

1/40

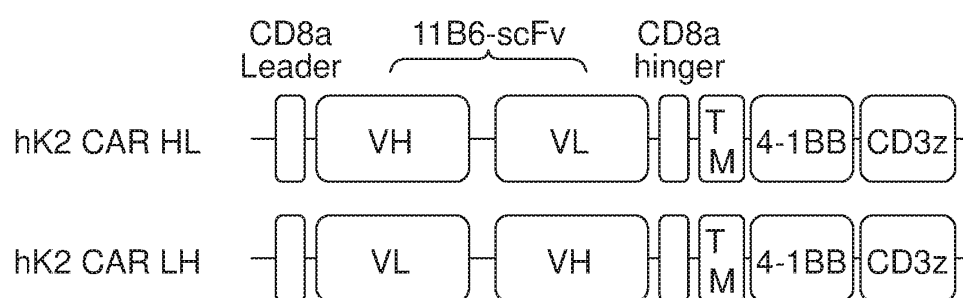
FIG. 1A

FIG. 1B

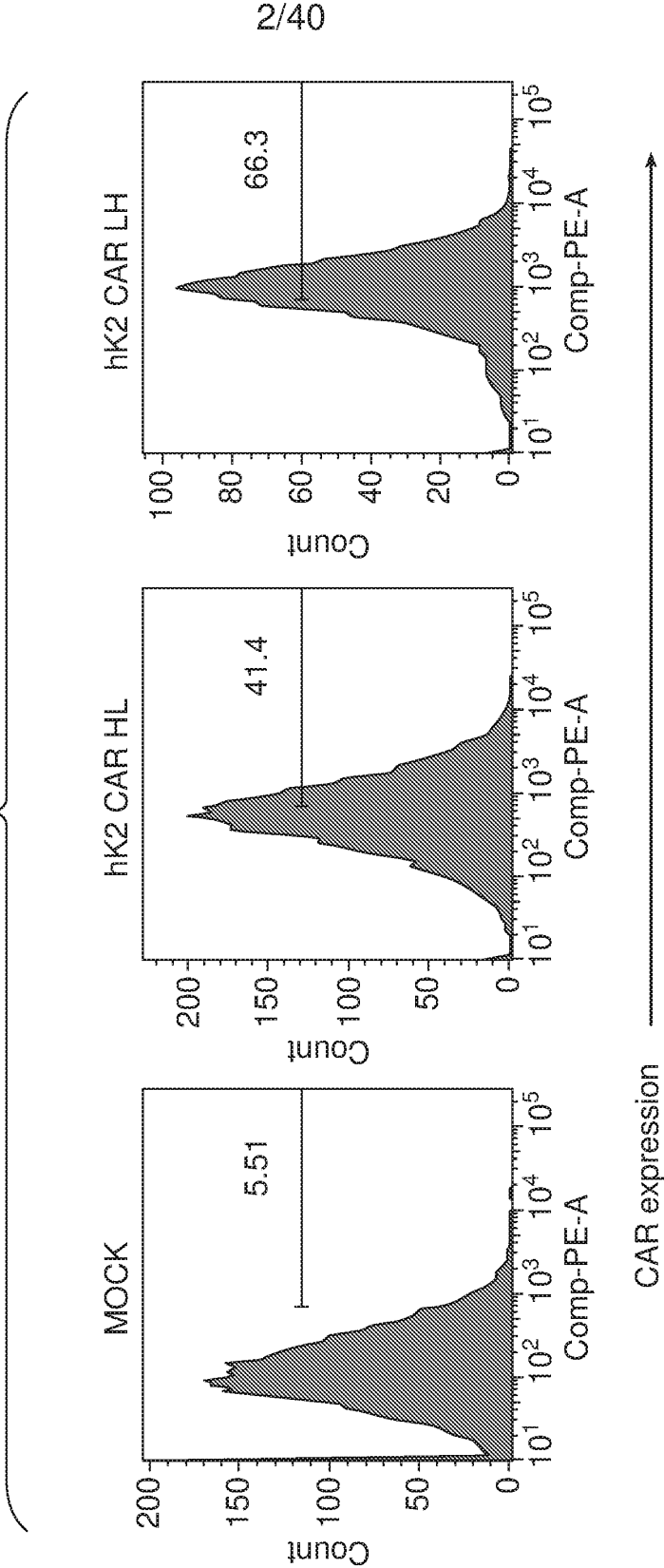
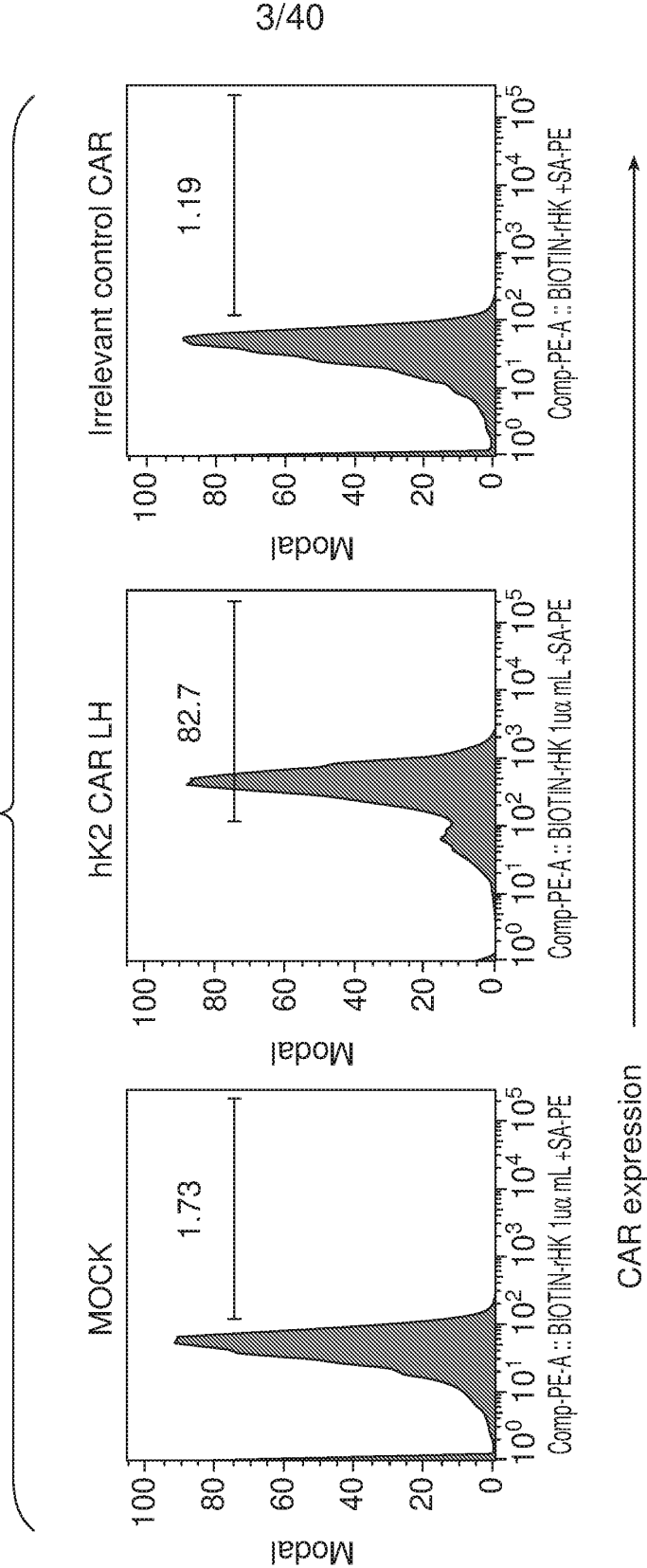


