

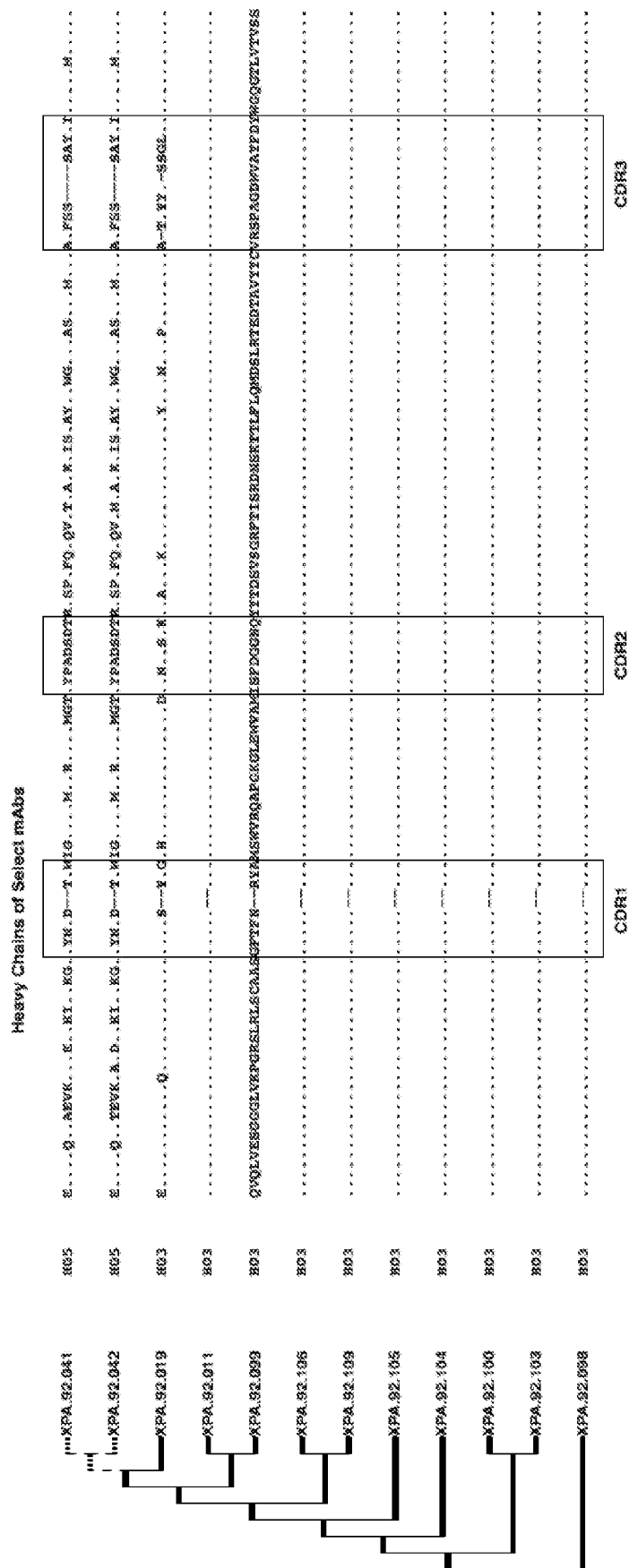
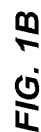


