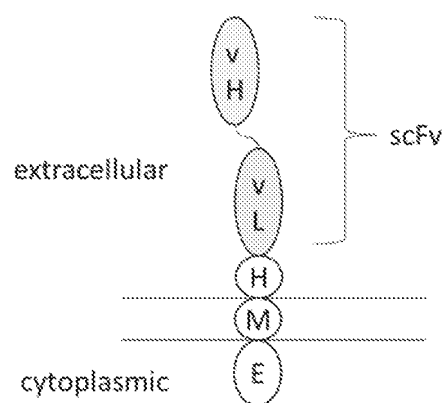


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Example of cBCR on cell membrane



vH: heavy chain variable region

vL: light chain variable region

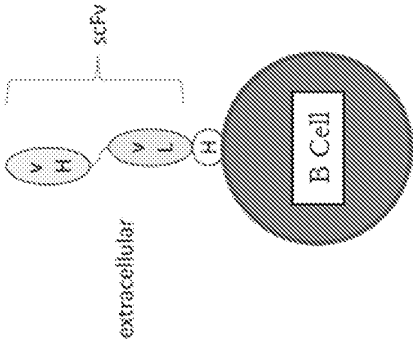
H: hinge region

M: transmembrane domain

E: cytoplasmic signaling domain

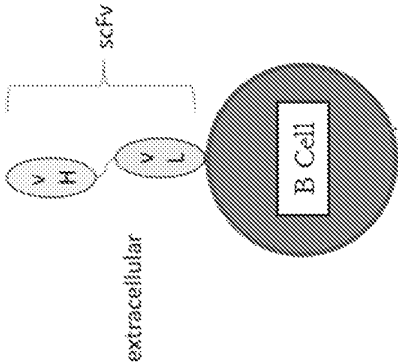
FIG. 1

Engineered B cells with Homing Domain



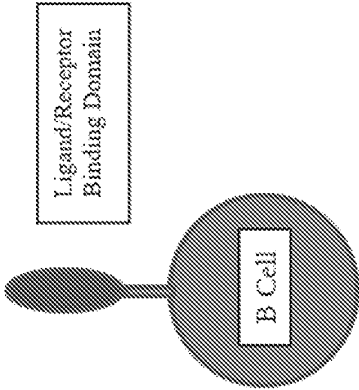
Engineered B Cell
with scFv Binding
Domain and
Optional Hinge

FIG. 2A



Engineered B Cell
with scFv Binding
Domain Directly
Linked to Cell

FIG. 2B



Engineered B Cell
with ligand/receptor
Binding Domain
Directly Linked to Cell

FIG. 2C

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Examples of cBCR (chimeric B cell receptor)

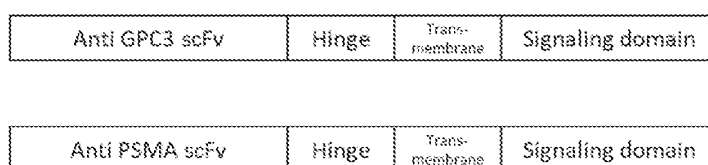
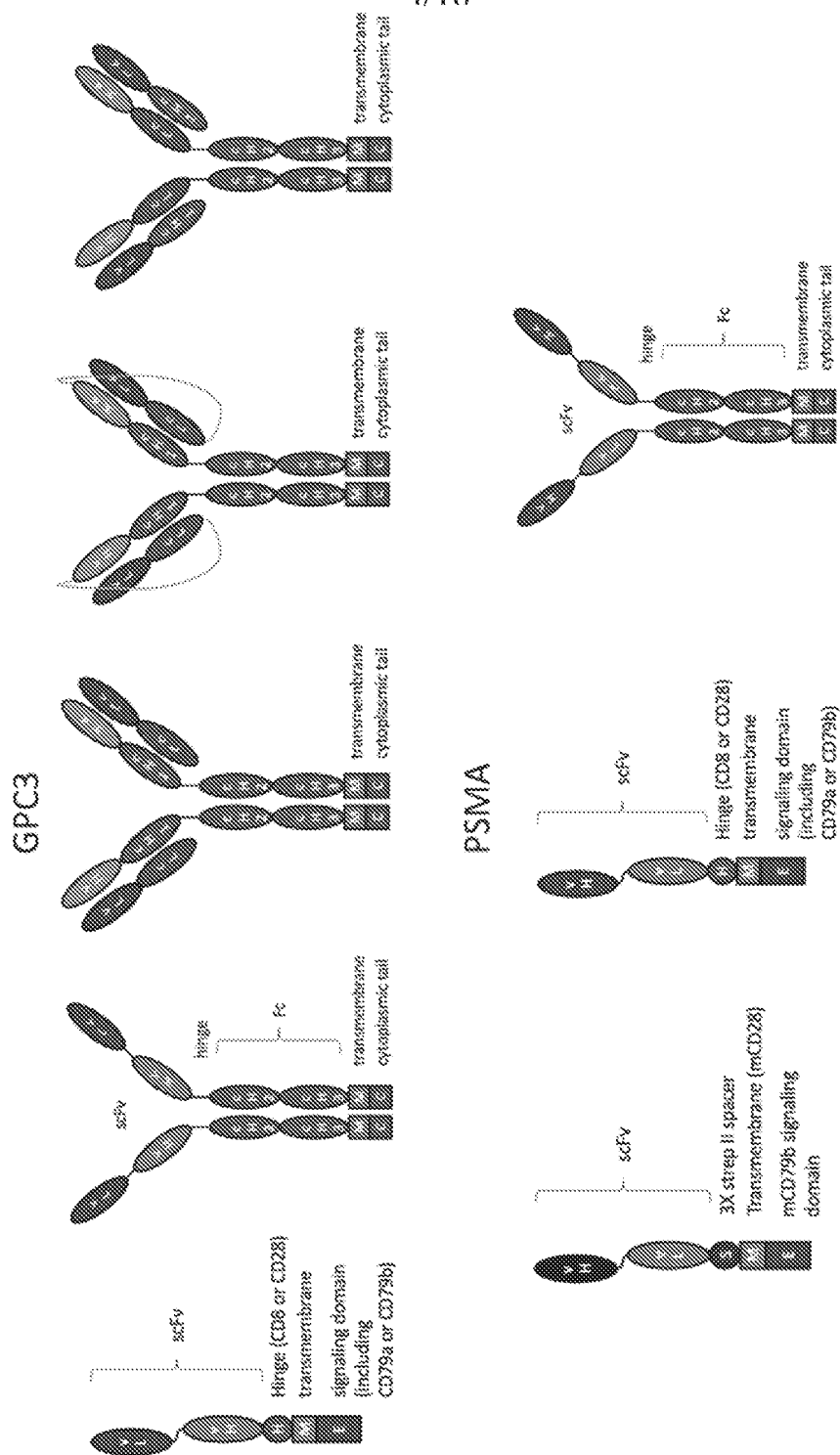