FIG. 1C



4/40

FIG. 2

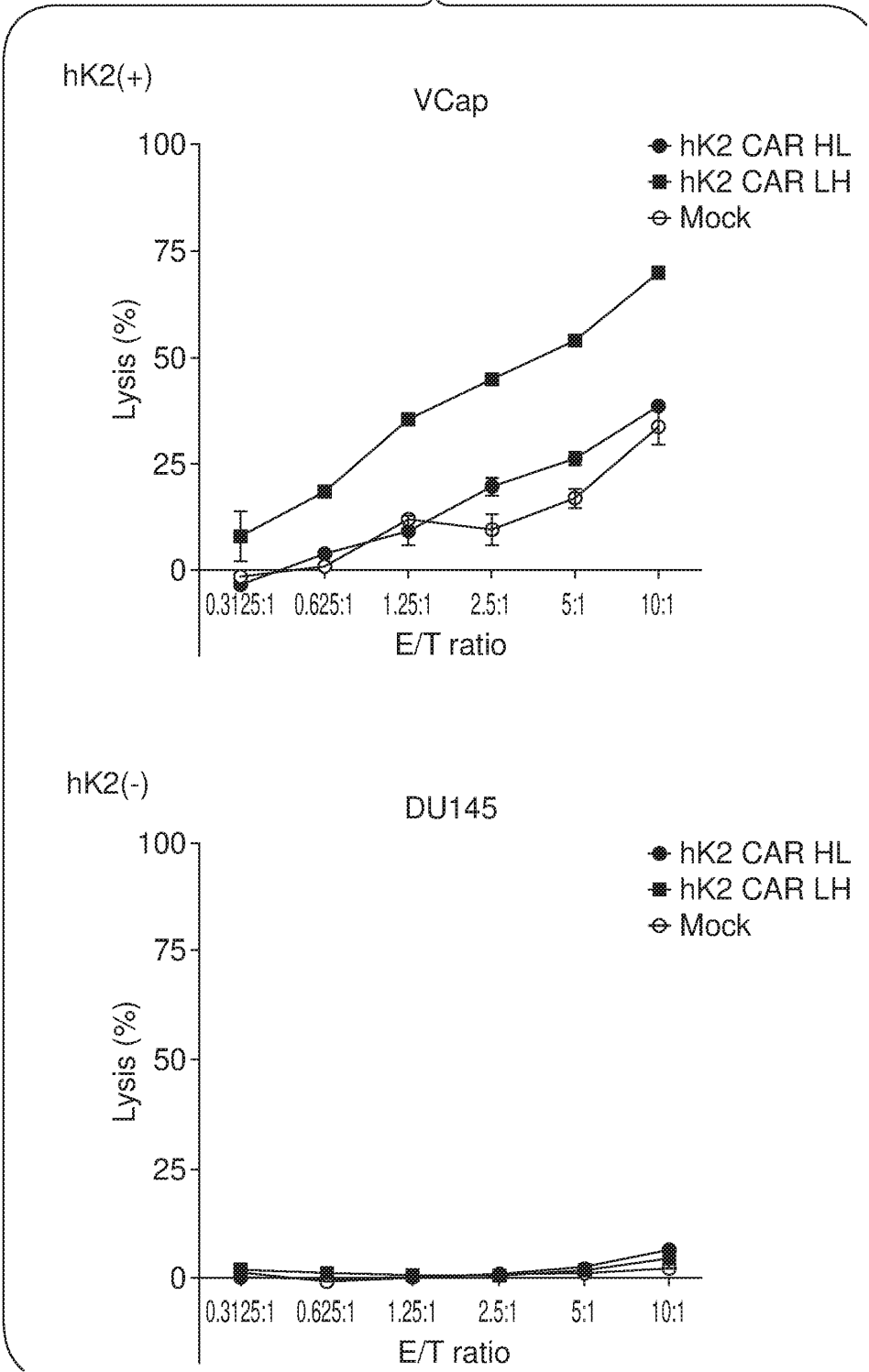


FIG. 3A

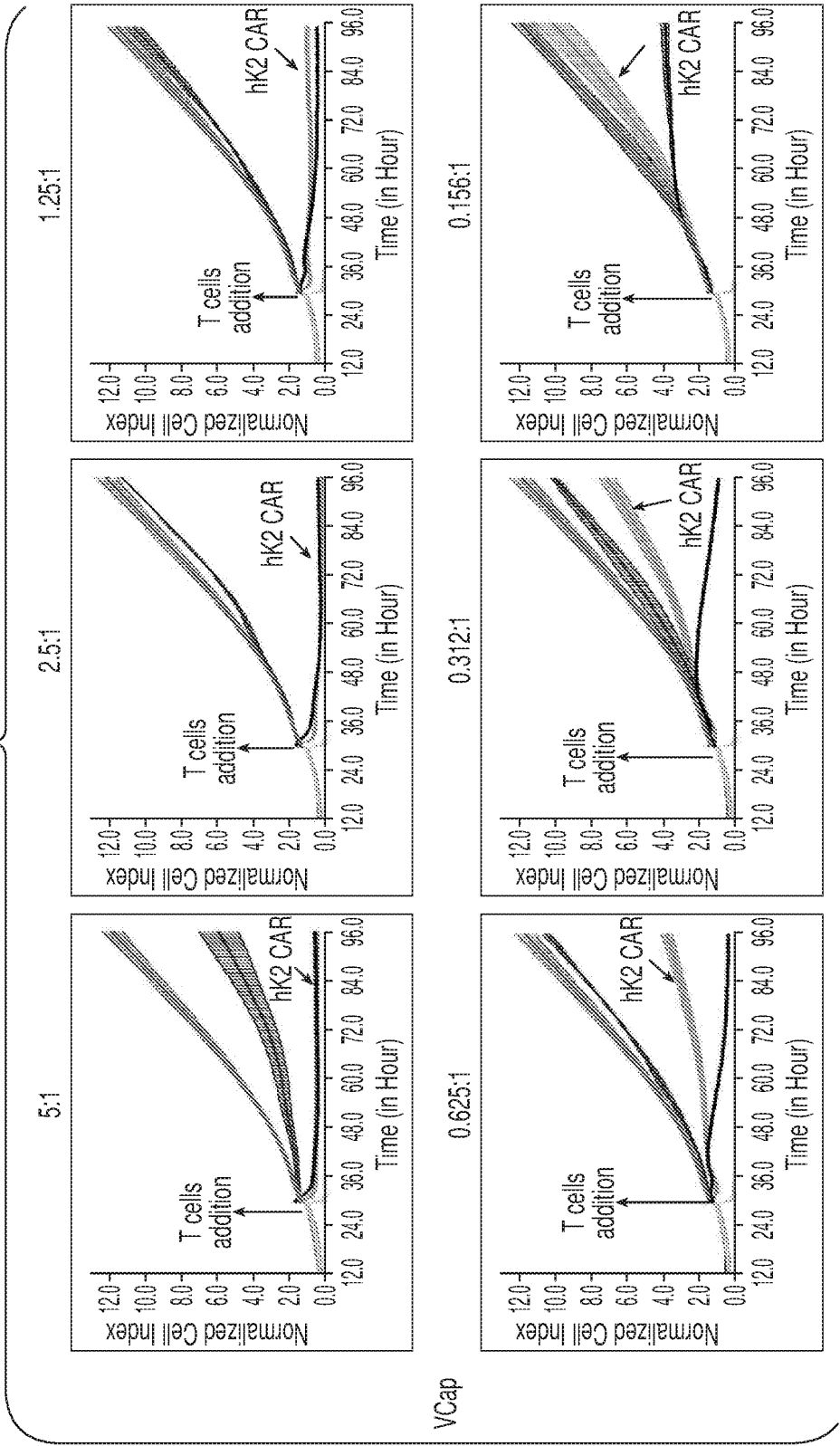
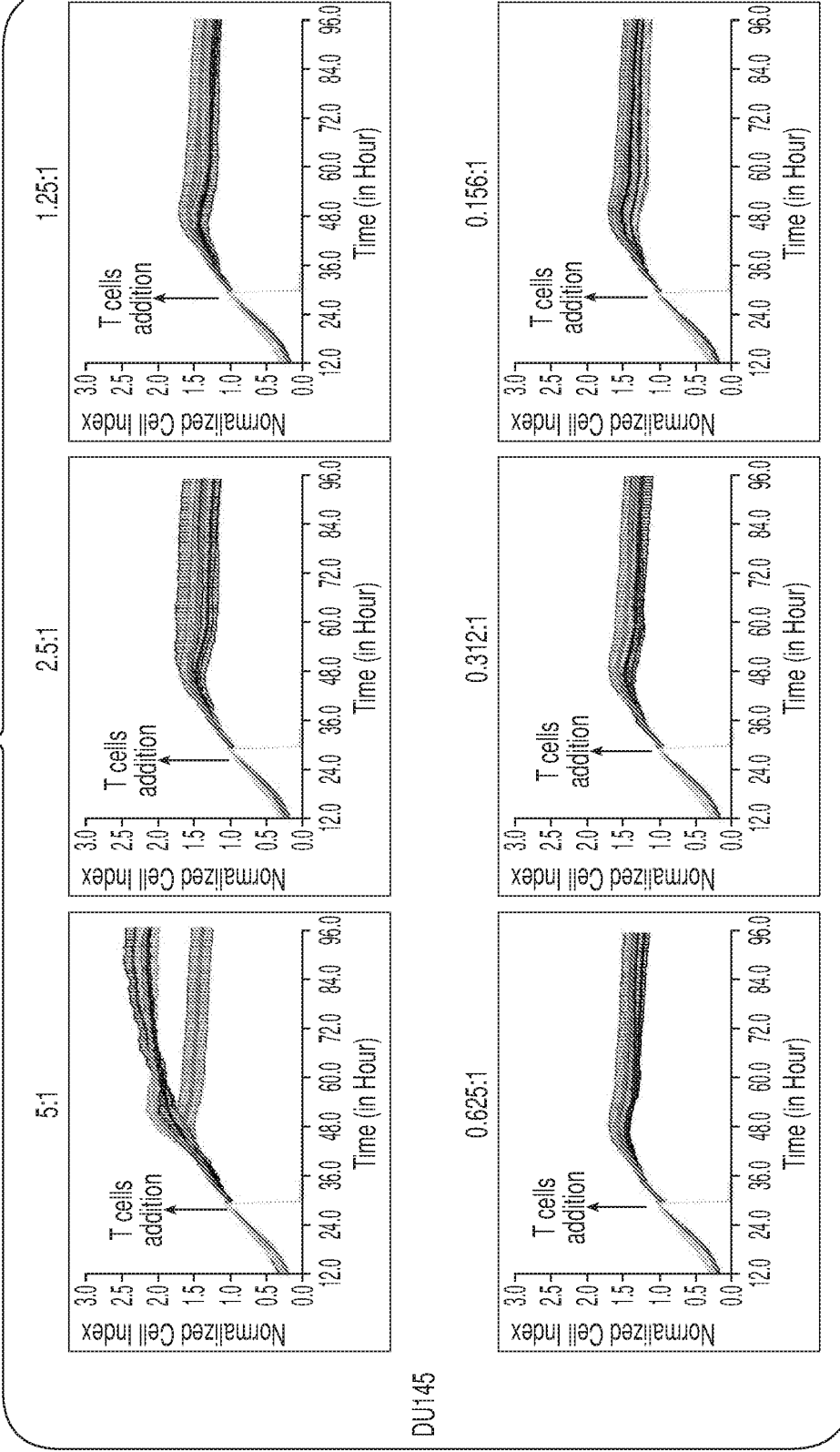


FIG. 3B



7/40

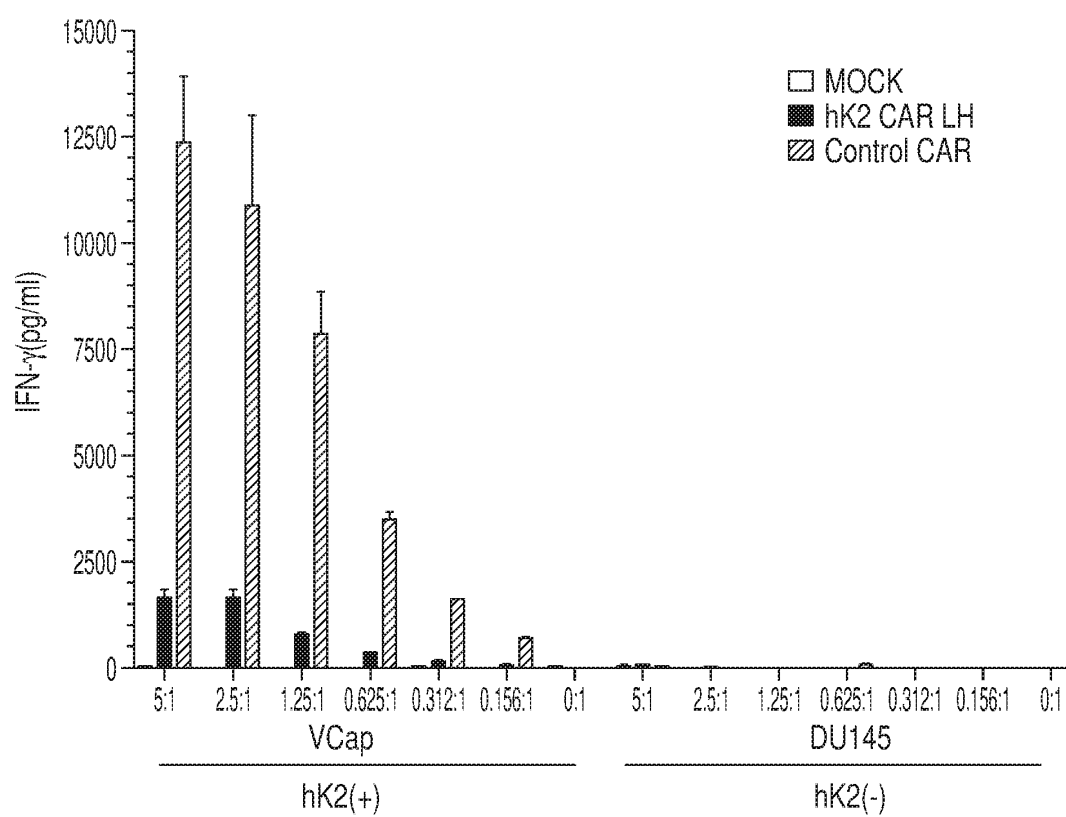
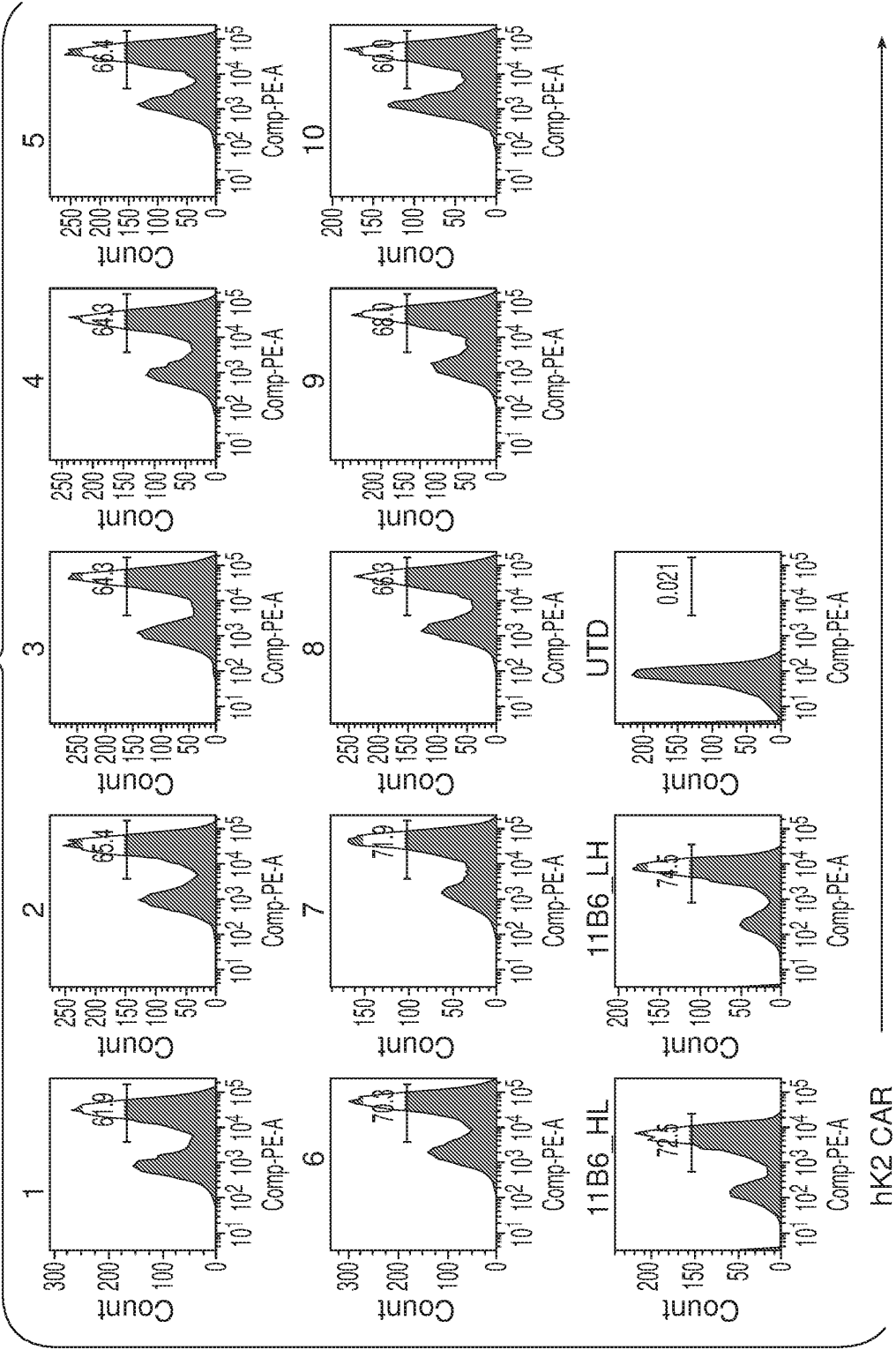
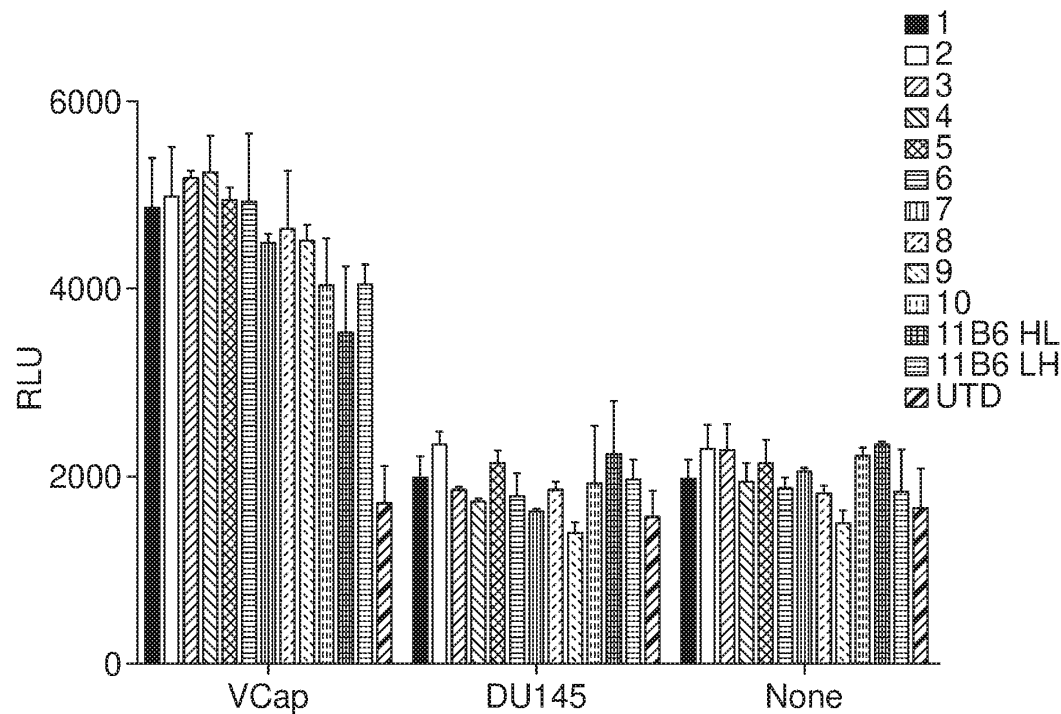
FIG. 4