FIG. 1A



XPA.92.019
Binding To Cells With IL2

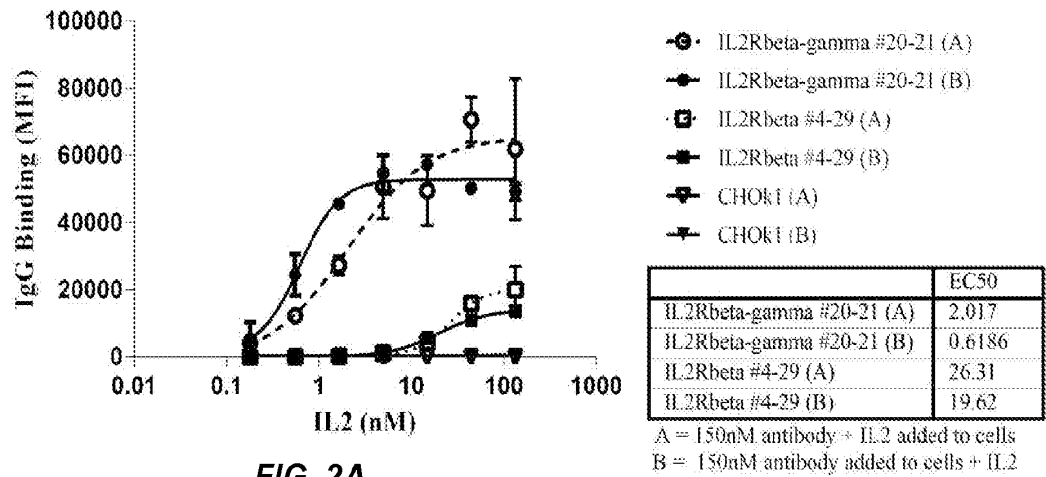


FIG. 2A

XPA.92.041
Binding To Cells With IL2

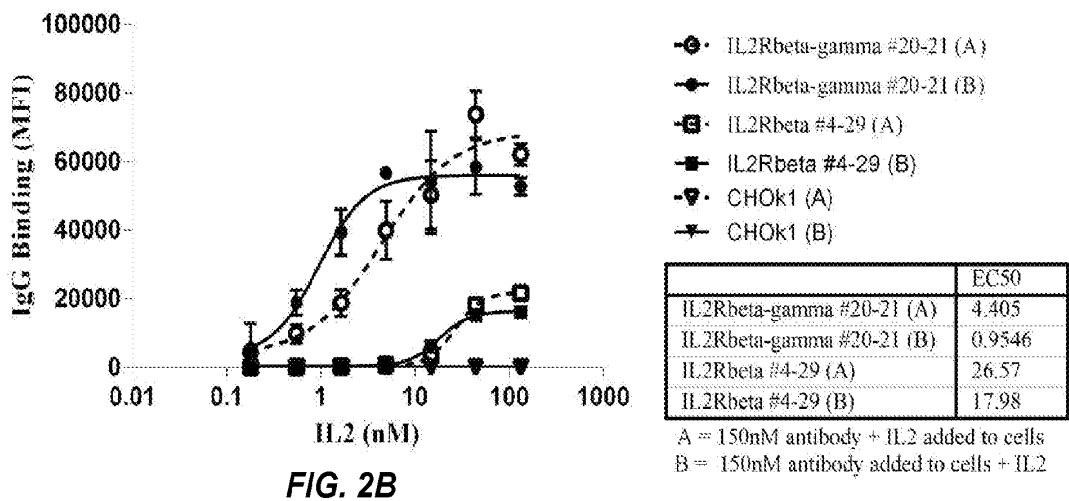


FIG. 2B

XPA.92.042
Binding To Cells With IL2

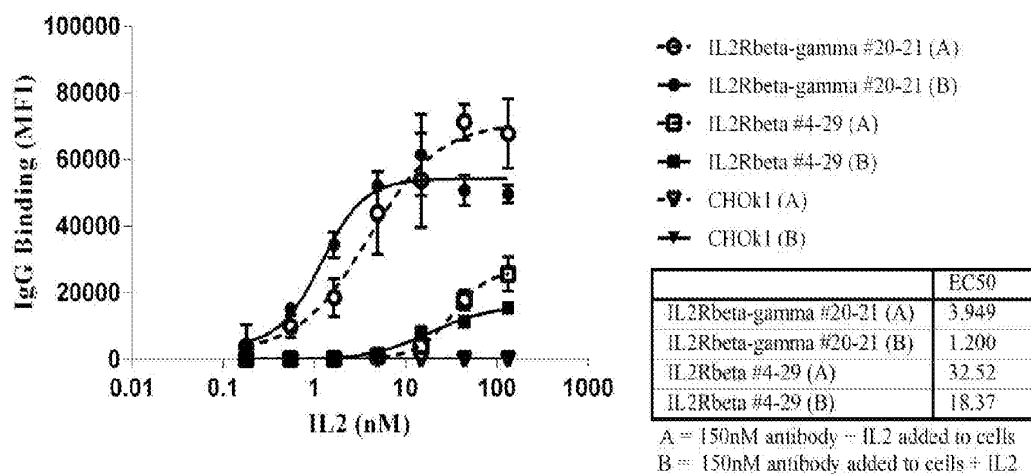


FIG. 2C

XPA.92.099
Binding To Cells With IL2

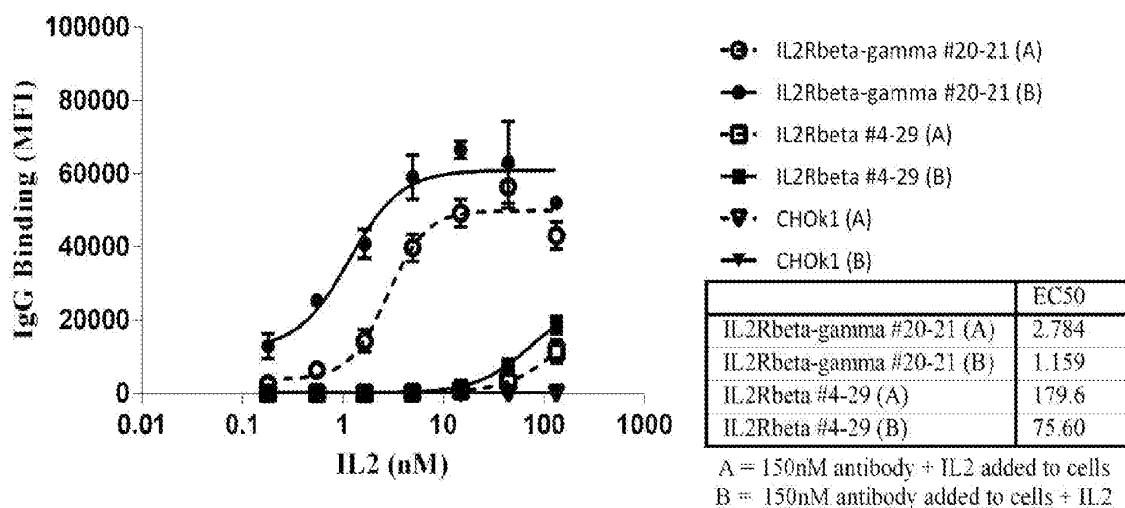
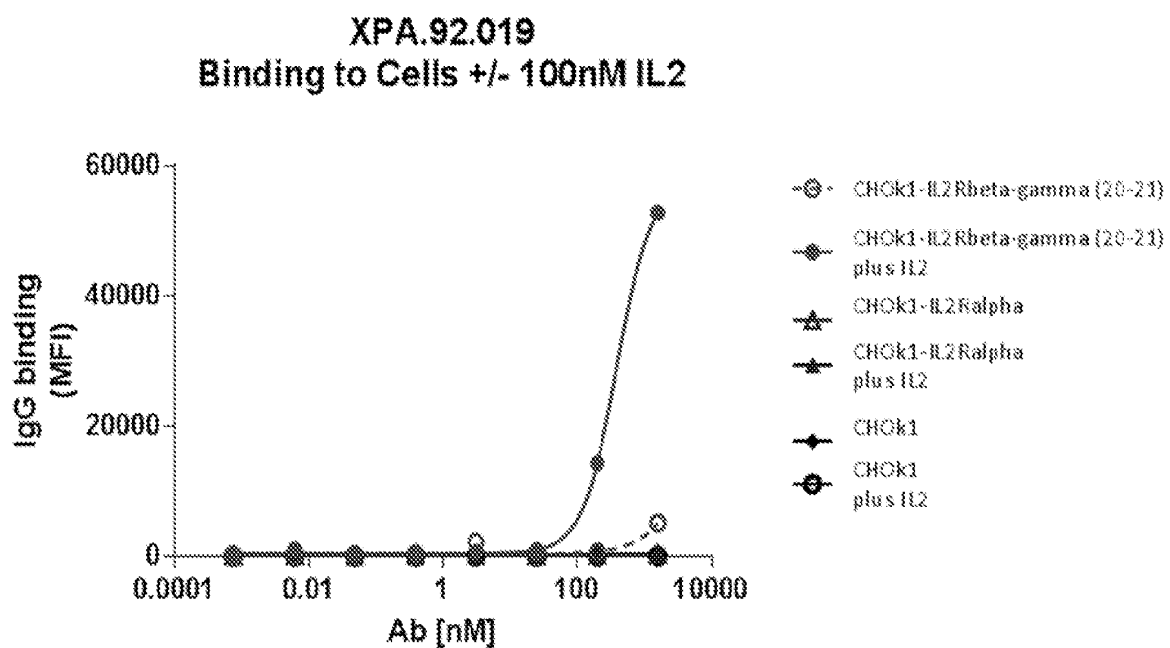
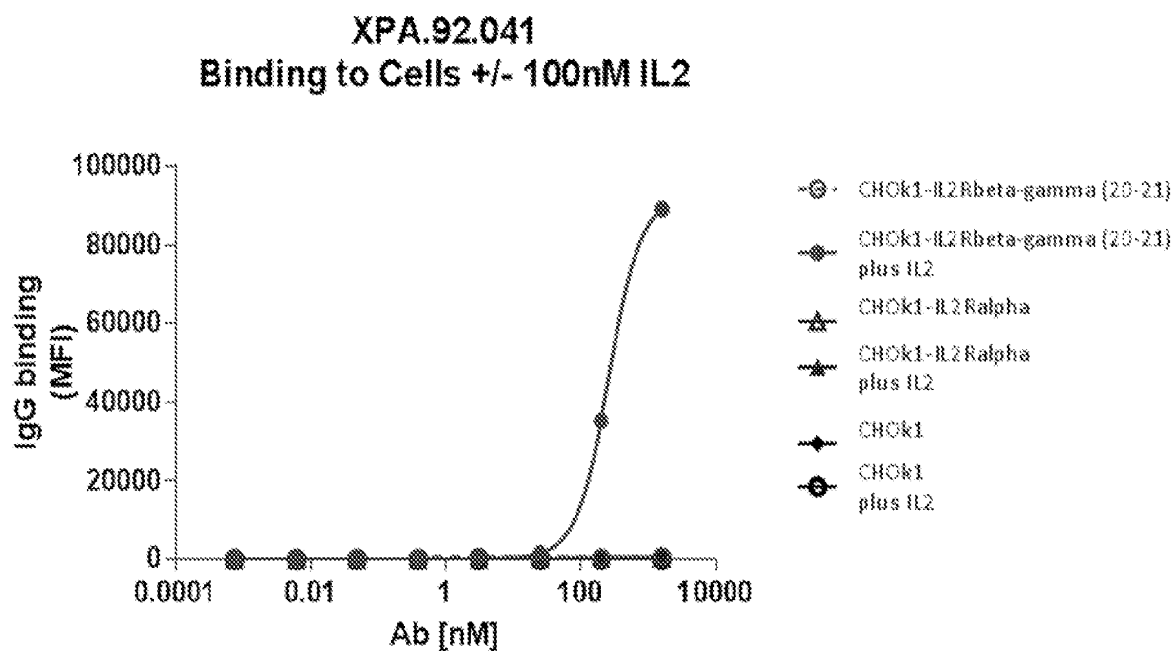
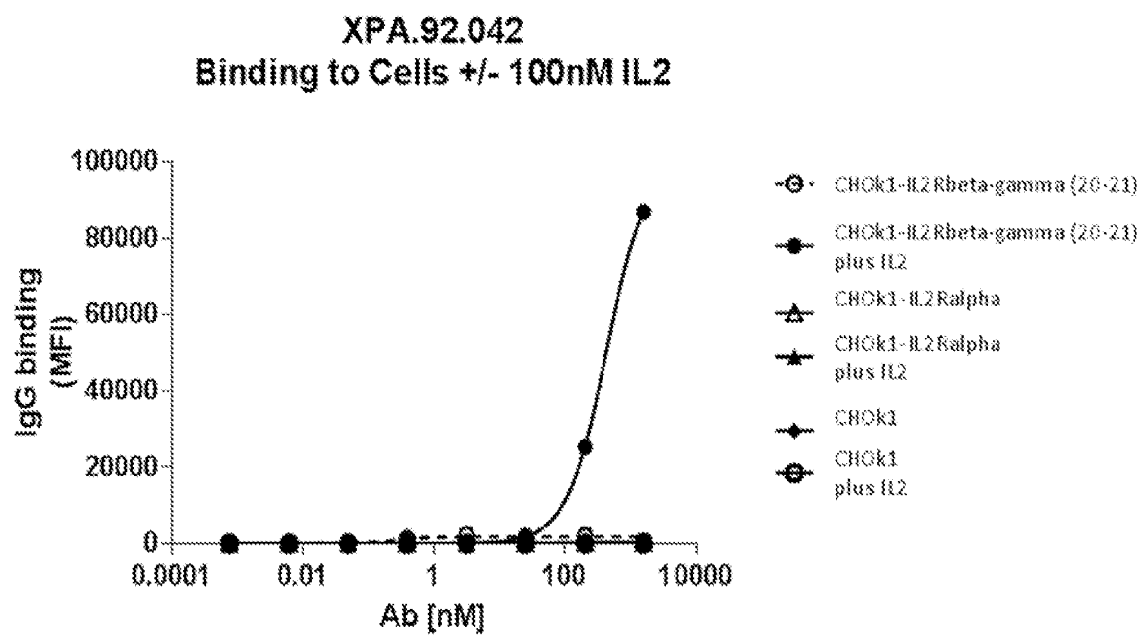