FIG. 3



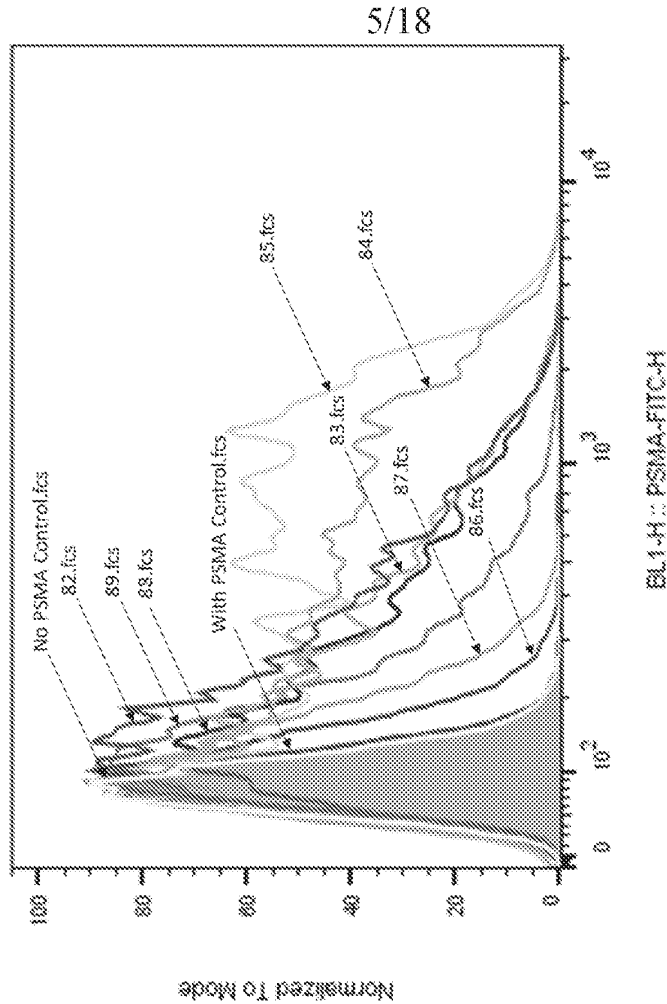
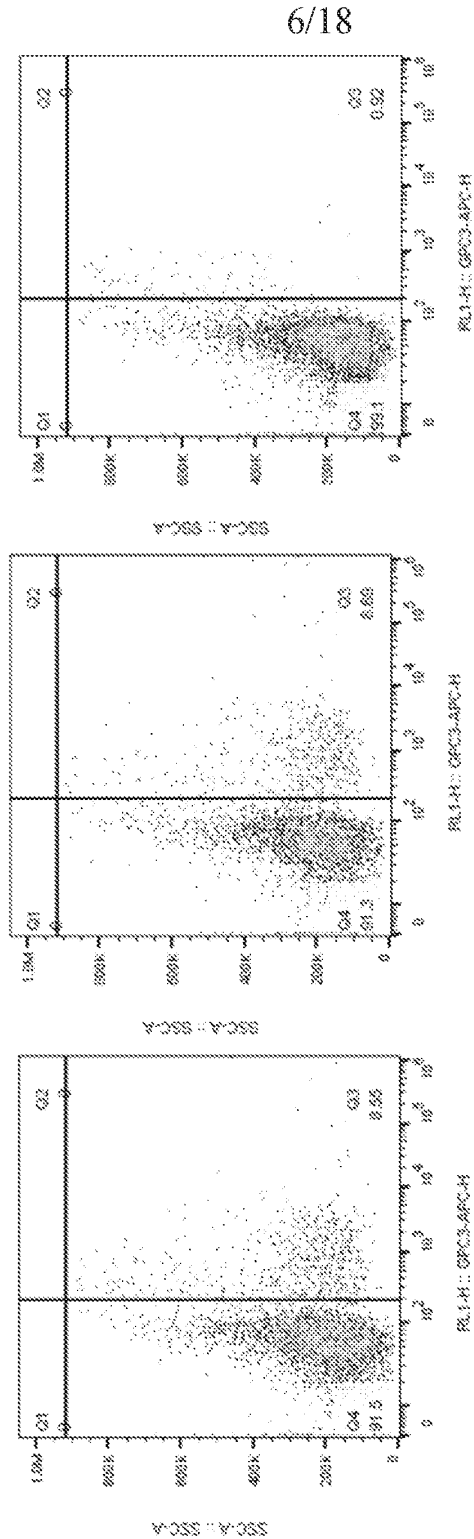