FIG. 5A



9/40

FIG. 5B



10/40

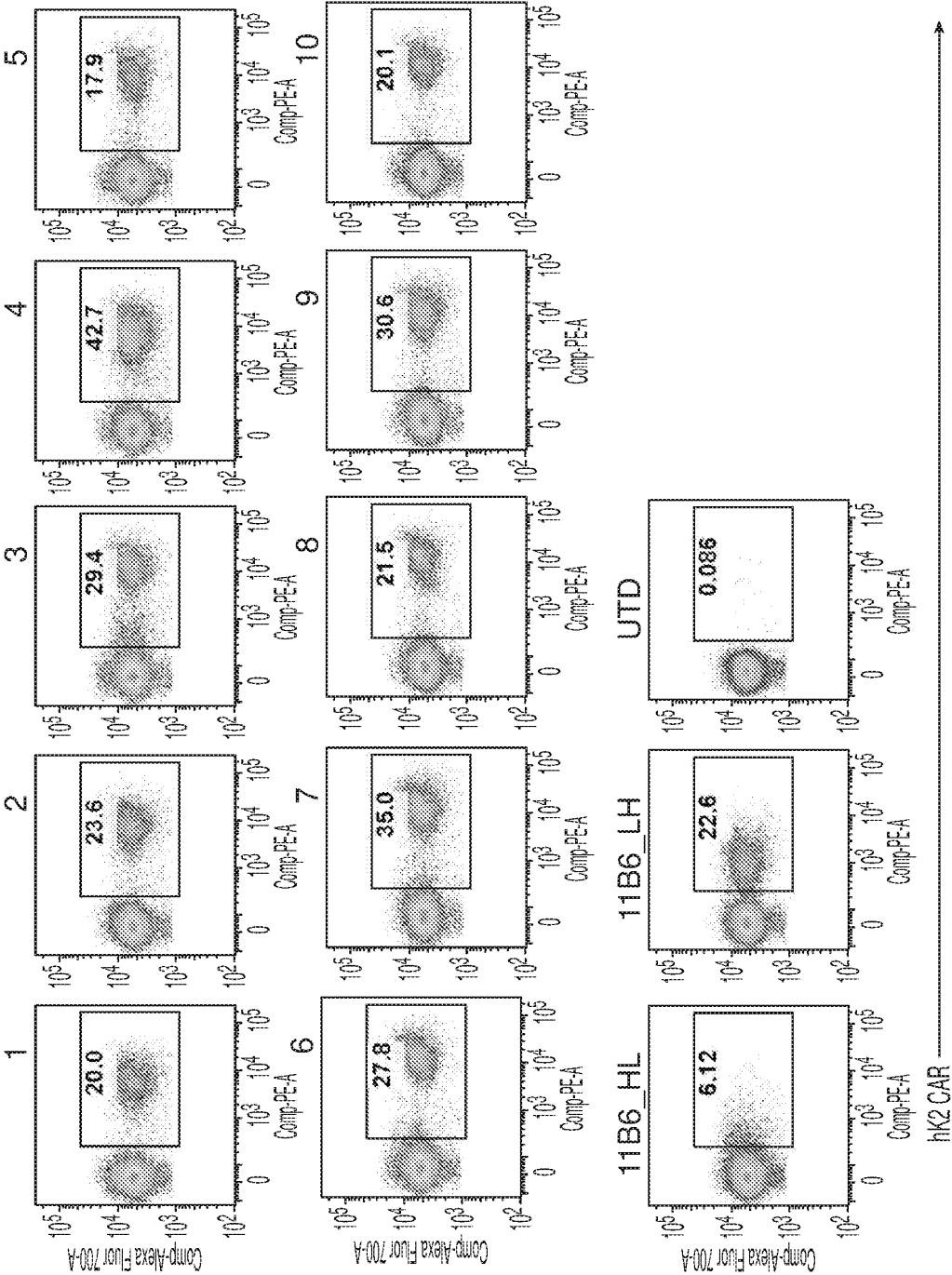


FIG. 6

FIG. 7A

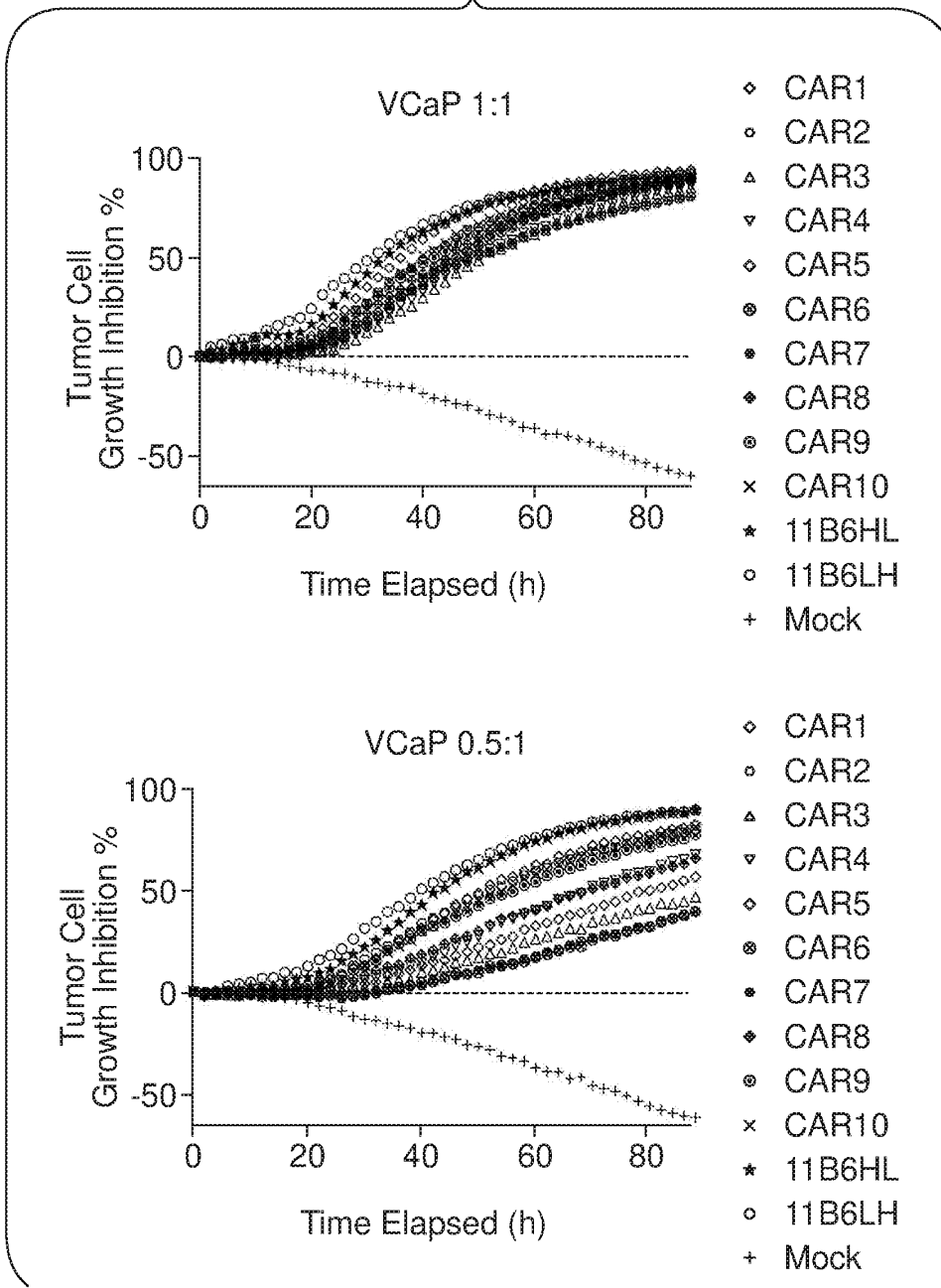


FIG. 7B

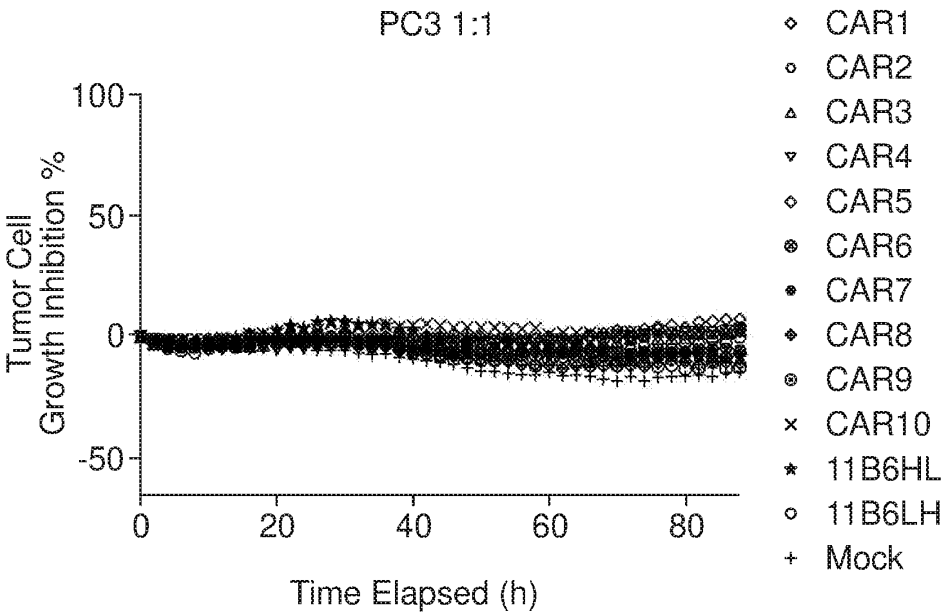
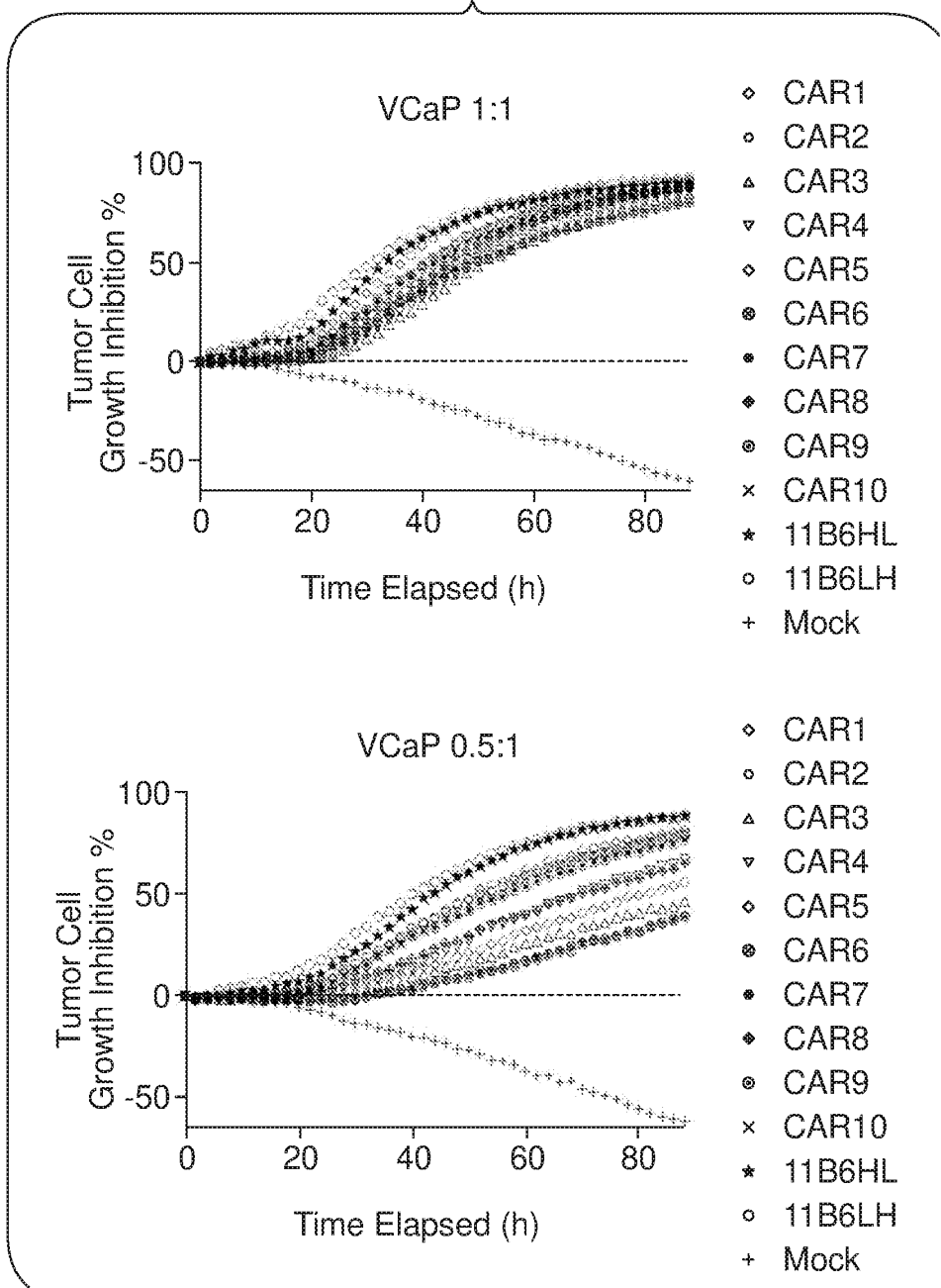