FIG. 2D

**FIG. 3A****FIG. 3B**

**FIG. 3C**

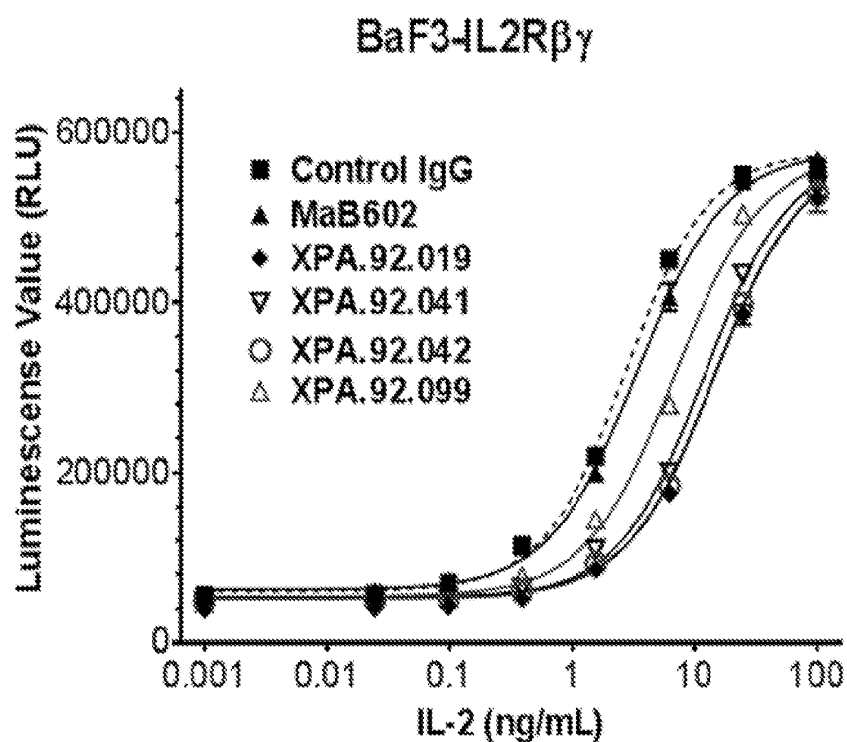


FIG. 4A

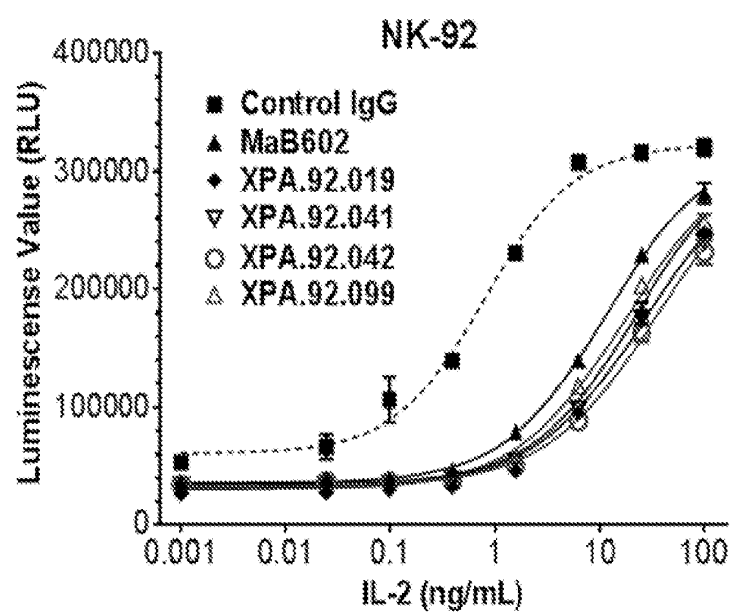


FIG. 4B

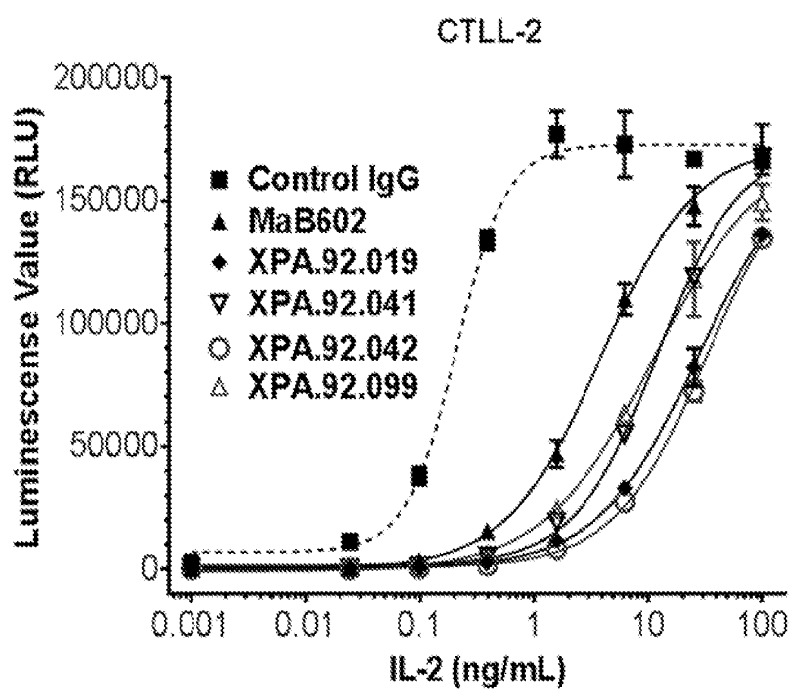
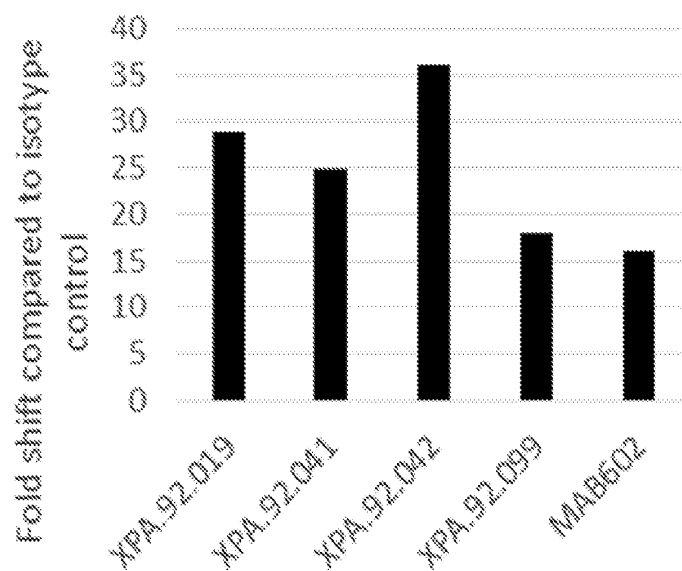
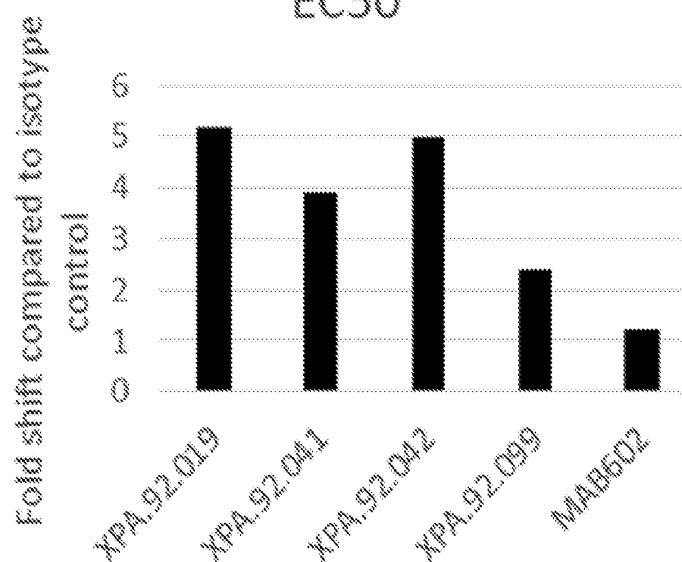
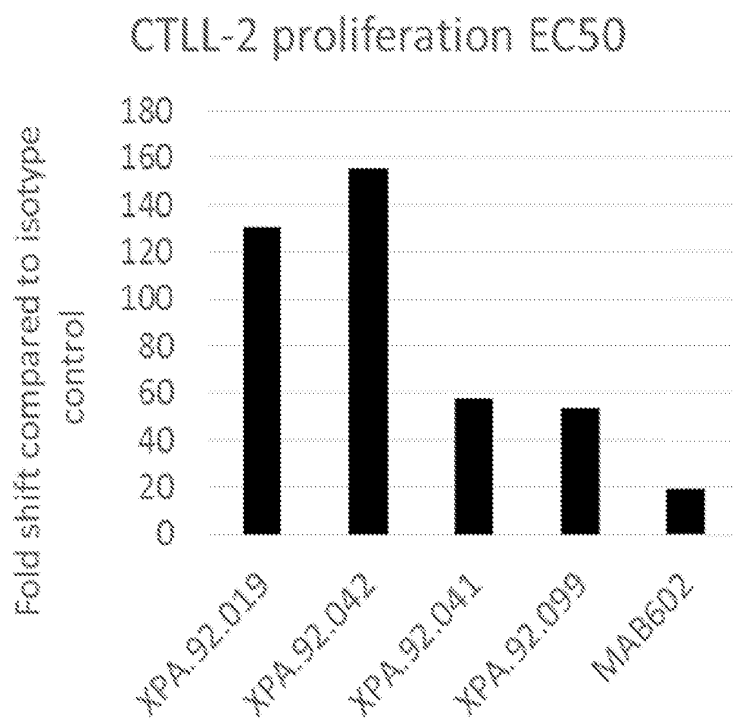