FIG. 5

	Sample Name	Geometric Mean: BL1-H
	No-PSMA Control fcs	97.5
	With PSMA Control fcs	102
	82.fcs	246
	83.fcs	243
	84.fcs	247
	85.fcs	422
	86.fcs	119
	87.fcs	136
	88.fcs	251
	89.fcs	175



10-wk-396-pcm-hcd2-mod28-cd79a-fcs
CD19-Brilliant Violet 421-H, FSC-H subset
9204

9-wk327-antiopc3-hcd2-mod28m-cd79b-fcs
CD19-Brilliant Violet 421-H, FSC-H subset
6594

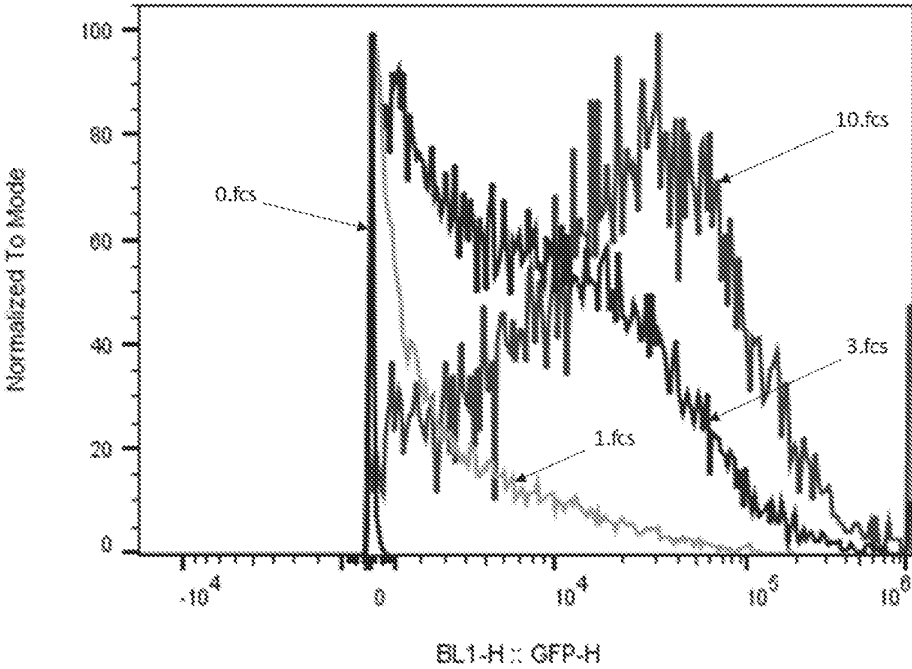
6-wk-396-pcm-hcd2-mod28m-cd79a-fcs
CD19-Brilliant Violet 421-H, FSC-H subset
6489

FIG. 6C

FIG. 6B

FIG. 6A

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	Sample Name	Subset Name	Count
	0.fcs	CD19-Brilliant Violet 421-H+	32219
	1.fcs	CD19-Brilliant Violet 421-H+	17023
	3.fcs	CD19-Brilliant Violet 421-H+	12890
	10.fcs	CD19-Brilliant Violet 421-H+	4920