FIG. 7C



14/40

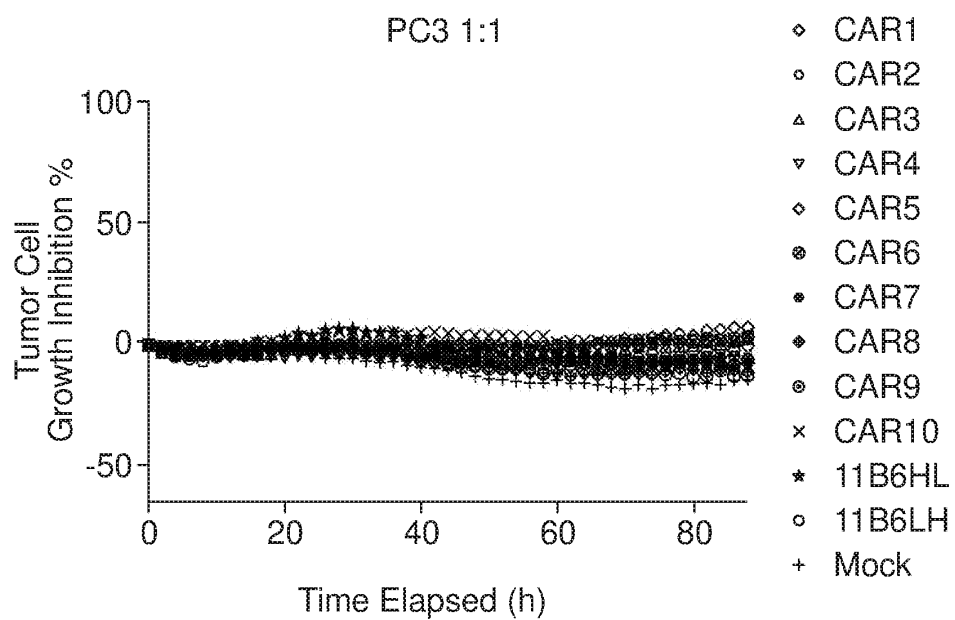
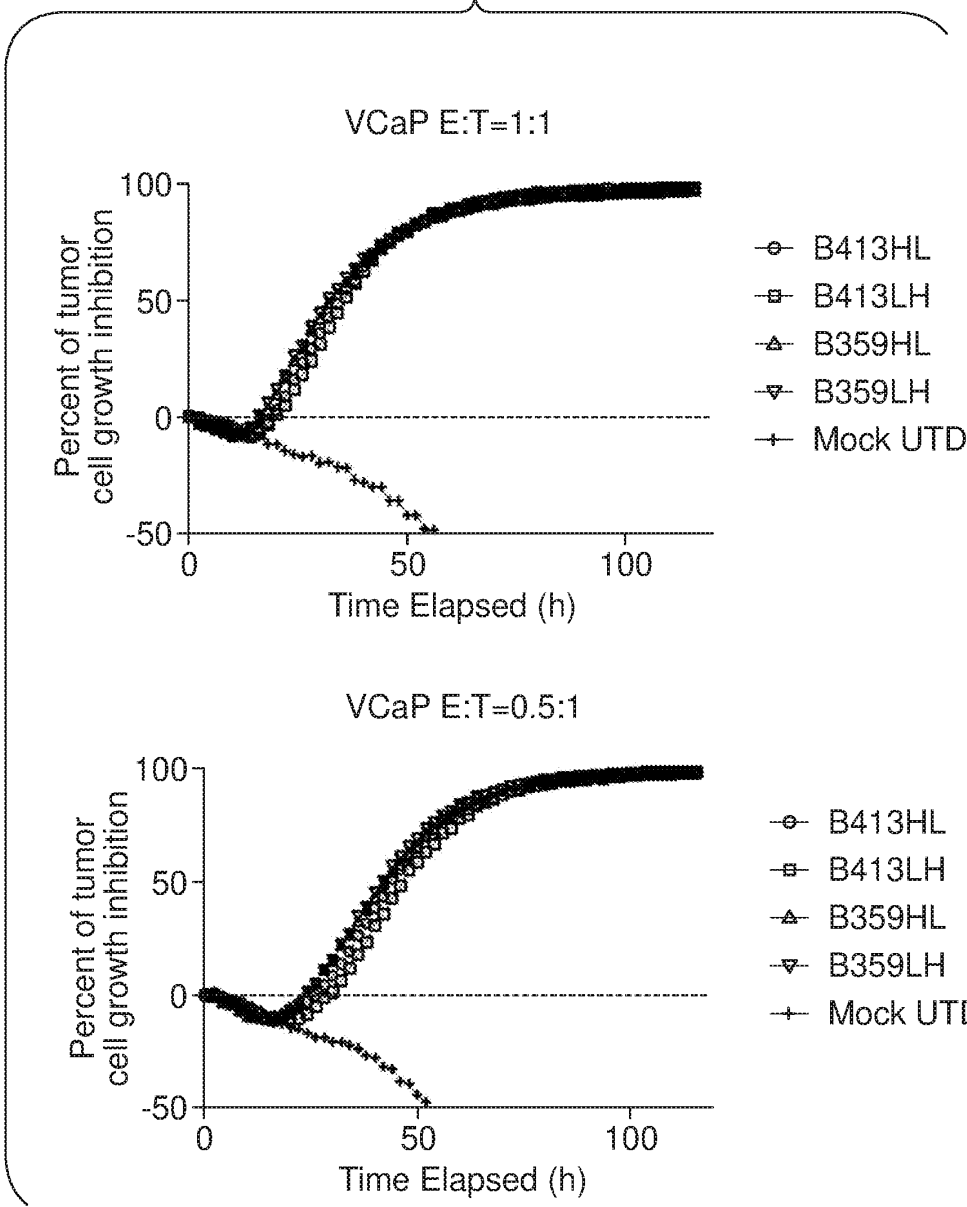
FIG. 7D