FIG. 4C

NK92 proliferation- EC50

**FIG. 5A**BaF3-Rbg proliferation
EC50**FIG. 5B**

**FIG. 5C**

Interleukin-2 sequence alignments

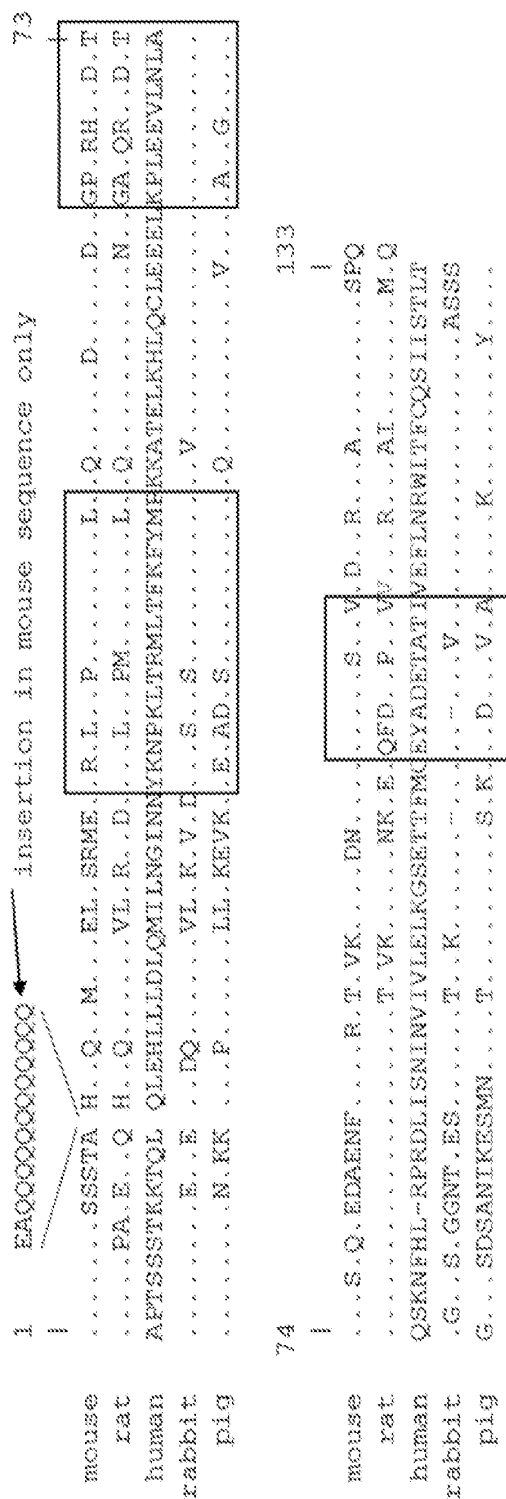


FIG. 6

NK-92 cells (endogenous human IL-2R $\alpha\beta\gamma$)

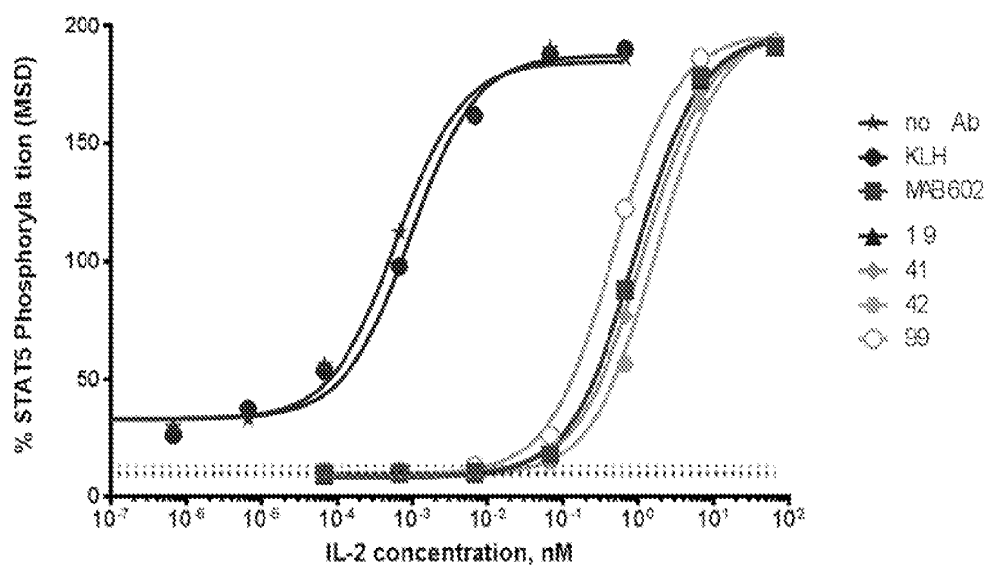


FIG. 7A

No Ab	0.0006155
KLH	0.0009353
MAB602	0.8971
19	0.9031
41	1.153
42	1.773
99	0.4634

Human NK cells (only endogenous human IL-R $\beta\gamma$)