FIG. 7

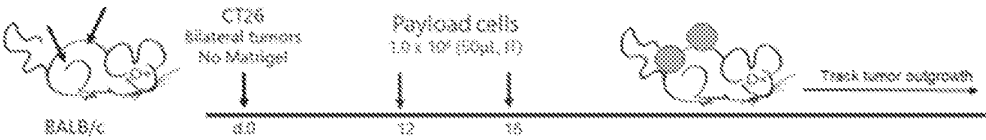


FIG. 8

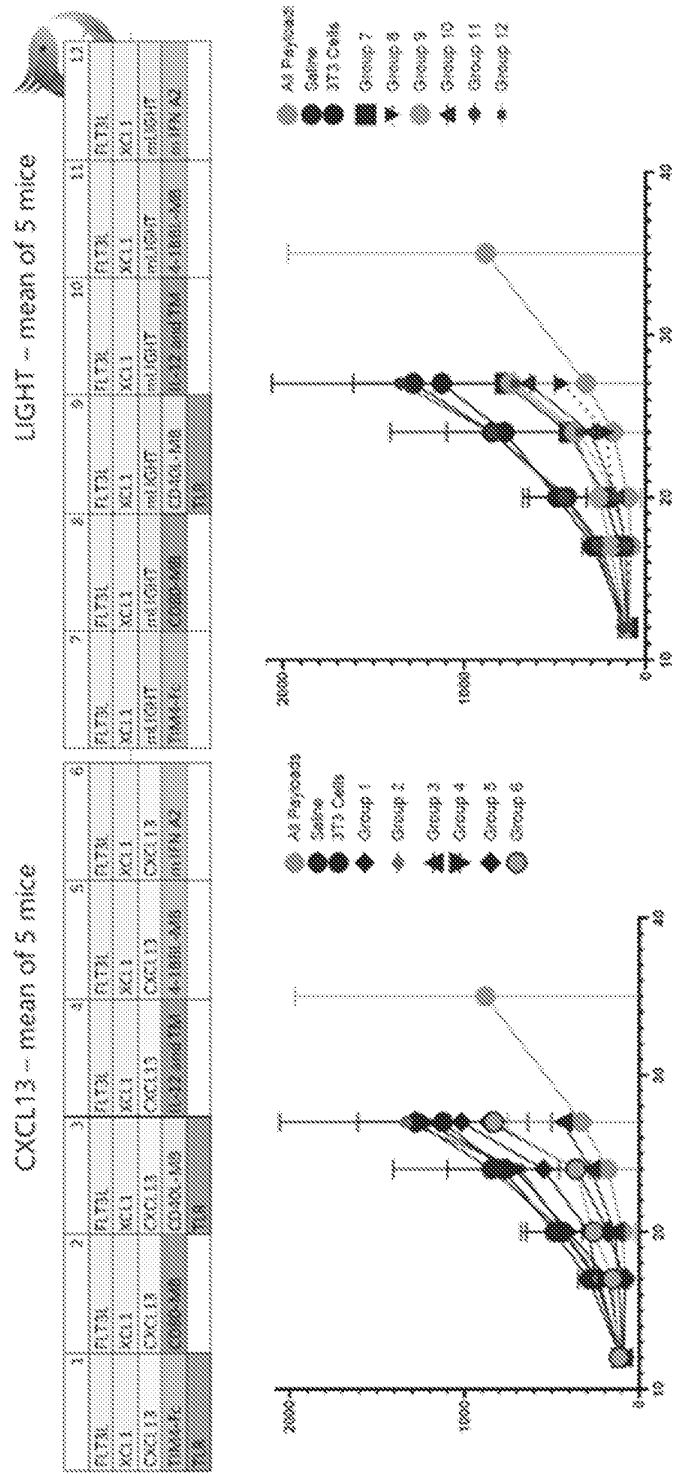
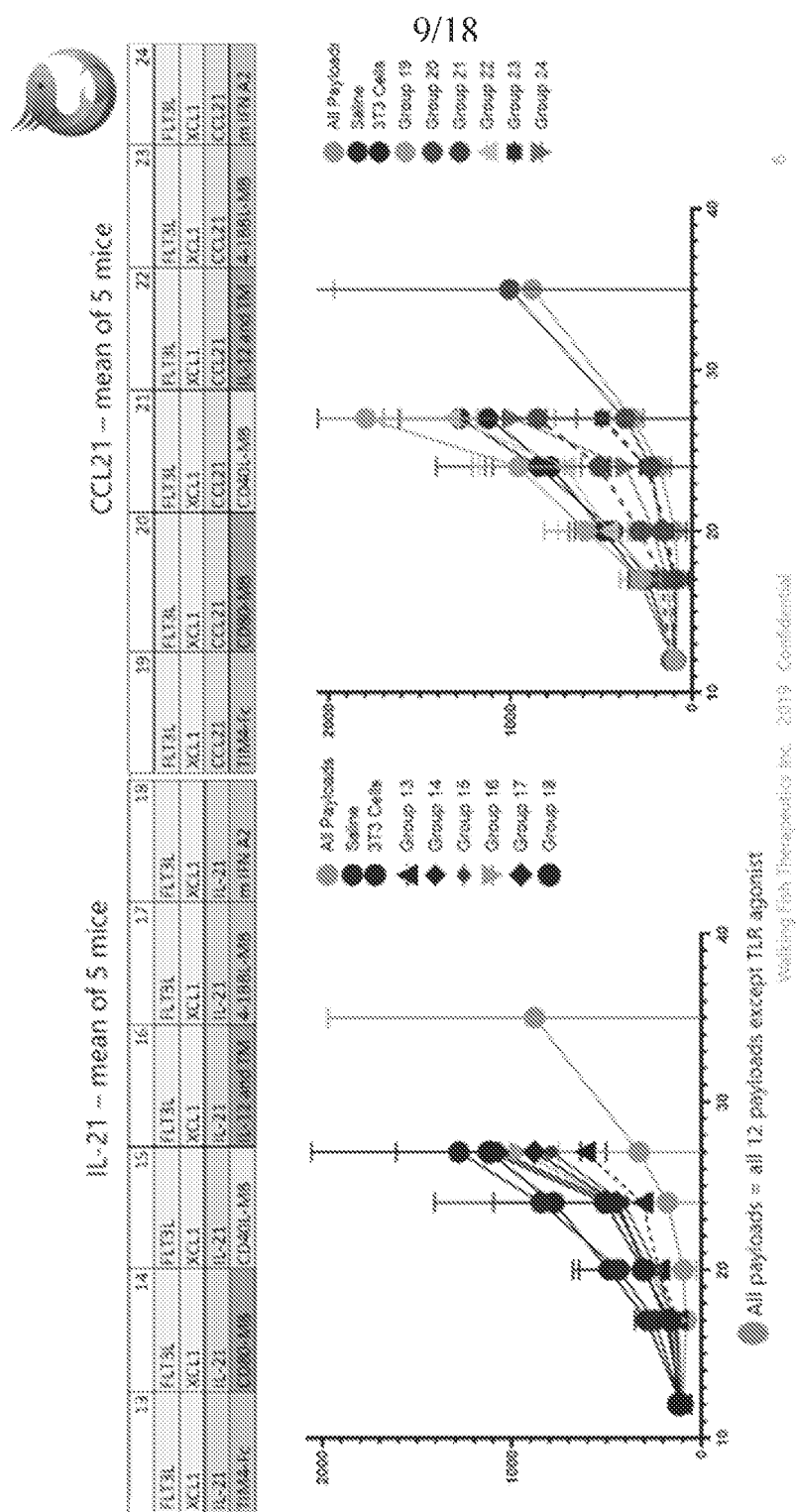