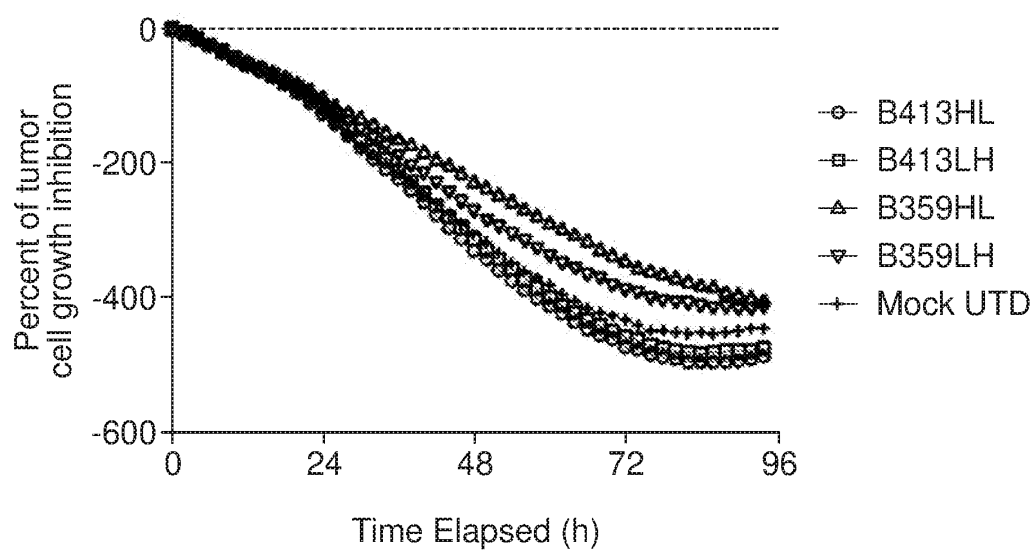
FIG. 7E

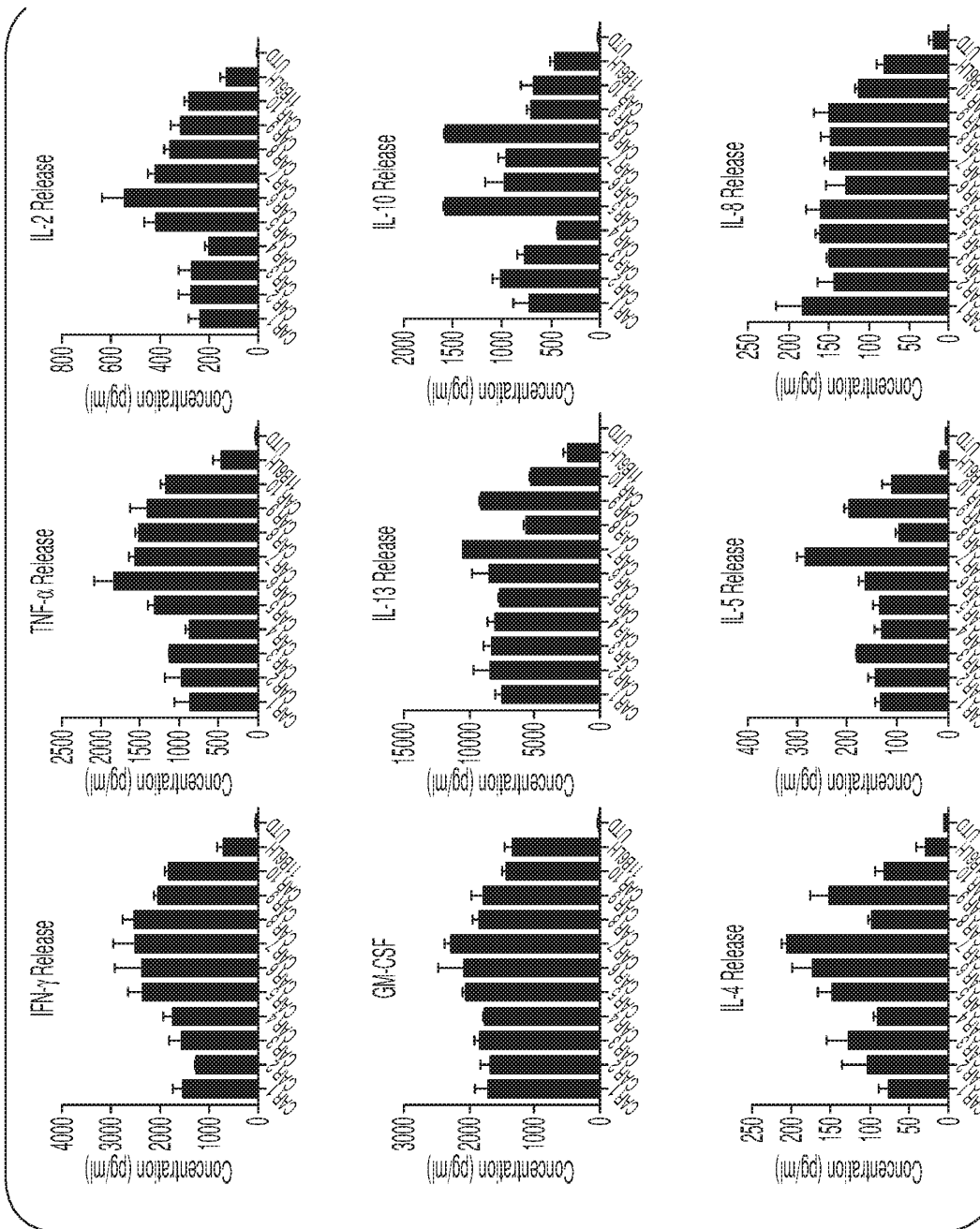


16/40

FIG. 7F

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18/40

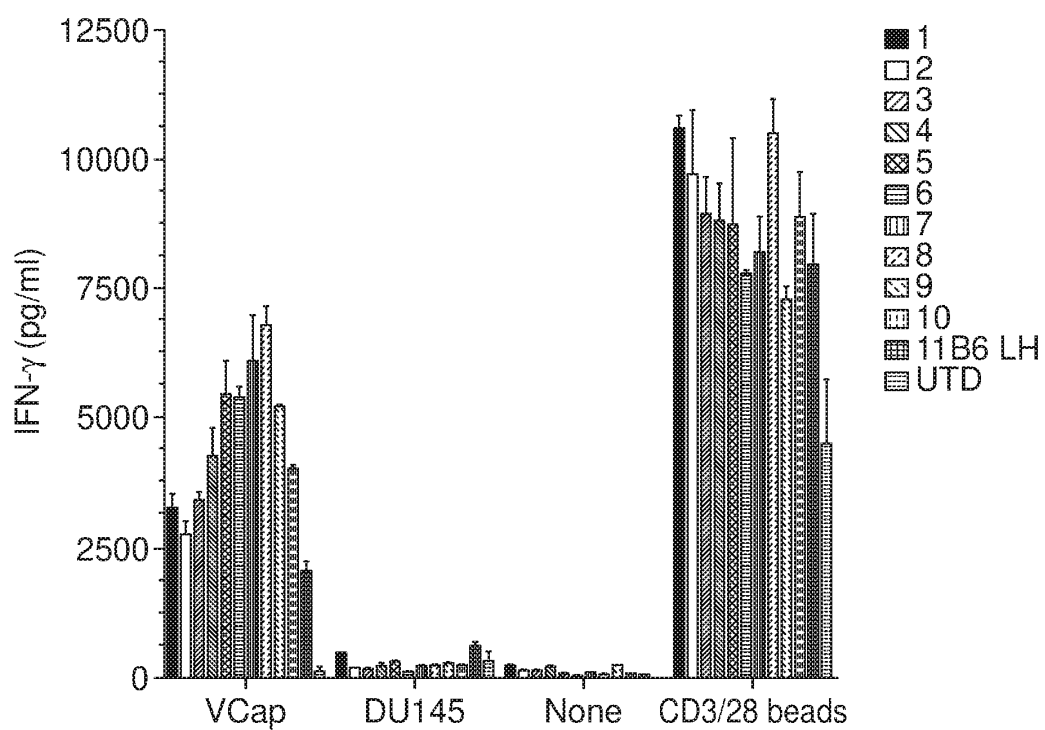
FIG. 9

FIG. 10A

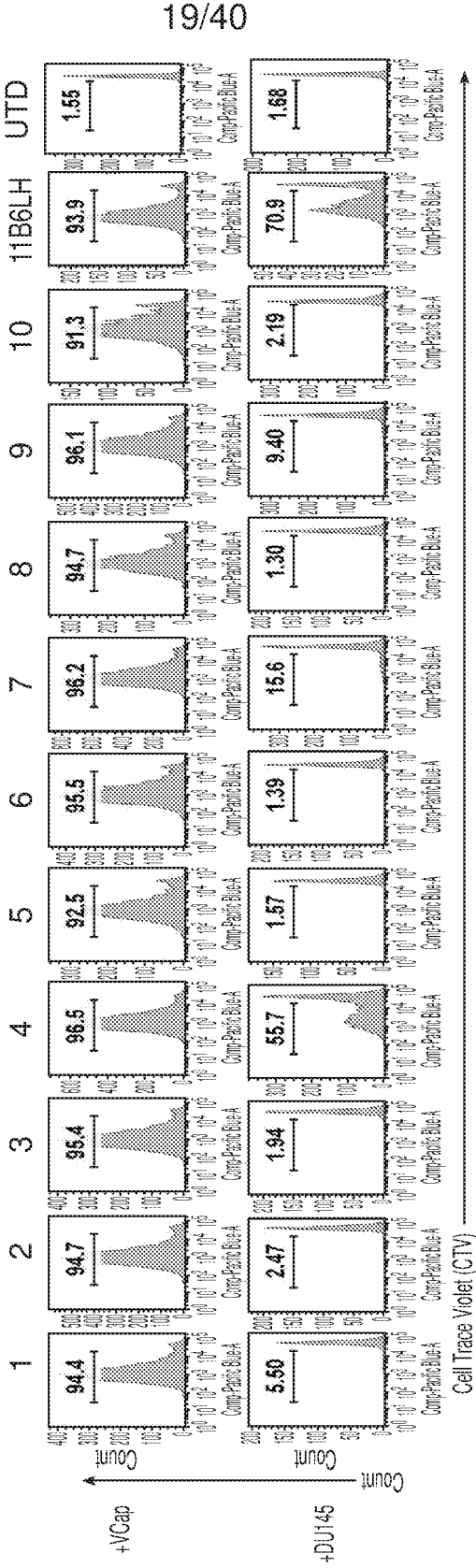


FIG. 10B

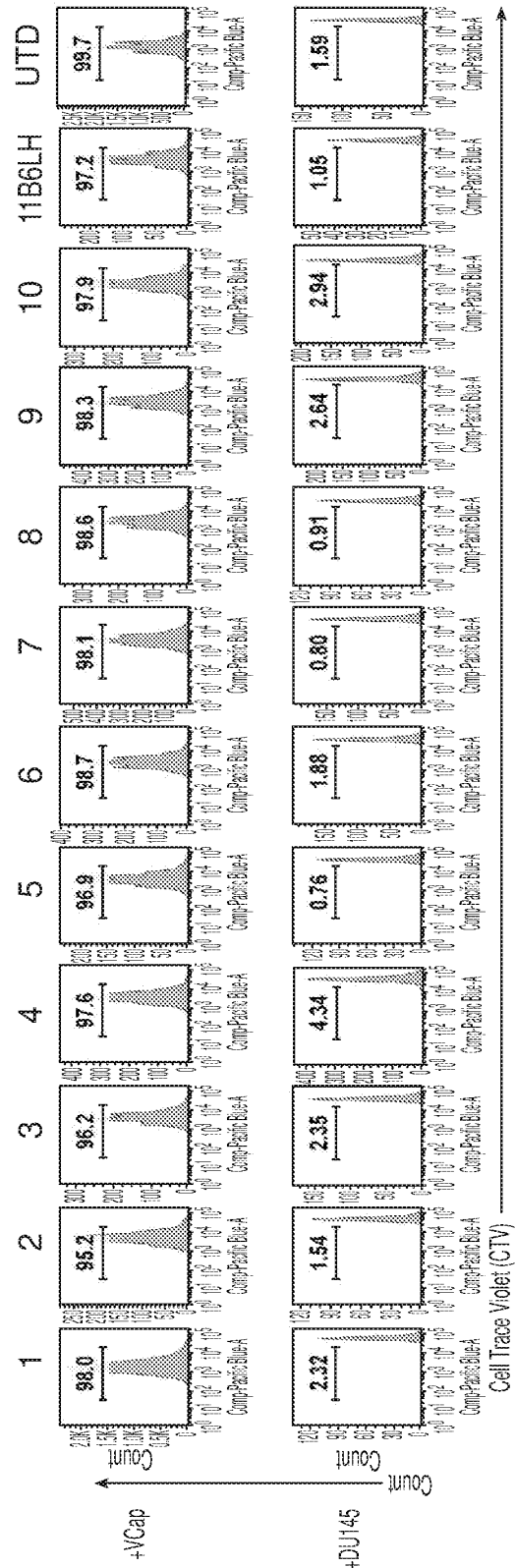


FIG. 10C

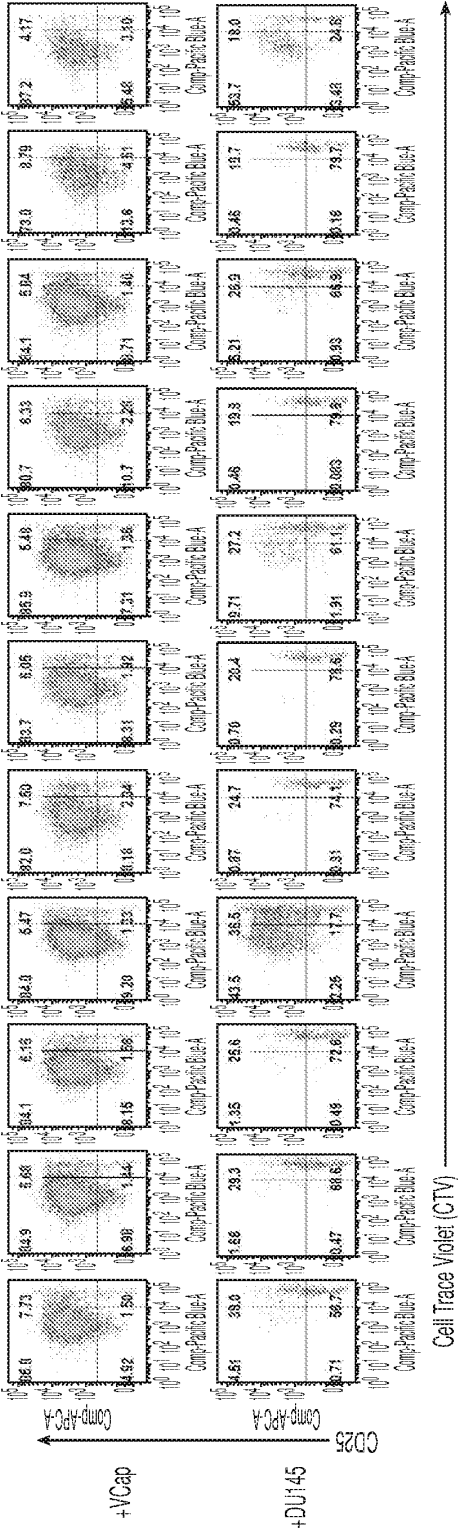


FIG. 10D

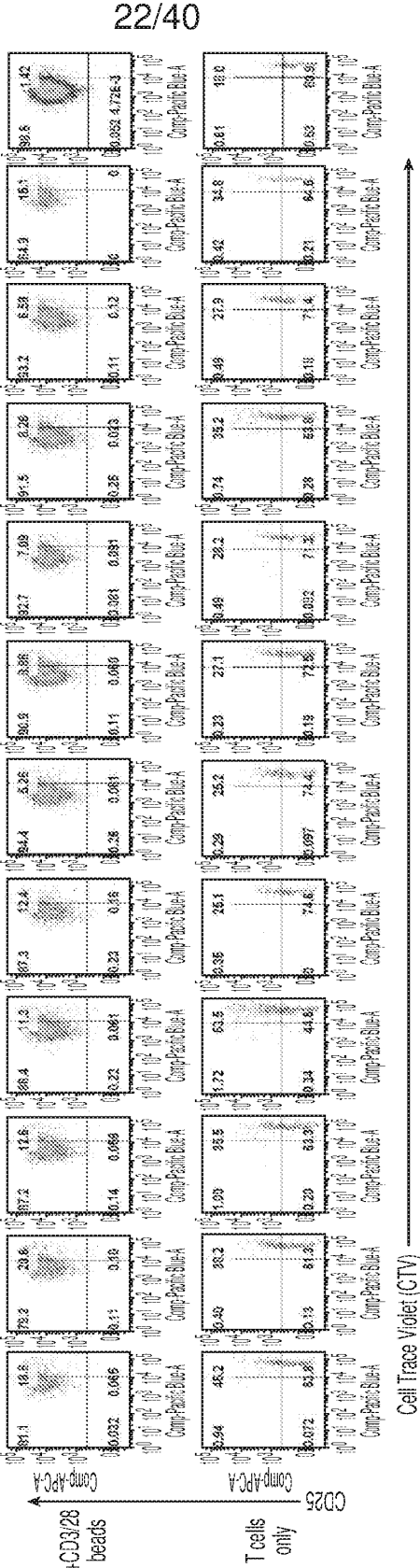
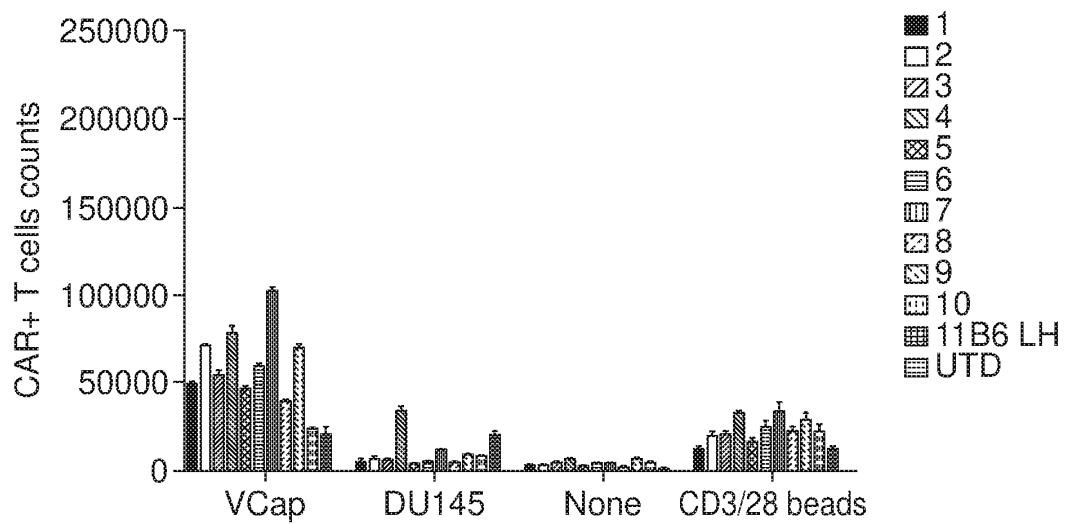


FIG. 10E



24/40

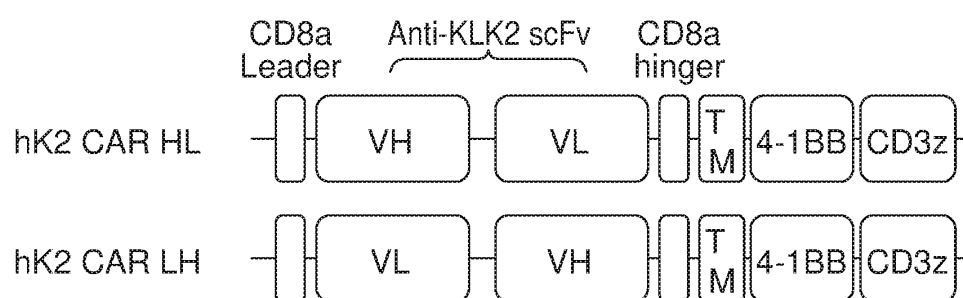
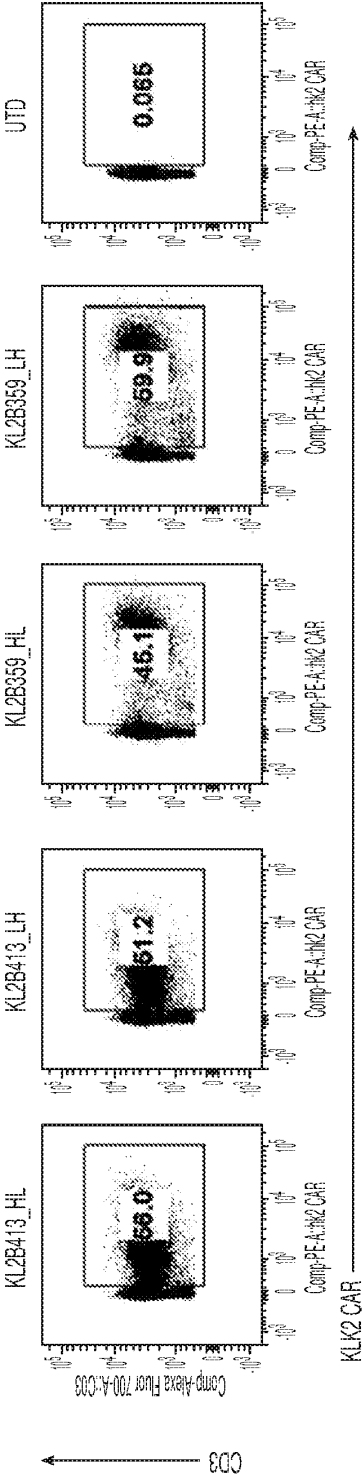
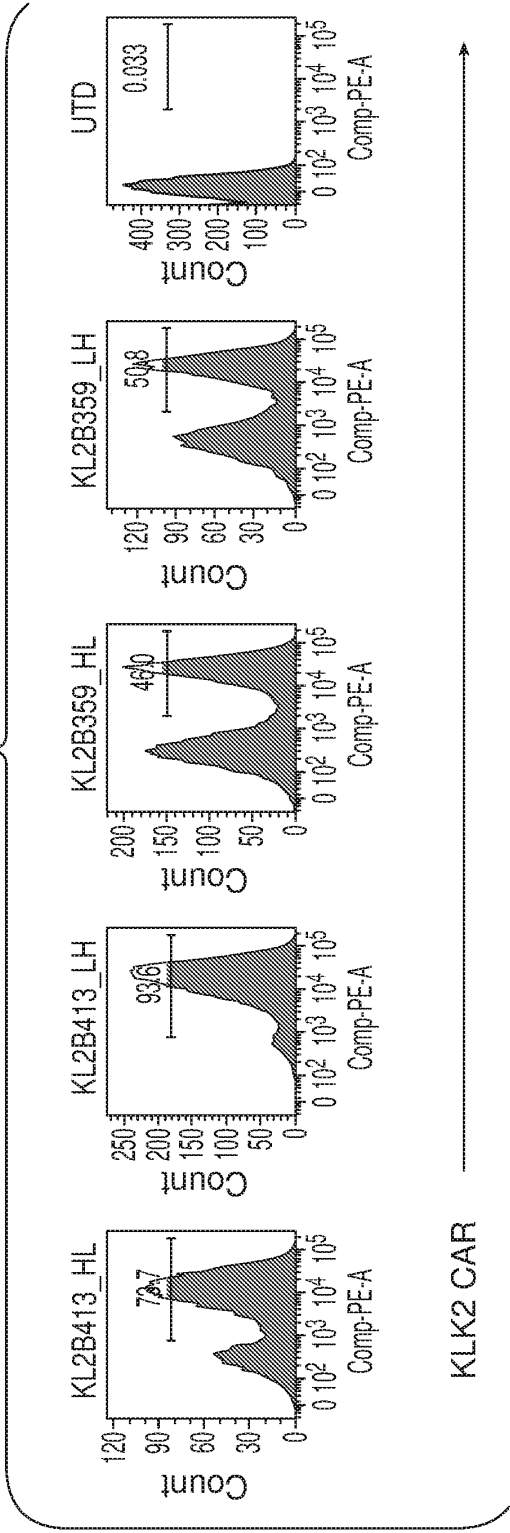
FIG. 11A