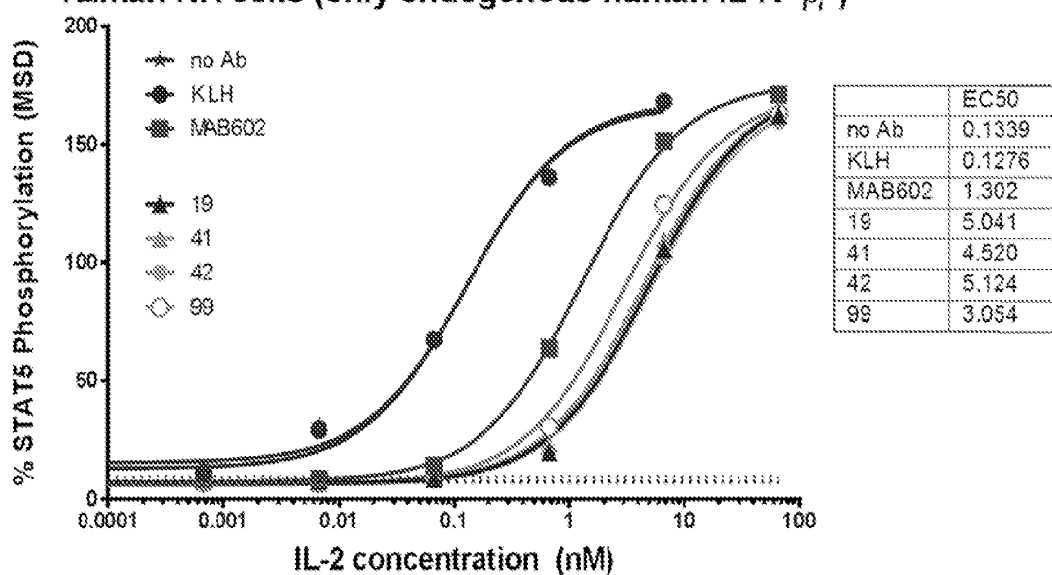


FIG. 7B

	EC50
no Ab	0.1339
KLH	0.1276
MAB602	1.302
19	5.041
41	4.520
42	5.124
99	3.054

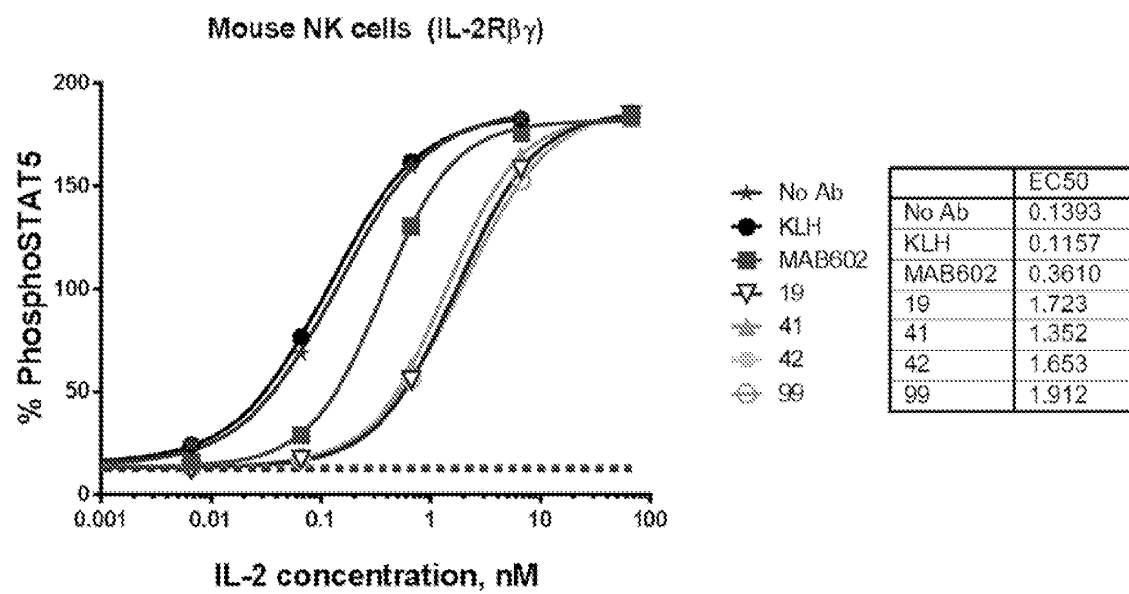
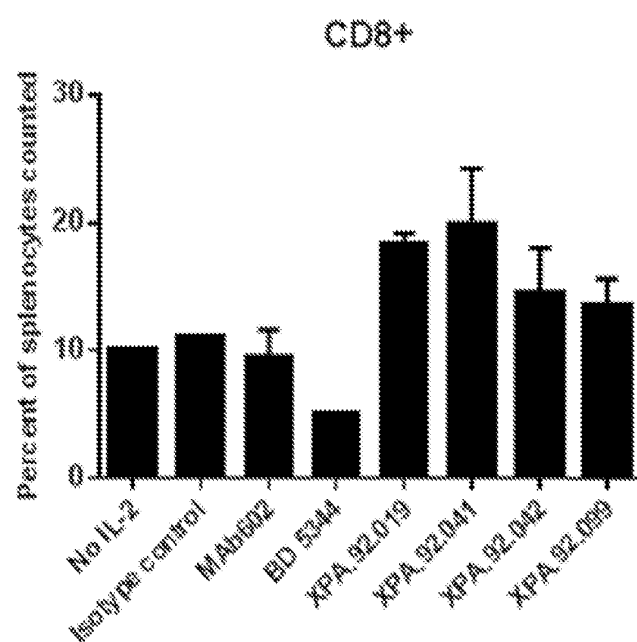
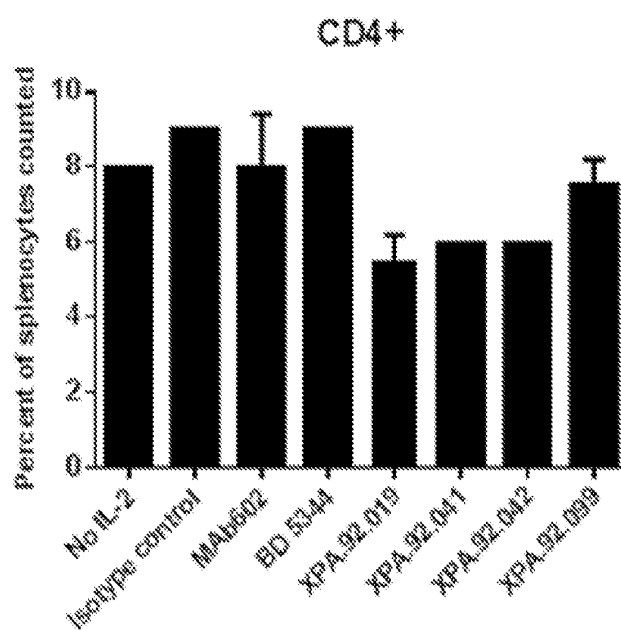