FIG. 9

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10
11
12
13
14

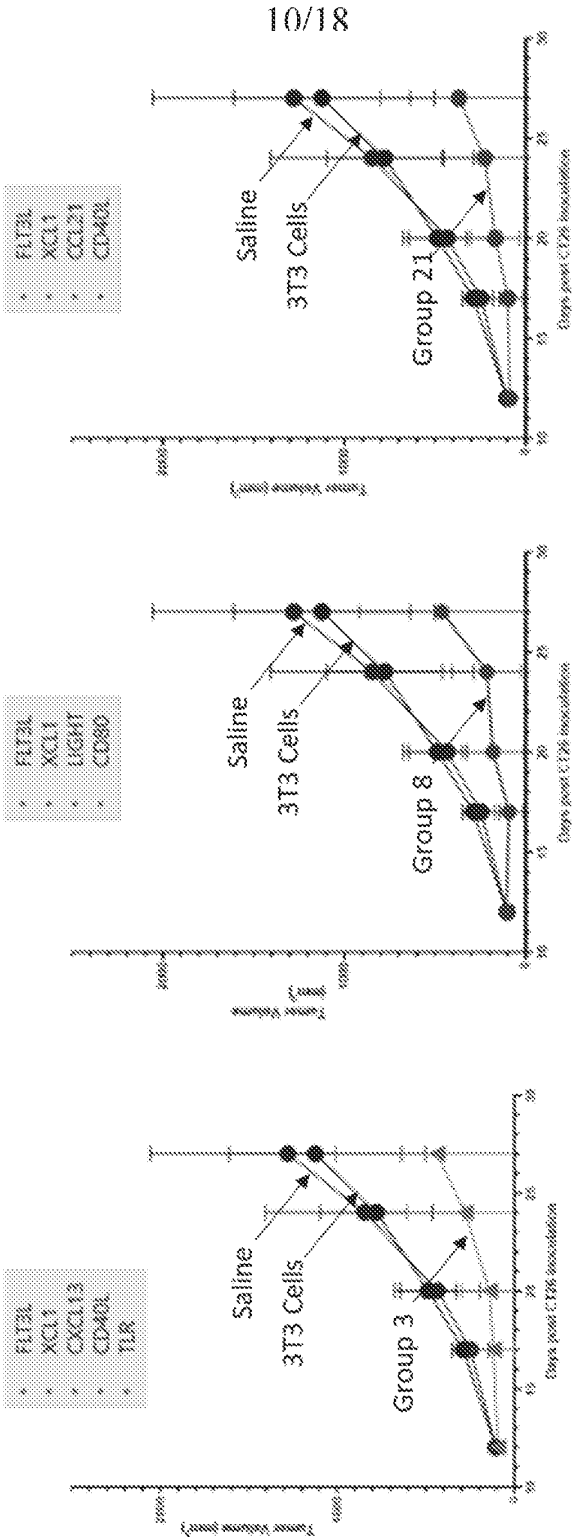


FIG. 11C

FIG. 11B

FIG. 11A

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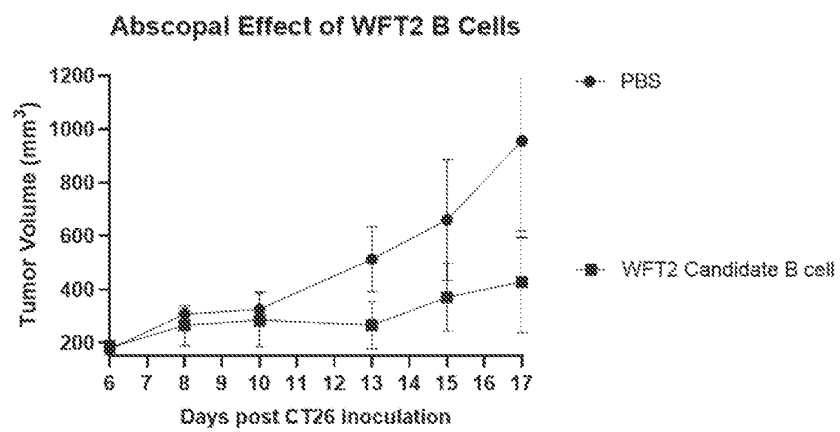