FIG. 11B



26/40

FIG. 12A



27/40

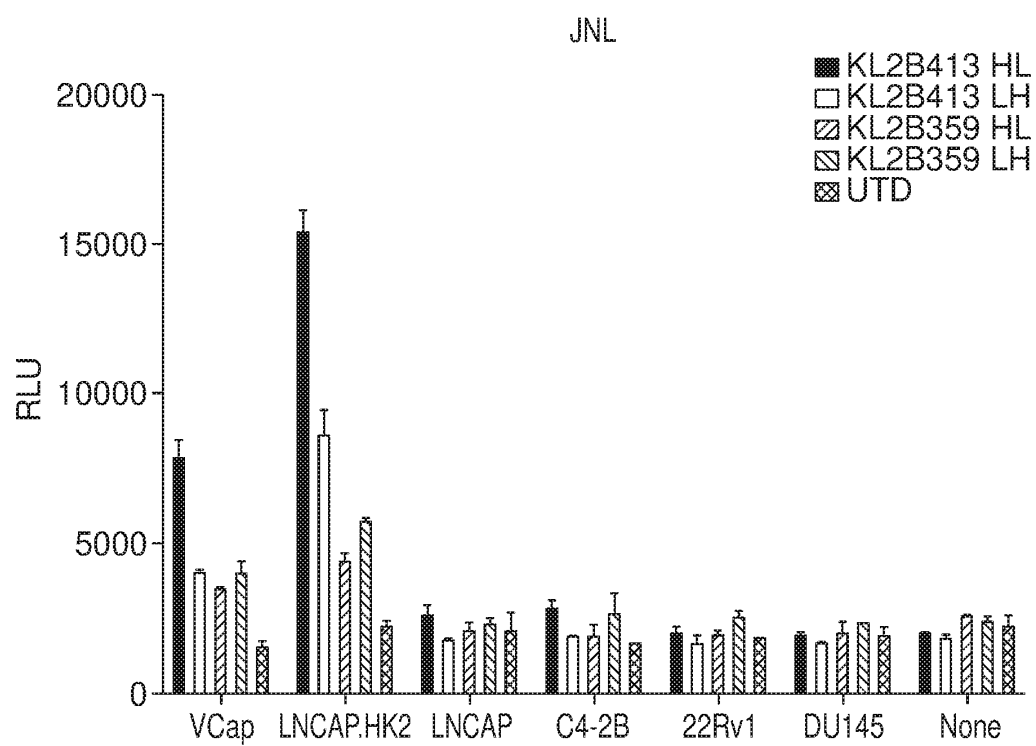
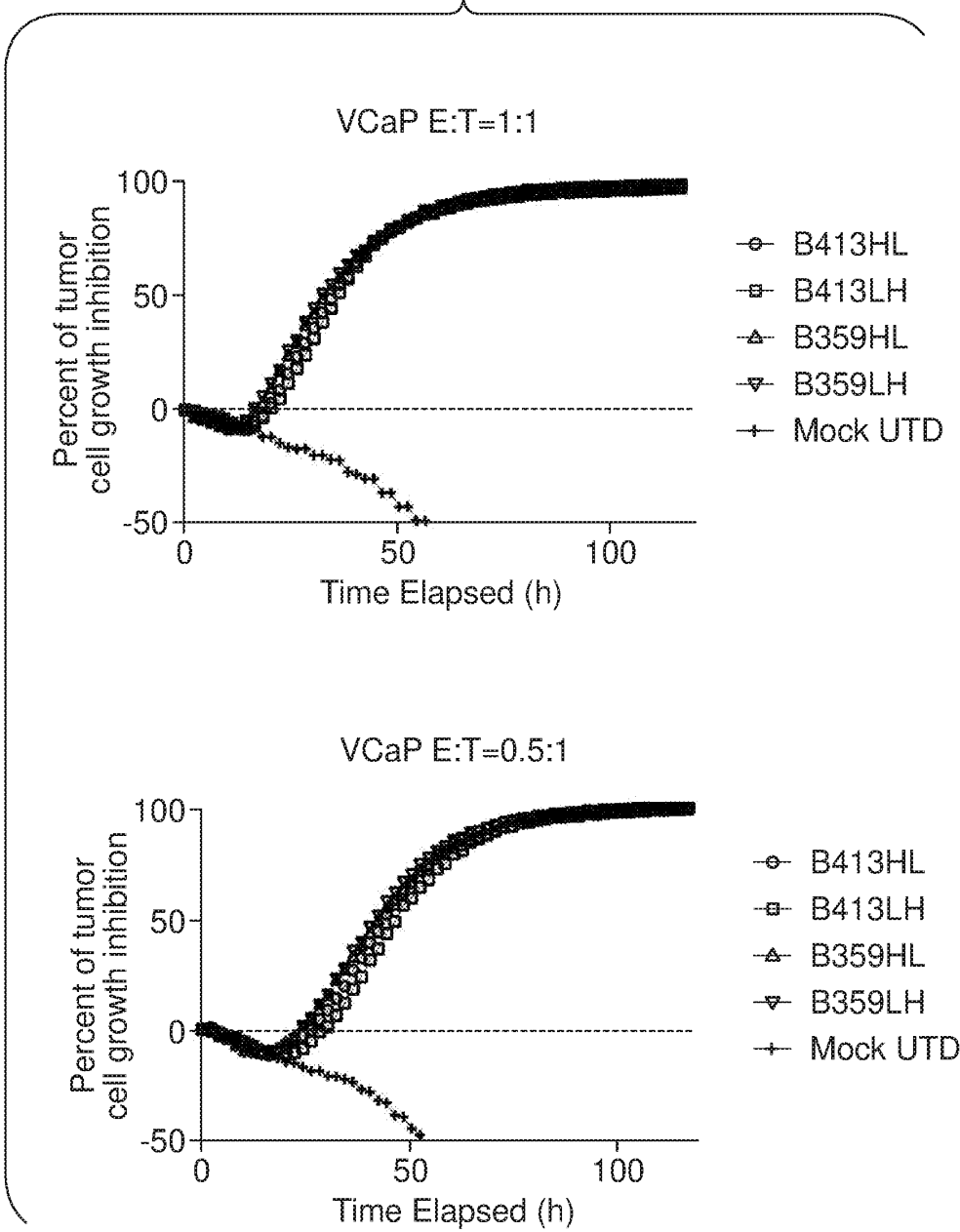
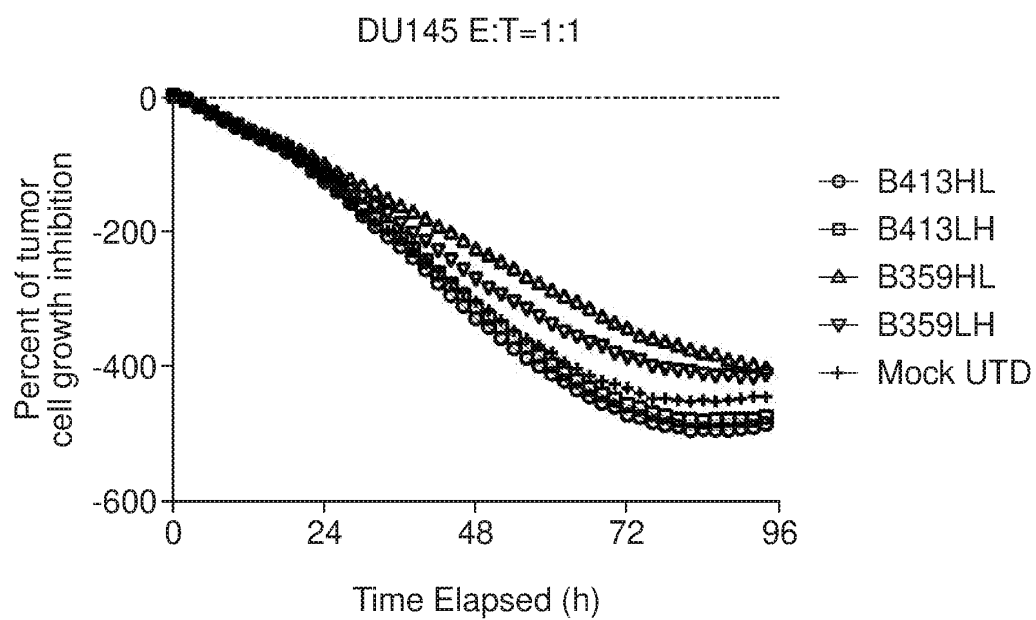
FIG. 12B

FIG. 13A



29/40

FIG. 13B

30/40

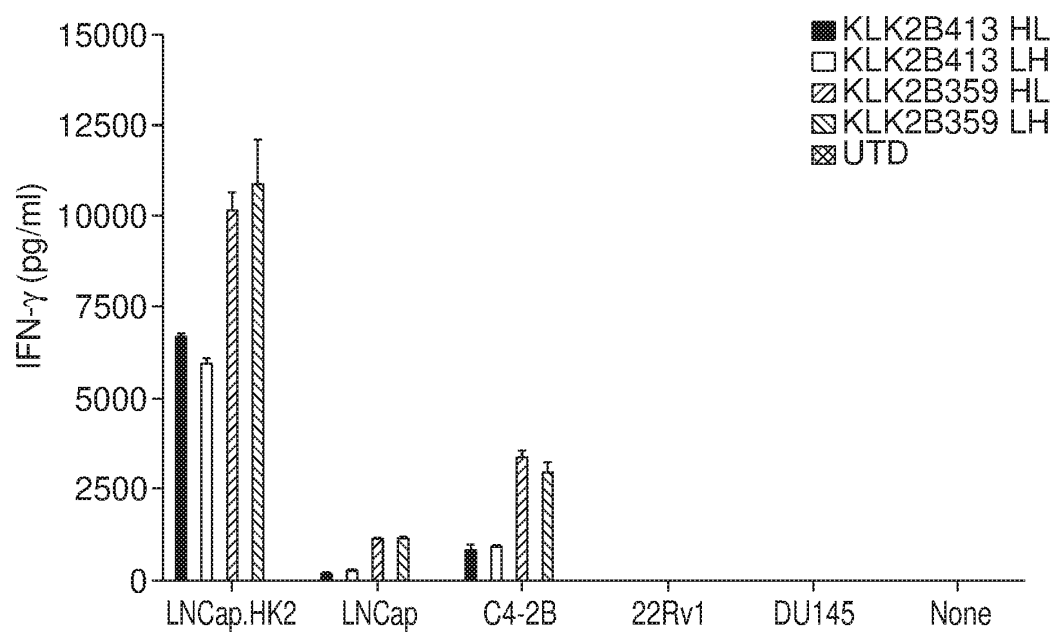
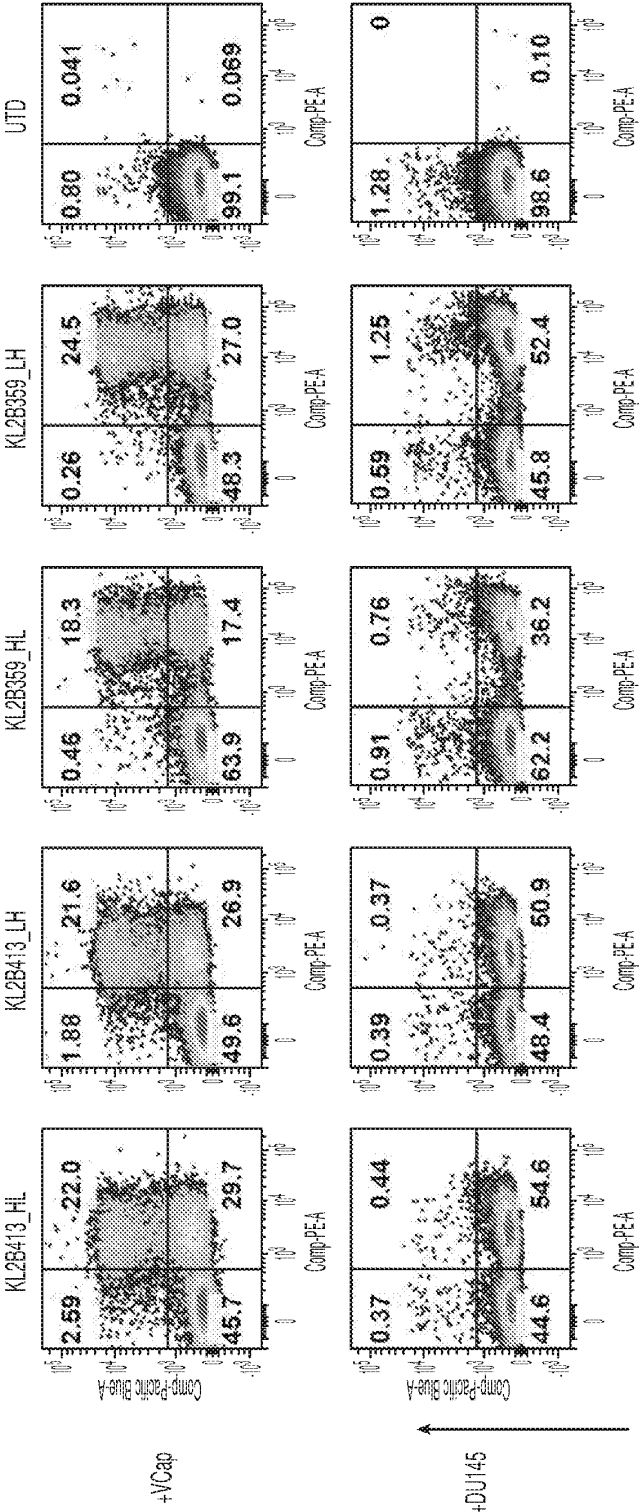
FIG. 14