FIG. 7C

**FIG. 8A****FIG. 8B**

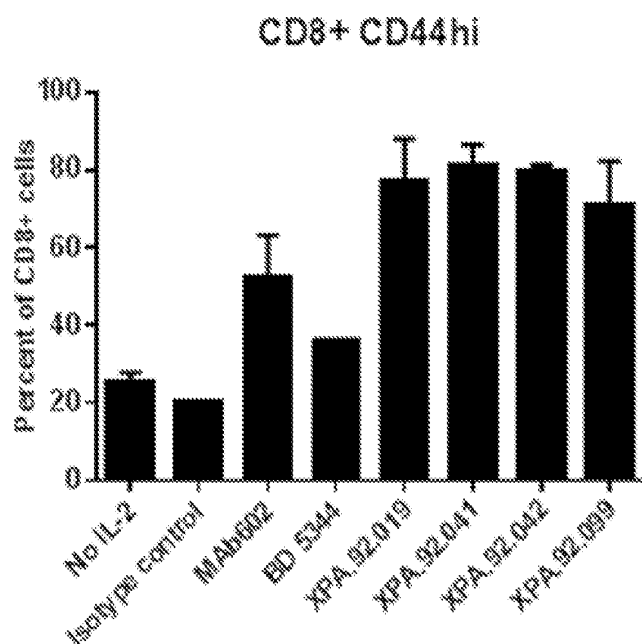


FIG. 8C

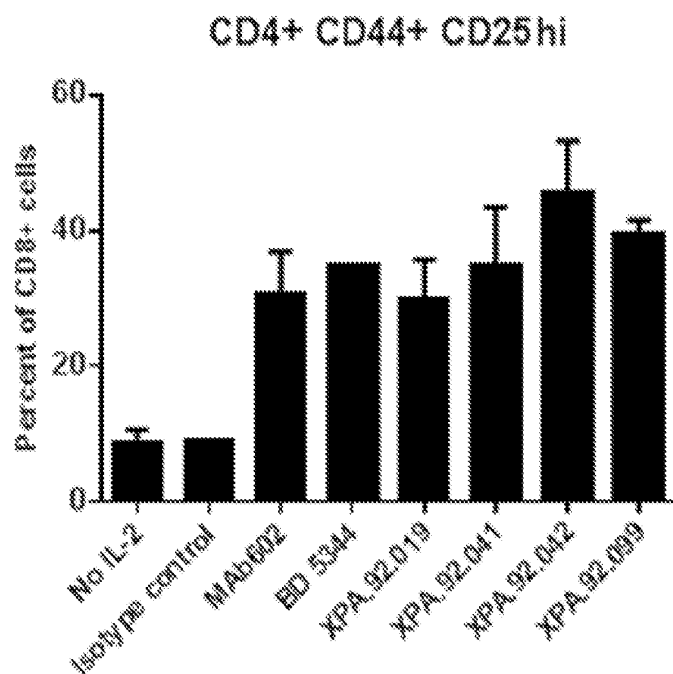
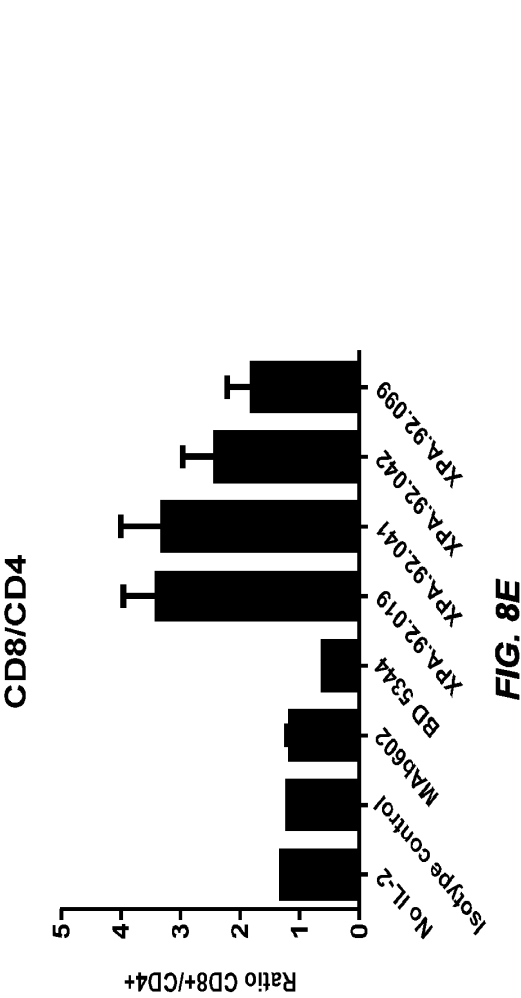
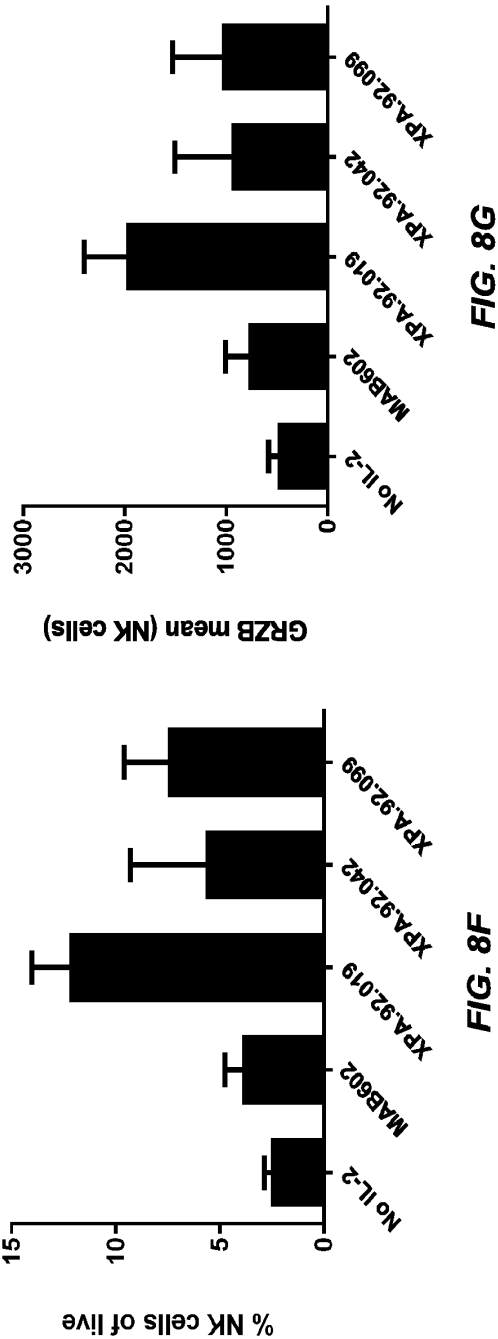