FIG. 12

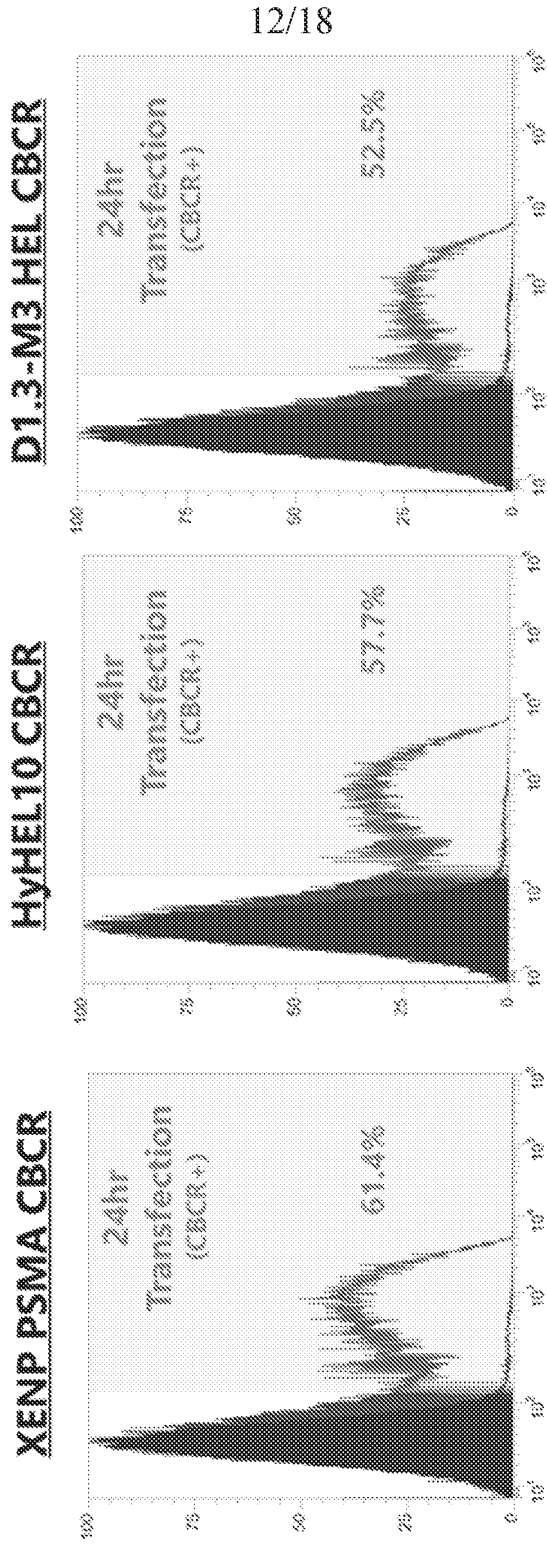


FIG. 13A

FIG. 13B

FIG. 13C

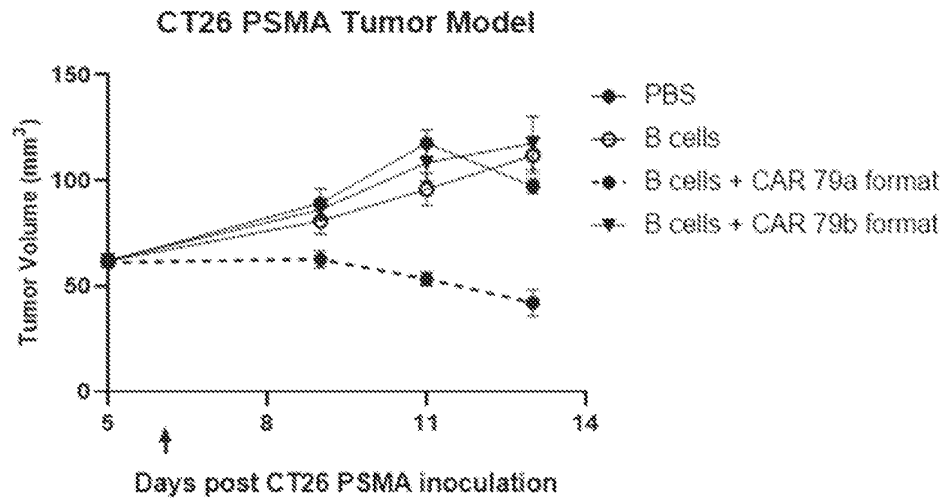


FIG. 14

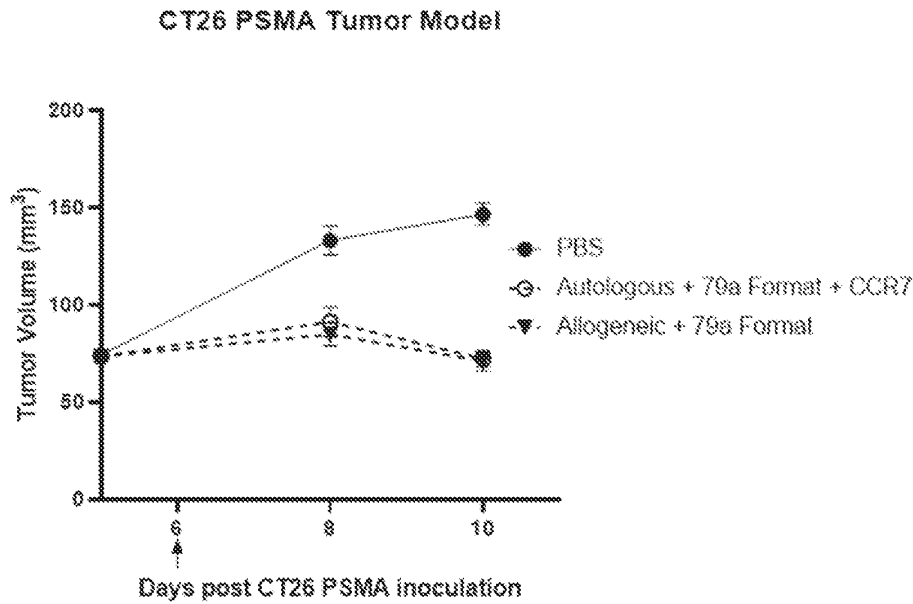


FIG. 15

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CT26 PSMA Tumor Model in NSG Mice