FIG. 15



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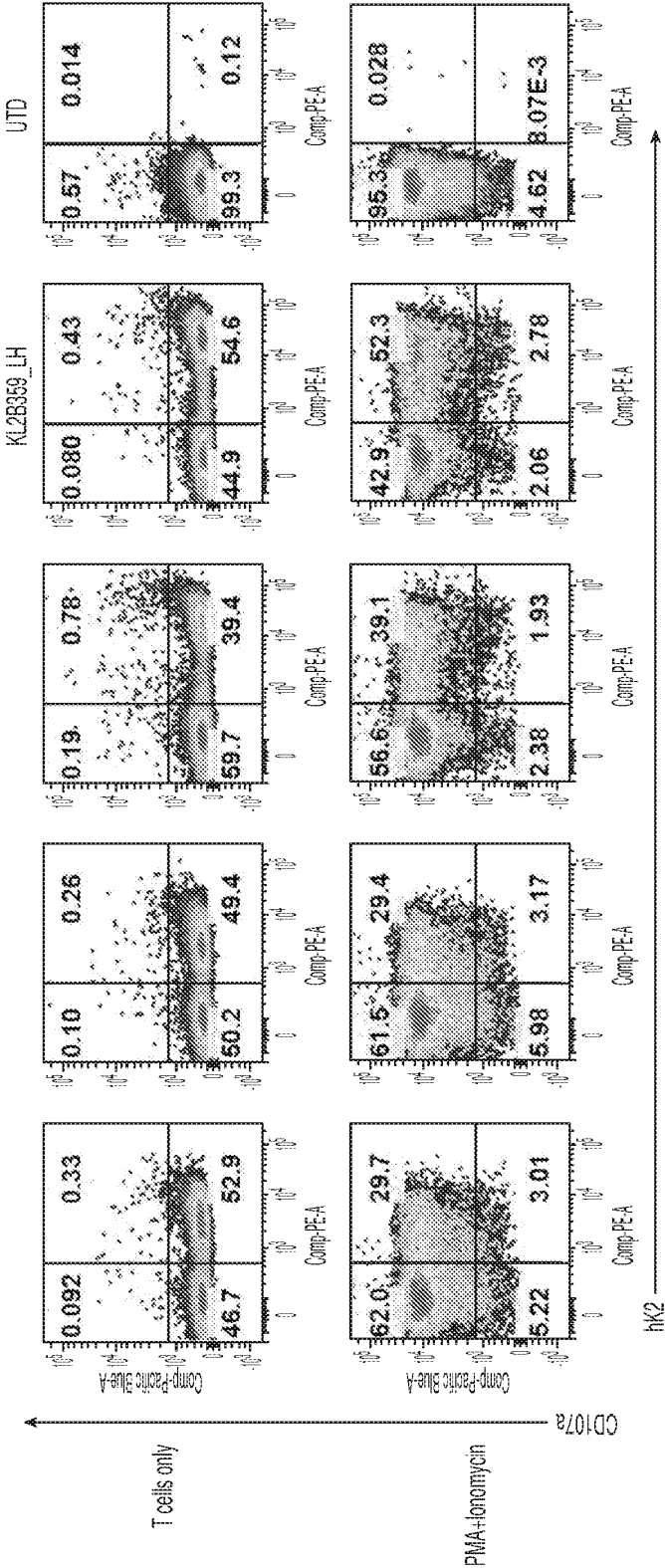
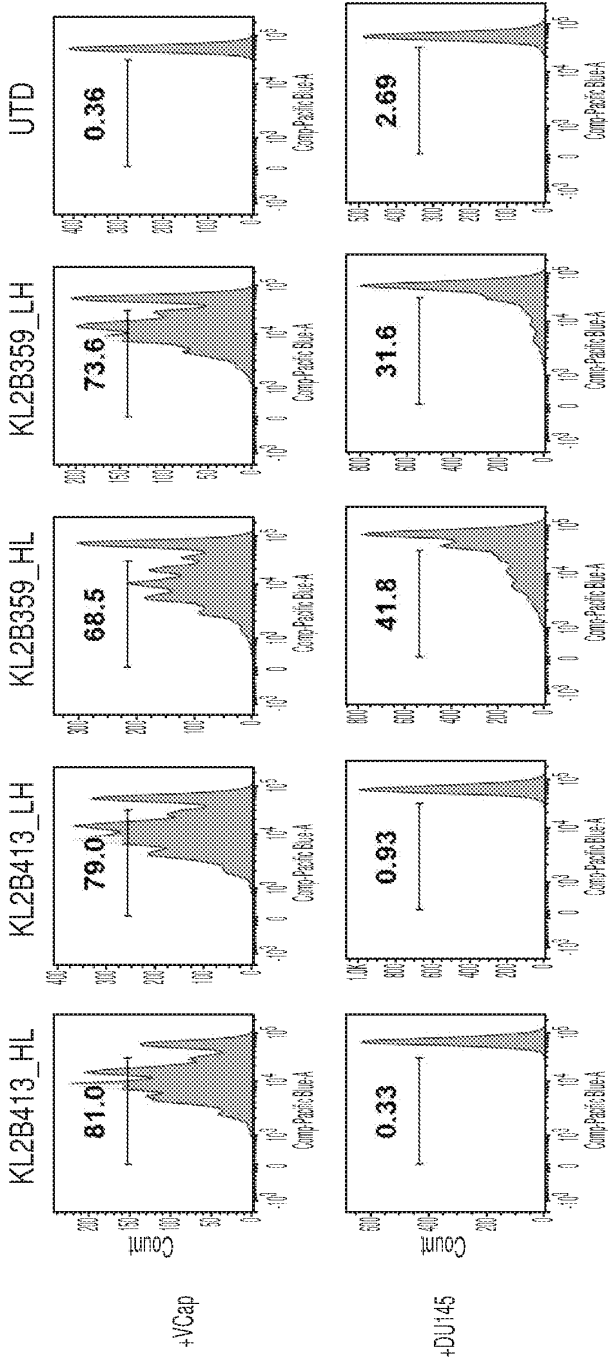
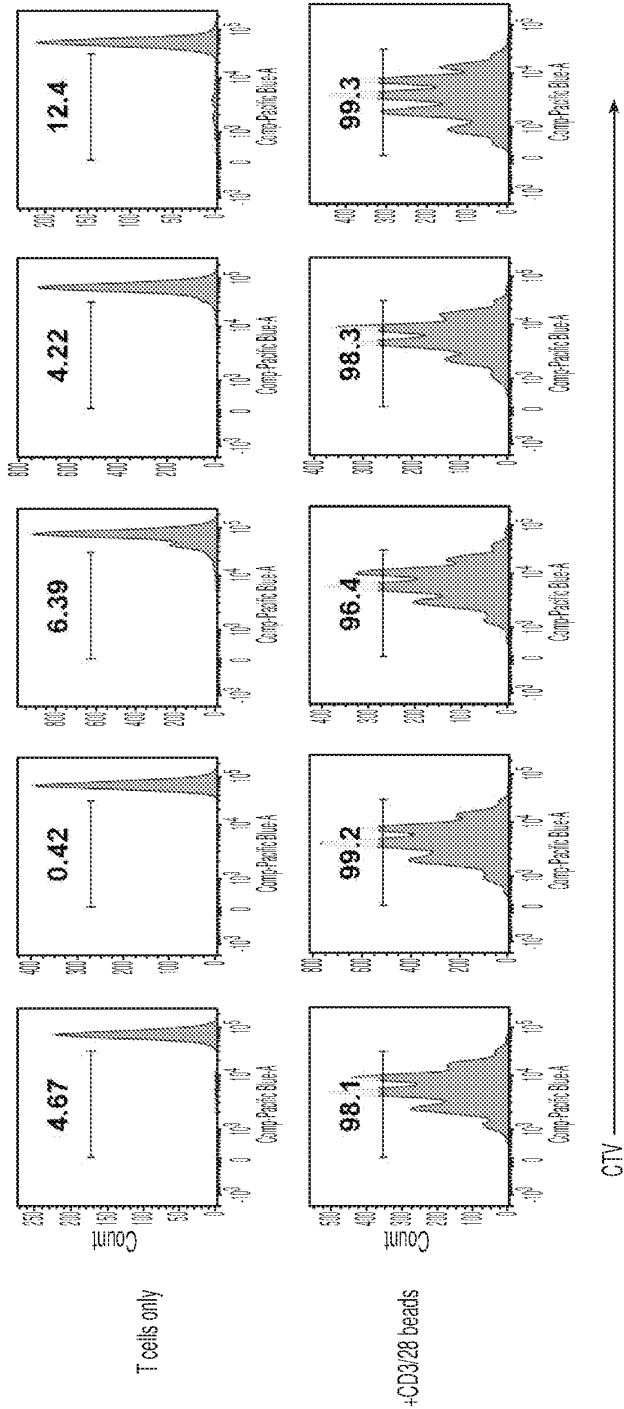


FIG. 16A



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continued from previous page



35/40

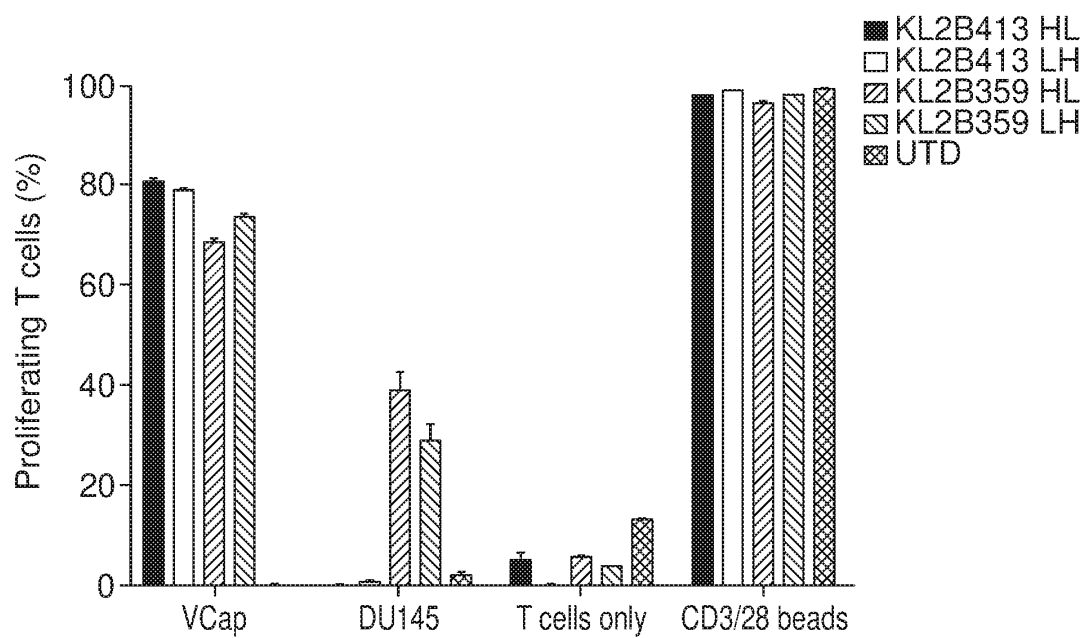
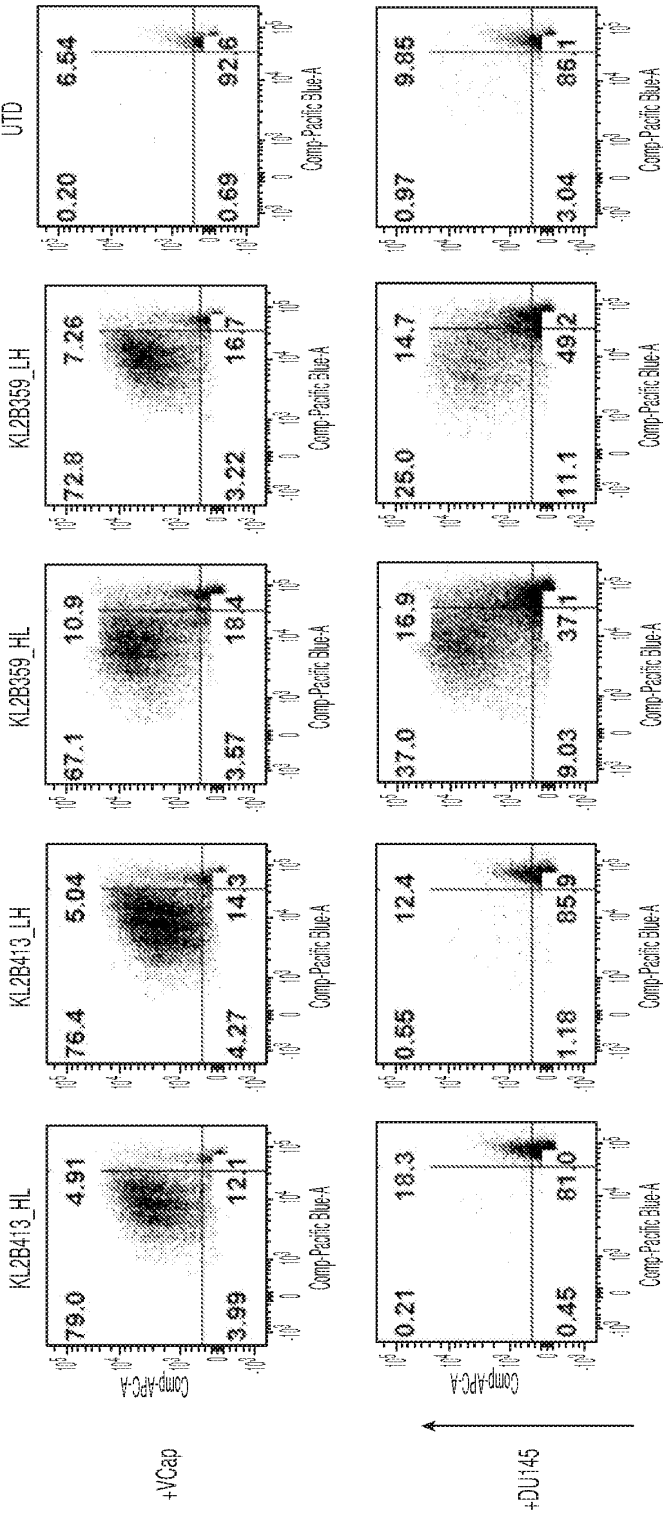
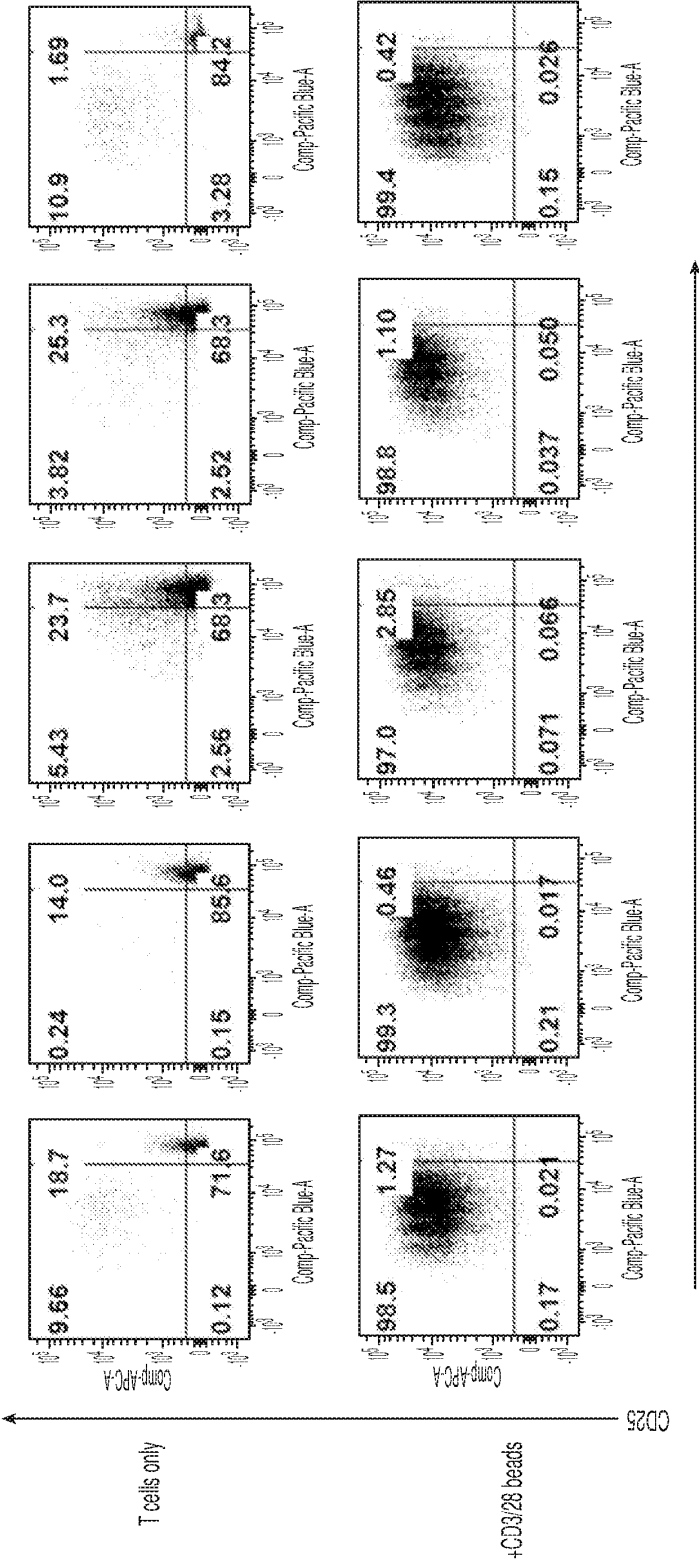
FIG. 16B

