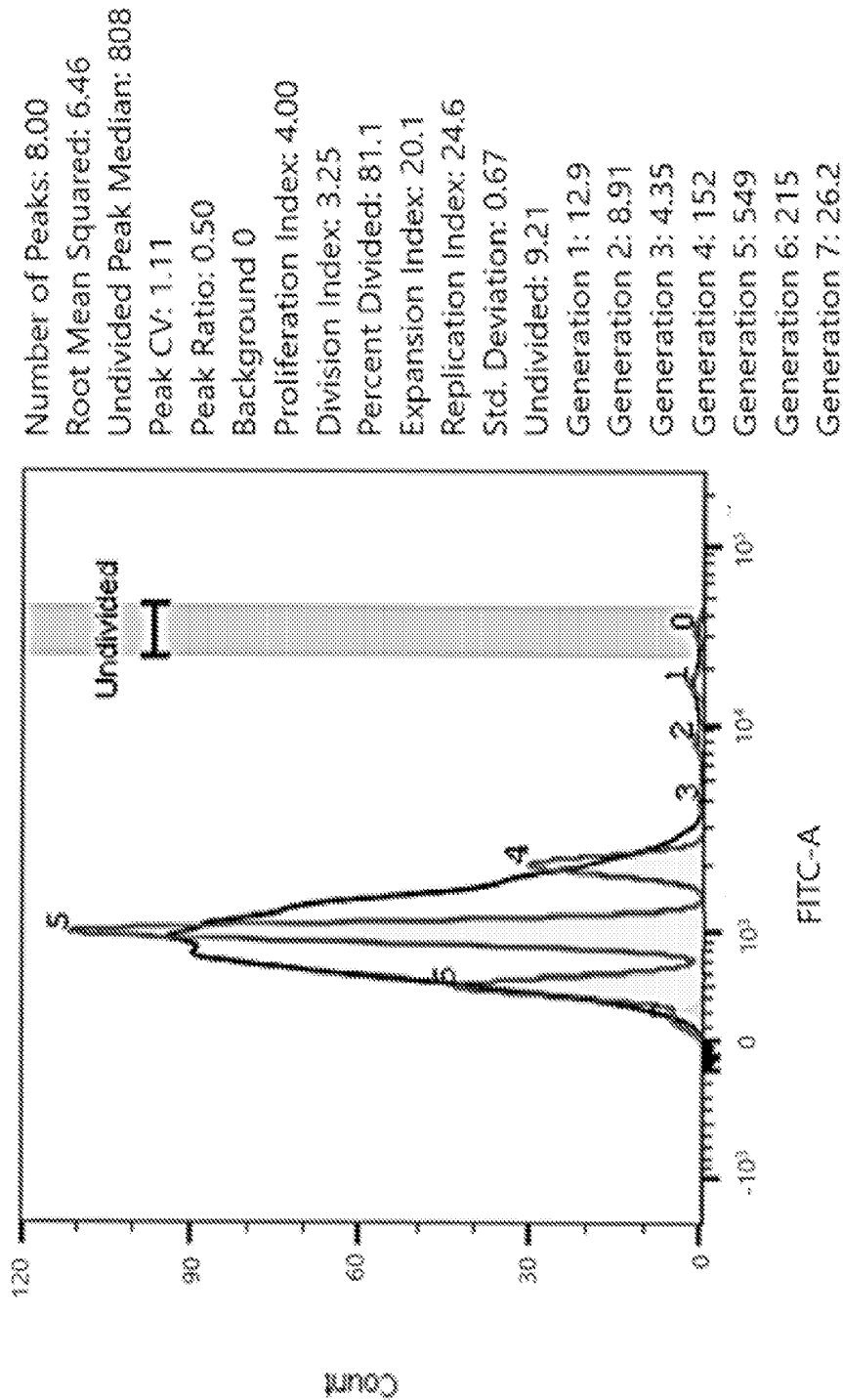


FIG. 8D