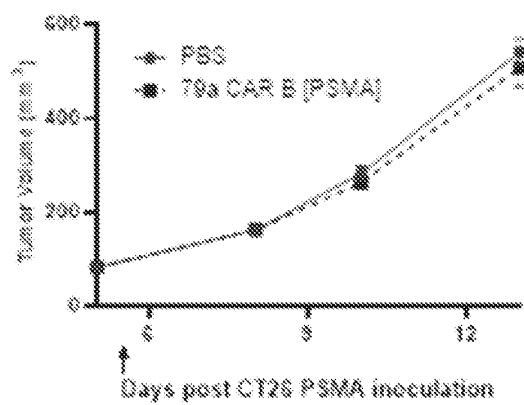


FIG. 16

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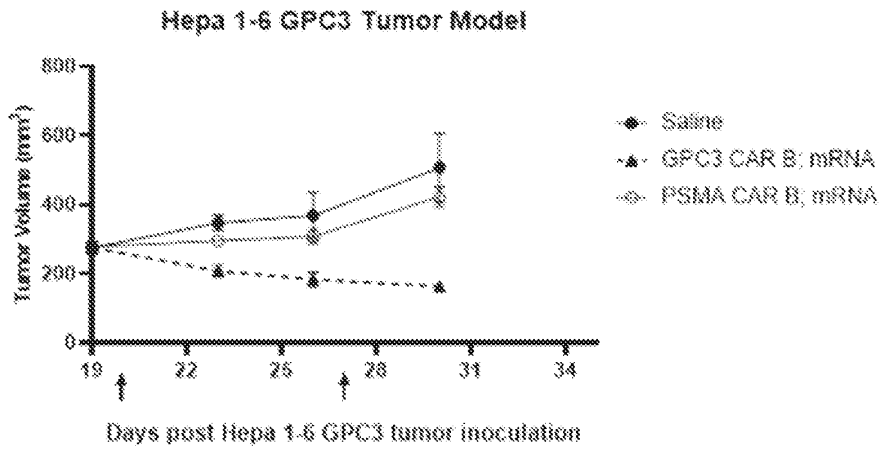


FIG. 17

Co-culture of B cell line expressing CAR-B with
Liver Cell line expressing GPC3
3 Hrs of Co-Culture

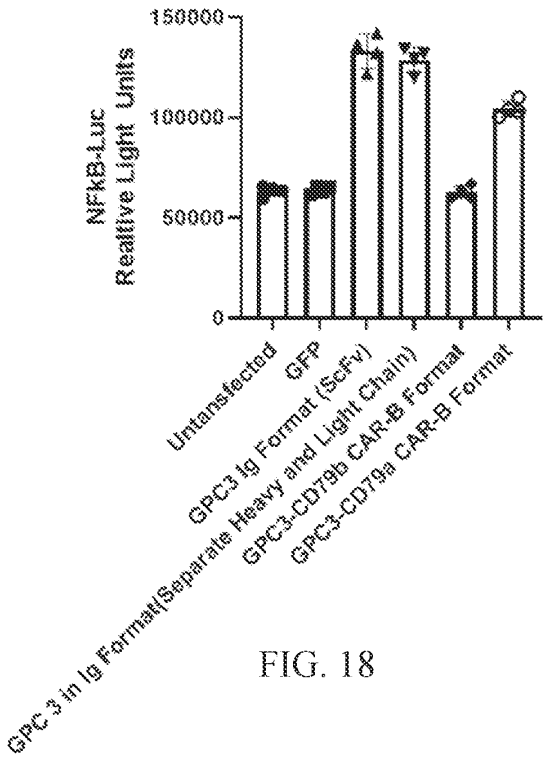


FIG. 18

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Tonic Signaling - No Crosslinker