FIG. 16C

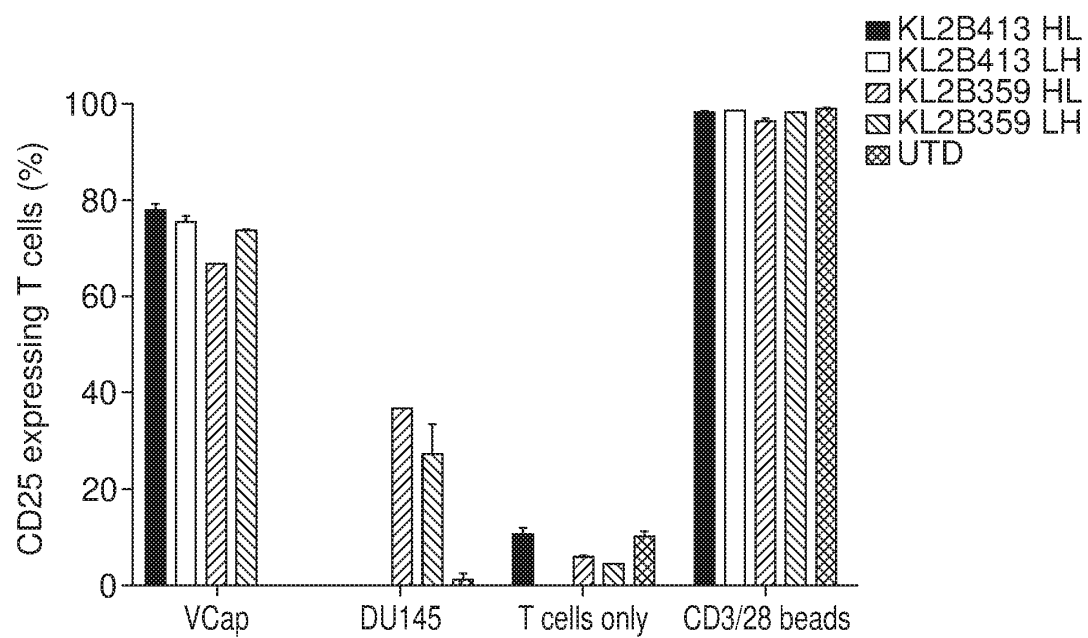


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continued from previous page



38/40

FIG. 16D

39/40

FIG. 17A

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1                                     45
mul1B6_VH DVQLQESGPGGLVKPSQSLSLTCTVTGNSITSDYAWNWIROFPGNR
hul1B6_VH QVQLQESGPGGLVKPSDTLSLTCAVSGNSITSDYAWNWIROPPGKG
KL2B357_VH QVQLQESGPGGLVKPSQTLSTCTVSGNSITSDYAWNWIROFPGKG
KL2B358_VH QVQLQESGPGGLVKPSQTLSTCTVSGNSITSDYAWNWIROPPGKG
KL2B359_VH QVQLQESGPGGLVKPSQTLSTCTVSGNSITSDYAWNWIROFPGKR
KL2B360_VH QVQLQESGPGGLVKPSQTLSTCTVSGNSITSDYAWNWIROFPGKG
HCF3 QVQLQESGPGGLVKPSDTLSLTCAVSGNSITSDYAWNWIROFPGKG
HCG5 QVQLQESGPGGLVKPSDTLSLTCAVSGNSITSDYAWNWIROFPGKG
Aln :*****:*****:*****:

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46                                     90
mul1B6_VH LEWMGYISYSGSTTYNPSLKSRFSITRDTSKNQFFLQLNSVTPED
hul1B6_VH LEWIGYISYSGSTTYNPSLKSRVTMSRDTSKNQFSLKLSSVTAVD
KL2B357_VH LEWIGYISYSGSTTYNPSLKSRVTISRDTSKNQFSLKLSSVTAAD
KL2B358_VH LEWIGYISYSGSTTYNPSLKSRVTISRDTSKNQFSLKLSSVTAAD
KL2B359_VH LEWIGYISYSGSTTYNPSLKSRVTISRDTSKNQFSLKLSSVTAAD
KL2B360_VH LEWIGYISYSGSTTYNPSLKSRVTISRDTSKNQFSLKLSSVTAAD
HCF3 LEWIGYISYSGSTTYNPSLKSRVTISRDTSKNQFSLKLSSVTPVD
HCG5 LEWMGYISYSGSTTYNPSLKSRVTISRDTSKNQFSLKLSSVTPVD
Aln ***:*****:*****:*****:

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91                                     117
mul1B6_VH TATYFCATGYYYGSGFGWGQGLVTVSS
hul1B6_VH TAVYYCATGYYYGSGFGWGQGLVTVSS
KL2B357_VH TAVYYCATGYYYGSGFGWGQGLVTVSS
KL2B358_VH TAVYYCATGYYYGSGFGWGQGLVTVSS
KL2B359_VH TAVYYCATGYYYGSGFGWGQGLVTVSS
KL2B360_VH TAVYYCATGYYYGSGFGWGQGLVTVSS
HCF3 TAVYYCATGYYYGSGFGWGQGLVTVSS
HCG5 TAVYYCATGYYYGSGFGWGQGLVTVSS
Aln **.:*****:

```

VH consensus sequence SEQ ID NO: 345

QVQLQESGPGGLVKPSX₁TLSTLCTX₂VSGNSITSDYAWNWIROX₃PGKGLEWX₄GYISYSGSTTY
NPSLKSRVTMSRDTSKNQFSLKLSSVTX₅X₆DTAVYYCATGYYYGSGFGWGQGLVTVSS

X1 is D or Q;
X2 is A or T;
X3 is P or F;
X4 is I or M;
X5 is A or P; or
X6 is V or A.

40/40

FIG. 17B

	1	50
h11B6	VPLIEGRIVGGWECEKHSQPWQVAVYSHGWAHCGGVLVHPQWVLTAAHCL	
KL2B494	VPLIEGRIVGGWECEKHSQPWQVAVYSHGWAHCGGVLVHPQWVLTAAHCL	
KL2B467	VPLIEGRIVGGWECEKHSQPWQVAVYSHGWAHCGGVLVHPQWVLTAAHCL	
KL2B30	VPLIEGRIVGGWECEKHSQPWQVAVYSHGWAHCGGVLVHPQWVLTAAHCL	
KL2B413	VPLIEGRIVGGWECEKHSQPWQVAVYSHGWAHCGGVLVHPQWVLTAAHCL	
KL2B53	VPLIEGRIVGGWECEKHSQPWQVAVYSHGWAHCGGVLVHPQWVLTAAHCL	
	51	100
h11B6	KKNSQVWLGRHNLFEPEDTGQRPVSVSHSFPHPLYNMSLLKHQSLRPDEDS	
KL2B494	KKNSQVWLGRHNLFEPEDTGQRPVSVSHSFPHPLYNMSLLKHQSLRPDEDS	
KL2B467	KKNSQVWLGRHNLFEPEDTGQRPVSVSHSFPHPLYNMSLLKHQSLRPDEDS	
KL2B30	KKNSQVWLGRHNLFEPEDTGQRPVSVSHSFPHPLYNMSLLKHQSLRPDEDS	
KL2B413	KKNSQVWLGRHNLFEPEDTGQRPVSVSHSFPHPLYNMSLLKHQSLRPDEDS	
KL2B53	KKNSQVWLGRHNLFEPEDTGQRPVSVSHSFPHPLYNMSLLKHQSLRPDEDS	
	101	150
h11B6	SHDLMLLRLSEPAKITDVVKVLGLPTQEPALGTTTCYASGWGSIEPEEFRLR	
KL2B494	SHDLMLLRLSEPAKITDVVKVLGLPTQEPALGTTTCYASGWGSIEPEEFRLR	
KL2B467	SHDLMLLRLSEPAKITDVVKVLGLPTQEPALGTTTCYASGWGSIEPEEFRLR	
KL2B30	SHDLMLLRLSEPAKITDVVKVLGLPTQEPALGTTTCYASGWGSIEPEEFRLR	
KL2B413	SHDLMLLRLSEPAKITDVVKVLGLPTQEPALGTTTCYASGWGSIEPEEFRLR	
KL2B53	SHDLMLLRLSEPAKITDVVKVLGLPTQEPALGTTTCYASGWGSIEPEEFRLR	
	151	200
h11B6	PRSLQCVSLHLLSNDMCARAYSEKVTEFMLCAGLWTGGKDTCGGDSGGPL	
KL2B494	PRSLQCVSLHLLSNDMCARAYSEKVTEFMLCAGLWTGGKDTCGGDSGGPL	
KL2B467	PRSLQCVSLHLLSNDMCARAYSEKVTEFMLCAGLWTGGKDTCGGDSGGPL	
KL2B30	PRSLQCVSLHLLSNDMCARAYSEKVTEFMLCAGLWTGGKDTCGGDSGGPL	
KL2B413	PRSLQCVSLHLLSNDMCARAYSEKVTEFMLCAGLWTGGKDTCGGDSGGPL	
KL2B53	PRSLQCVSLHLLSNDMCARAYSEKVTEFMLCAGLWTGGKDTCGGDSGGPL	
	201	244
h11B6	VCNGVLQGITSWGPEPCALPEKPAVYTKVVHYRKWIKDTIAANP	
KL2B494	VCNGVLQGITSWGPEPCALPEKPAVYTKVVHYRKWIKDTIAANP	
KL2B467	VCNGVLQGITSWGPEPCALPEKPAVYTKVVHYRKWIKDTIAANP	
KL2B30	VCNGVLQGITSWGPEPCALPEKPAVYTKVVHYRKWIKDTIAANP	
KL2B413	VCNGVLQGITSWGPEPCALPEKPAVYTKVVHYRKWIKDTIAANP	
KL2B53	VCNGVLQGITSWGPEPCALPEKPAVYTKVVHYRKWIKDTIAANP	