FIG. 8D



Vehicle
control

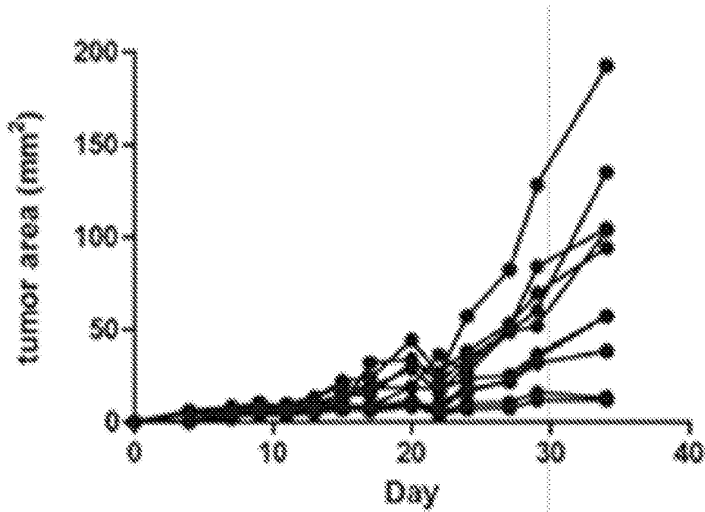


FIG. 9A

IL-2/mAb99

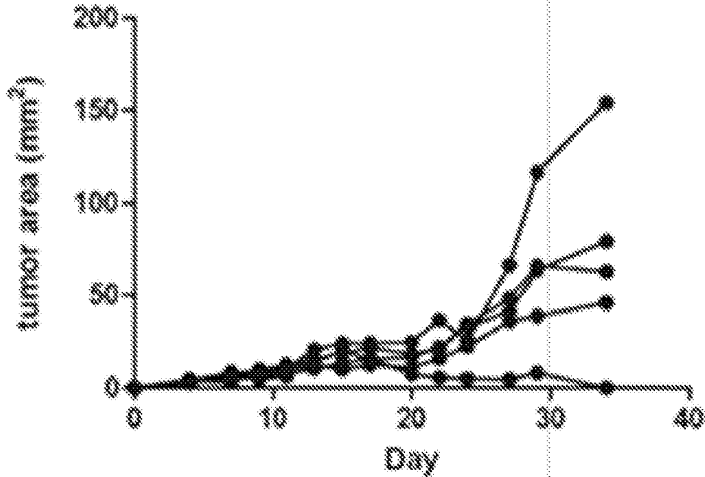


FIG. 9B

anti-PD-1 mAb

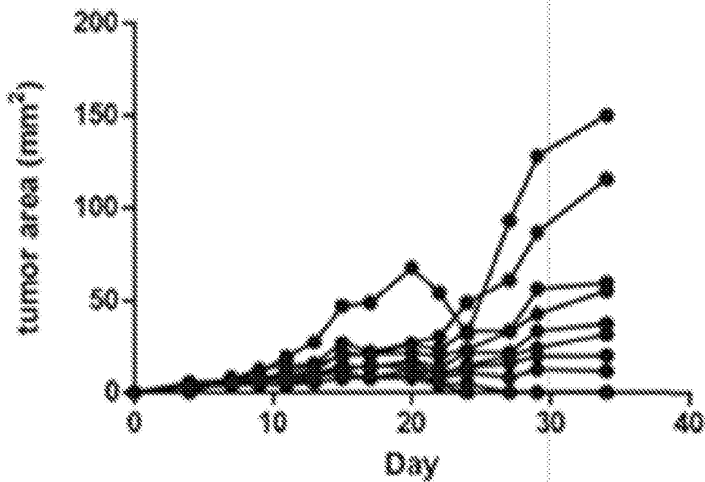


FIG. 9C

IL-2/mAb99 +
anti-PD-1 mAb

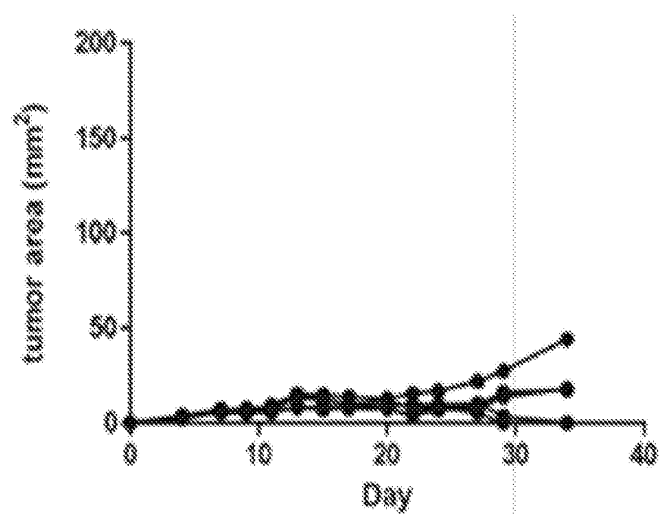


FIG. 9D

anti-CTLA-4 mAb

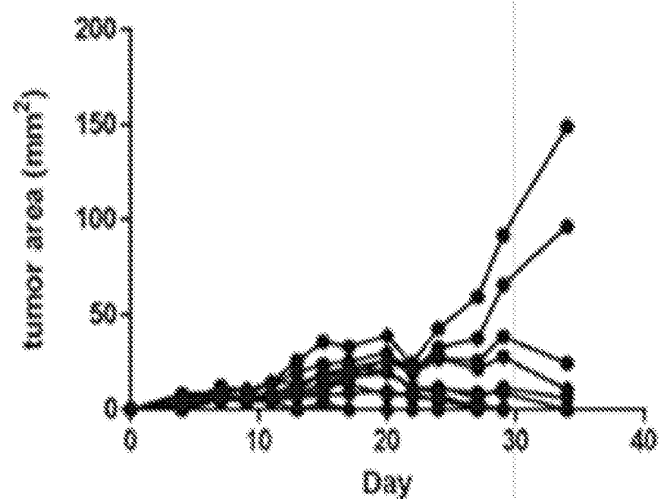


FIG. 9E

IL-2/mAb99 +
anti-CTLA-4 mAb

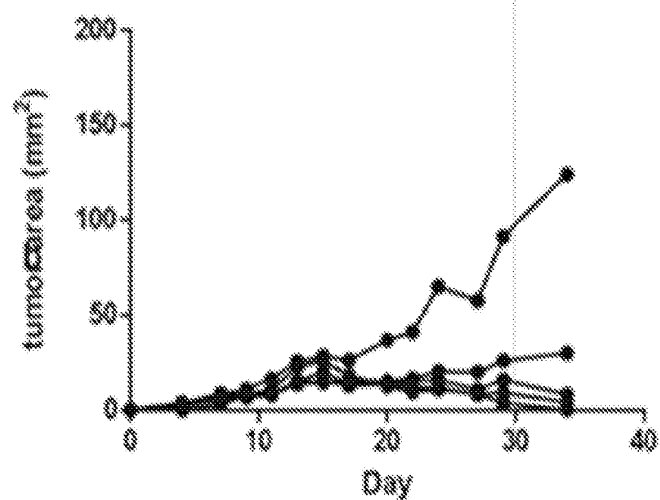


FIG. 9F

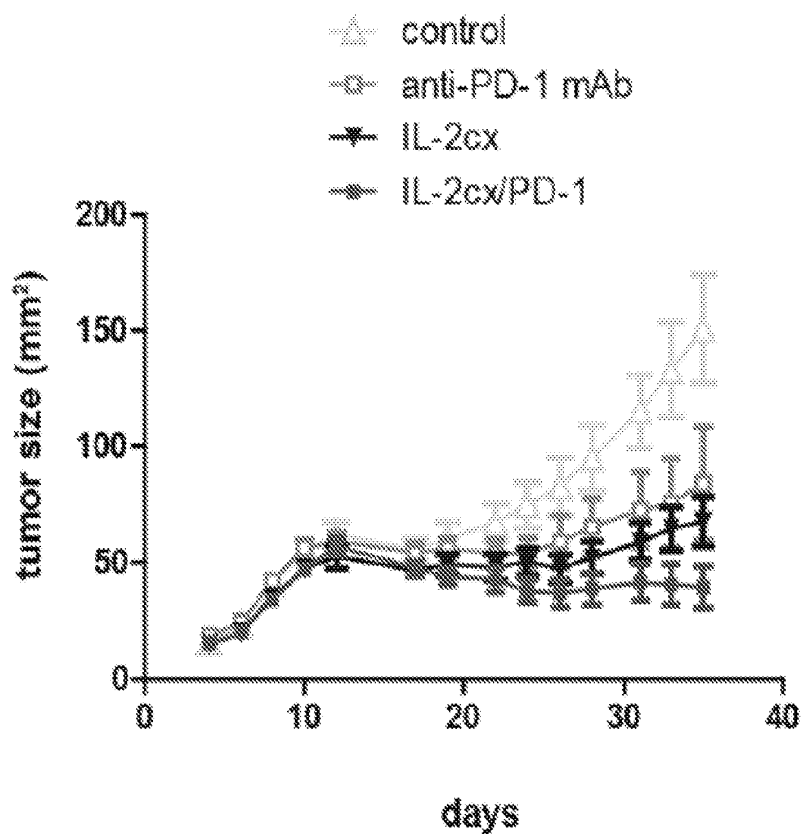


FIG. 10A

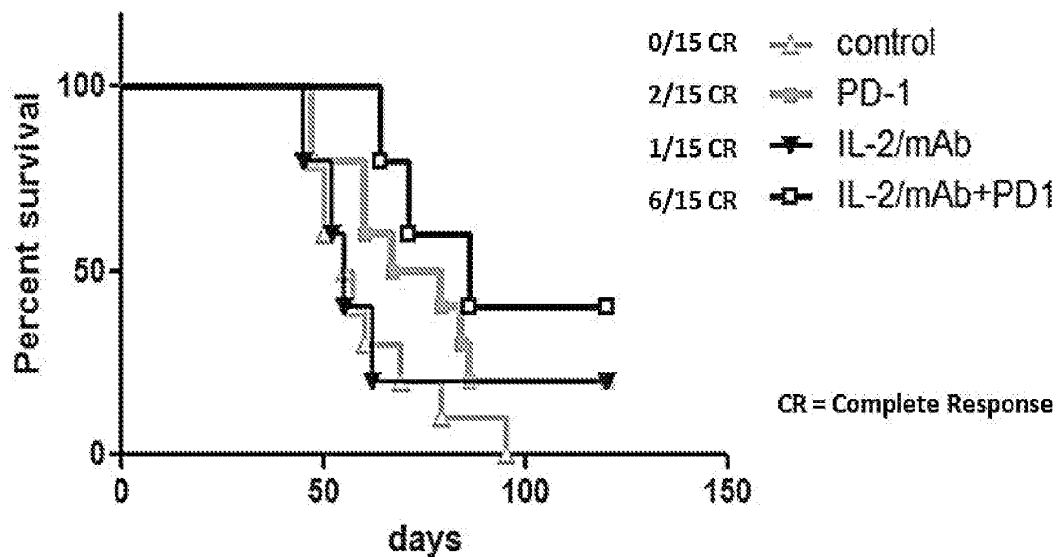


FIG. 10B

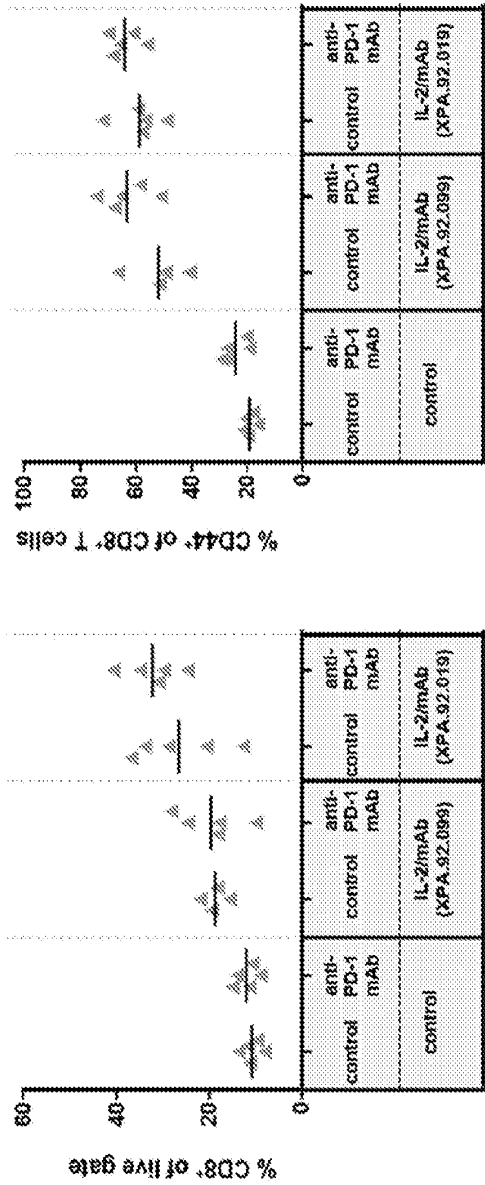


FIG. 11B

FIG. 11A

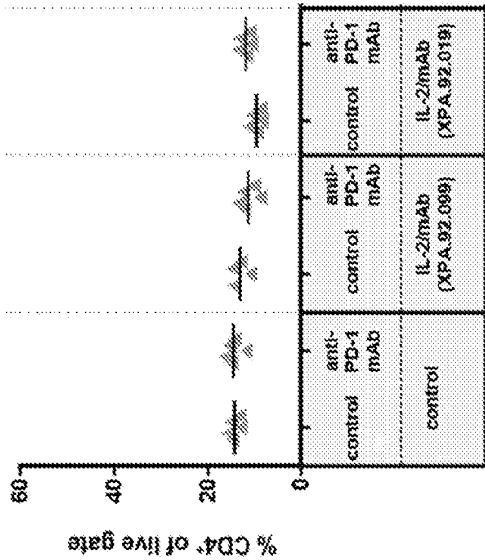
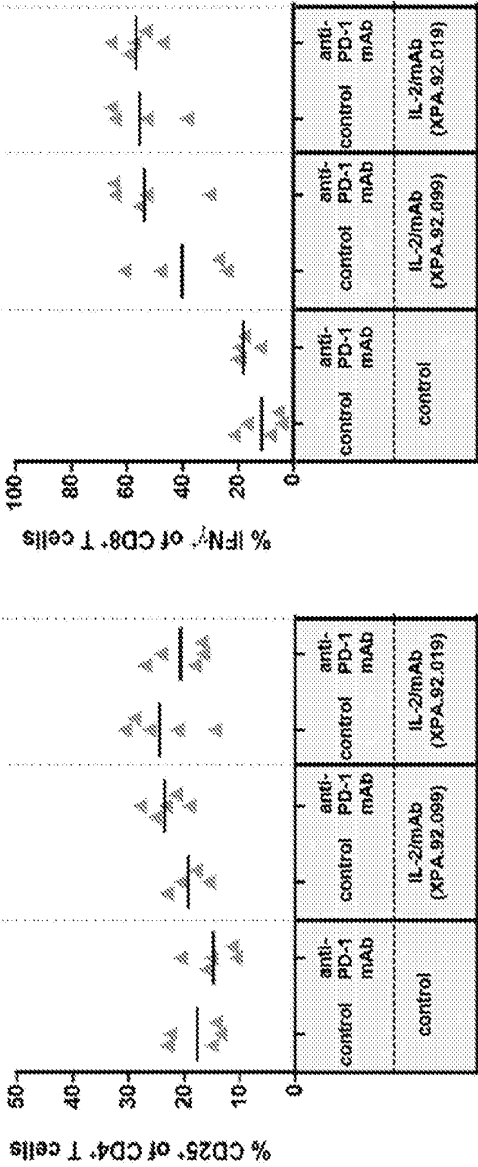
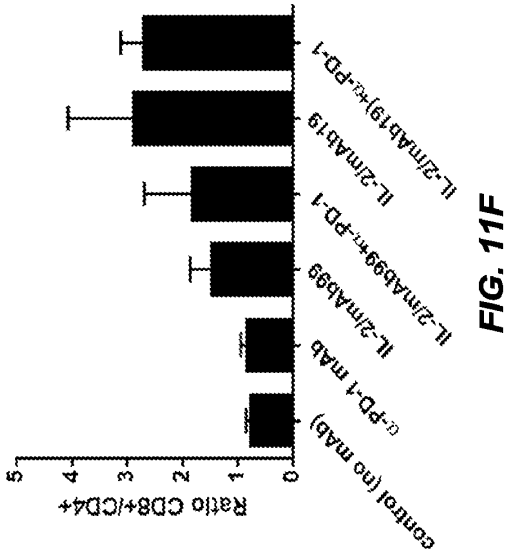


FIG. 11C



SEQ ID NO:	Name	Sequence
1	XPA.92.019 HV H-CDR1 26-33 H-CDR2 51-58 H-CDR3 97-108	EVQLVESGGG LVQPGRSLRL SCAASGFTFS YGMEHWVRQA PGKLEWVAD ISNDGSKNY ADSVKGRFTI SRDNSKTTLY LQNSLRPED TAVYICATPY YDSSGLDIWG QGTLTVSS
2	XPA.92.019 HV	gaagtgcagc tgggtggagtc tgggggaggc ttggtccagc ctgggaggtc cctgagactc tcctgtgcag cctctggatt caacttcagt tactatggca tgcactgggt ccgccagggt ccaggcaagg ggctagagtg ggtggcagat atatcaaatg atggaagtaa taaatattac gcagactctg tgaaggccg attcaccatc tccagagaca attccaagac cagcctgtat ctgcaaatga acagcctgag acctgaggac acggctgtat attactgtgc gaccccttac tatgatatga gtgggttgga ctactggggc cagggaacc ttggtaccgt ctctca
3	XPA.92.041 HV H-CDR1 26-33 H-CDR2 51-58 H-CDR3 97-106	EVQLVQSGAE VKKPGESLKI SCKSGYNFD TYWIGWVRQM PGRGLEWMGT IYPADSDTRY SPSFQGGQVTI SADKSISTAY LQWGLRASD TAMYICARFS SSAYDIWGQG TMVTVSS
4	XPA.92.041 HV	gaggtccagc tgggtacagtc tggagcagag gtgaaaaagc ccggggagtc tctgaagatt tcctgtaagg gttctggata caactttgac acgtactgga tcggctgggt gcgccagatg cccgggagag gcttgagtg gatgggcacc atctatctg ctgactctga caccagatat agcccgctct tccaaaggcca ggtcaccacc tcagccgaca agtccatcag caccgcctac ctgcagtggt gcagcctgag ggctcggac accgccatgt attactgtgc gaggtttagc agttctgct atgacattg ggcccaagg acaatgtca ccgtctctc a