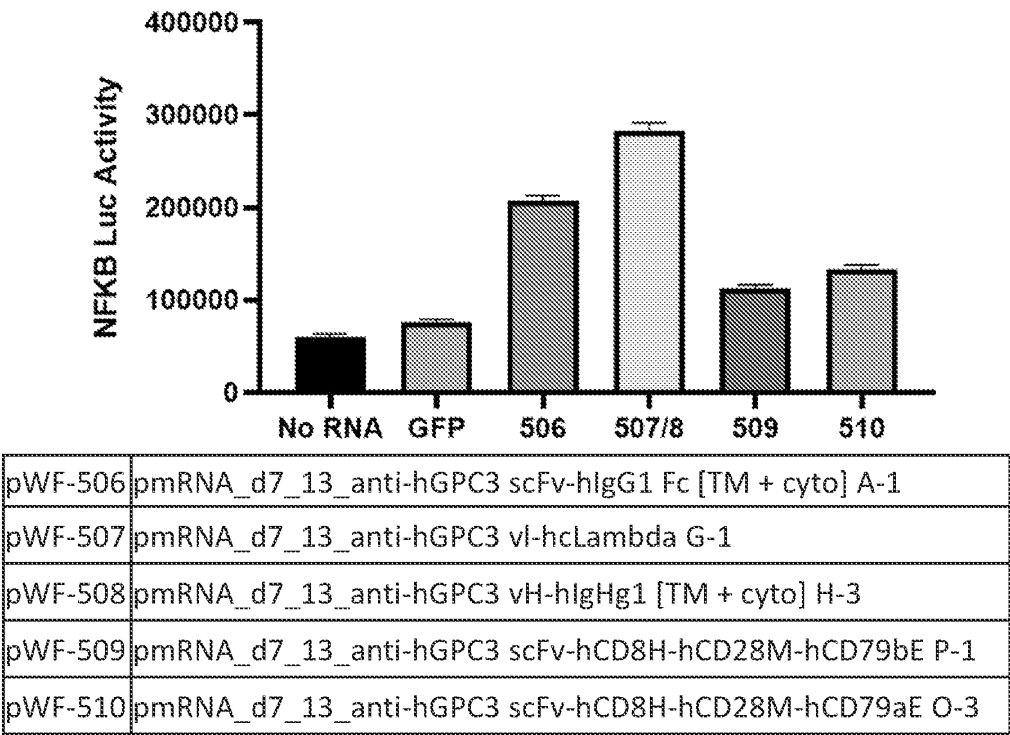


FIG. 19

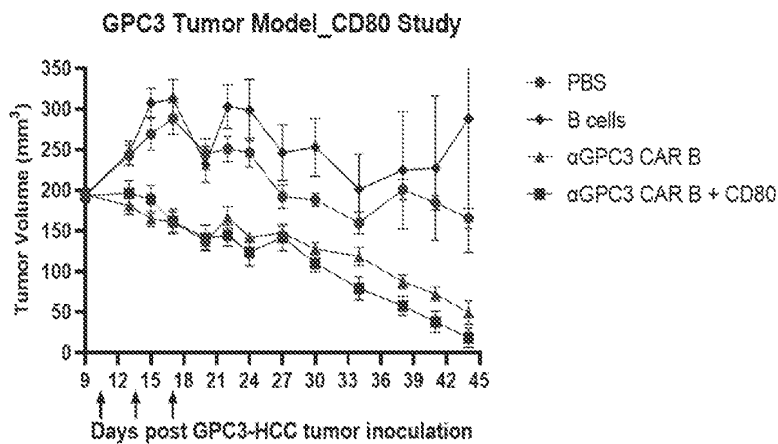


FIG. 20

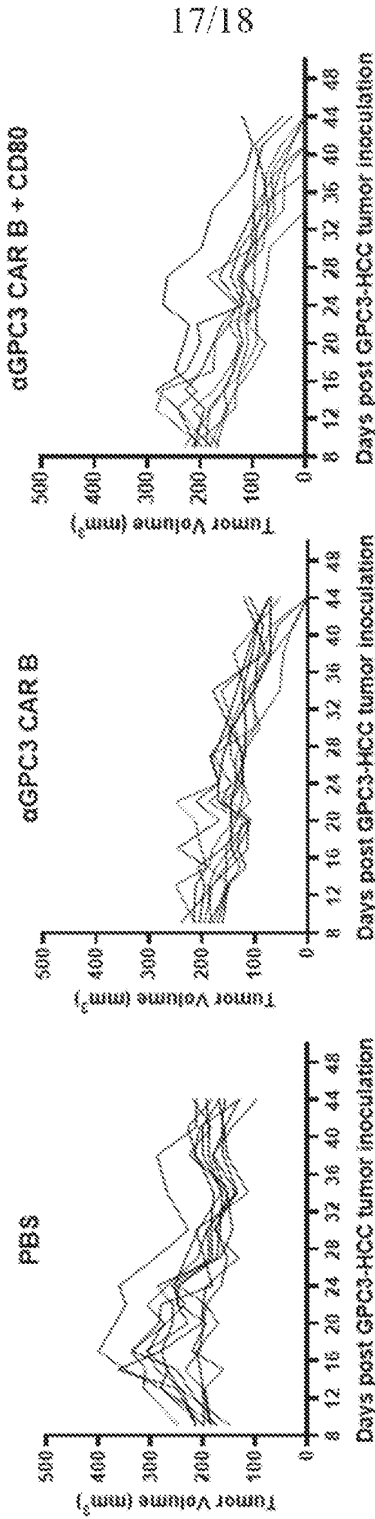
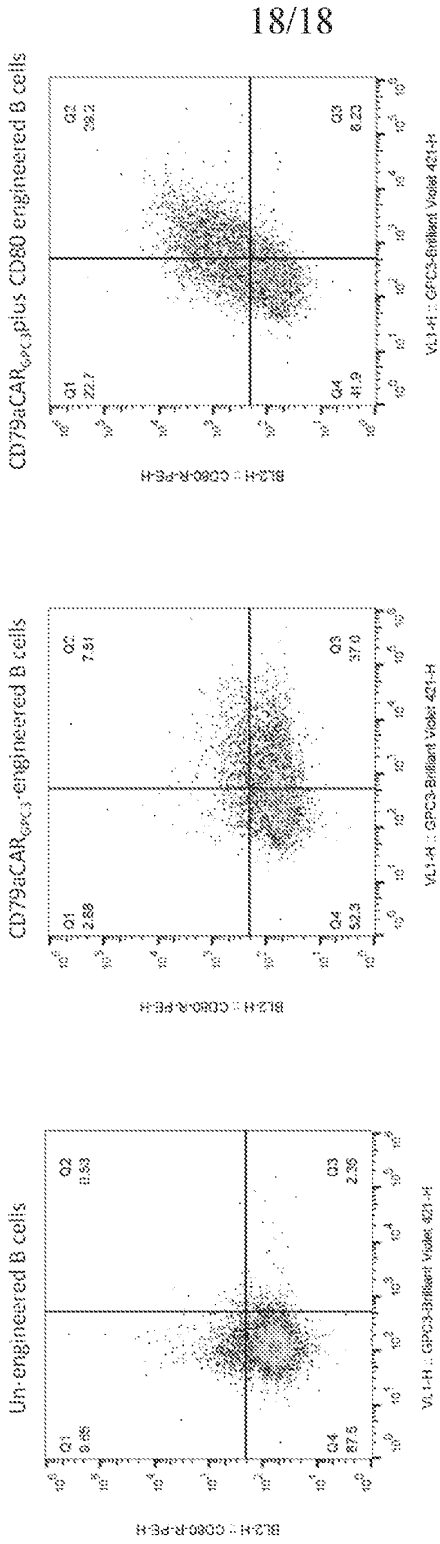


FIG. 21A

FIG. 21B

FIG. 21C



B cell-electrolytes
Live Dead-Fixable Near IR-H, SSC-A subseal
8258

FIG. 22A

B cells with 545 fcs
Live Dead-Fixable Near IR-H, SSC-A subseal
8878

FIG. 22B

B with 548 and C650 fcs
Live Dead-Fixable Near IR-H, SSC-A subseal
7276

FIG. 22C