5	XPA.92.042 HV H-CDR1 26-33 H-CDR2 51-58 H-CDR3 97-106	EVQLVQSGTE VKKAGDSLKI SCKSGYNFD TYWIGWVRQM PGRGLEWMGT IYPADSDTRY SPSFQGGQVTM SADKSISTAY LQWGLRASD TAMYICARFS SSAYDIWGQG TMVTVSS
6	XPA.92.042 HV	gaggtccagc tgggtacagtc tggaaacagag gtgaaaaaag ccggggagtc tctgaagatt tcctgtaagg gttctggata caactttgac acgtactgga tcggctgggt gcgccagatg cccgggagag gcttgagtg gatgggcacc atctatctg ctgactctga caccagatat agtccgtct tccaaaggcca ggtcaccatg tcagccgaca agtccatcag caccgcctac ctgcagtggt gcagcctgag ggctcggac accgccatgt attactgtgc gaggttcagc agctctgct atgacattg ggcccaagg acaatgtca ccgtctctc a
7	XPA.92.099 HV H-CDR1 26-33 H-CDR2 51-58 H-CDR3 97-110	QVQLVESGGG LVKPGRLRL SCAASGFTFN RYAMSWVRQA PGKLEWVAM ISFDGNGQYY TDSVSGRFTI SRDNSKTTLF LQMDSLRTED TAVYICVRSP AGDWVAYFDY WGQGLTVTS S

FIG. 12

SEQ ID NO:	Name	Sequence
8	XPA.92.099 HV	caggtgcagc tgggtggagtc tgggggaggc ttggtcaagc ctgggaggtc cctgagactc tcctgtgcag cctctggatt cactttcaat agatatgcca tgagctgggt ccgccaggct ccaggcaagg ggctagagtg ggtggcgatg atatcatttg atggaggtaa tcaatattac acagactccg tgagtggcgg attcaccatc tccagagaca attccaaagc cacgtgtgtt ctgcaaatgg acagcctgag aactgaggac acggctgtgt attattgtgt gagatccccg gcgggggact ggggtgccta ctttgactac tggggccagg gaacctggt caccgtctcc tca
9	XPA.92.019 LV (lambda) H-CDR1 26-31 H-CDR2 49-51 H-CDR3 88-98	SYELTQPPSV SVSPGQTARI TCSGDALPRK FAYWYQKAG QAPVLVIYED NKRP SGIPER LSGSSSGTTA TLTISGAQEE DEADYYCYST DNTGGLWVFG GGTQLTVLG
10	XPA.92.019 LV (lambda)	tcctatgagc tgacacagcc accctcgggtg tcagtatccc caggacaaac ggccaggatc acctgctctg gagatgcatt gccaaaaaga ttgtcttatt ggtaccagca gaaggcaggc caggccctcg tactggctcat ctatgaggac acaaaacgac cctccgggat ccctgagaca ctgtctggct ccagttcagg gacaaacggcc acccttgacca tcagtggggc ccaggaggag gatgaagctg actactattg ttactccaca gacaaactg gtggtctctg ggtgttcggc ggagggacca agctgaccgt cctaggt
11	XPA.92.041 LV (lambda) H-CDR1 26-31 H-CDR2 49-51 H-CDR3 88-98	SYELTQPPSV SVSPGQTARI TCSGDALPRQ FAYWYQKPG QAPVLVIYKD TERPSGIPER FSGSSSGTTV TLTISGVQAE DEADYYCQSA DSSGTYHVFG GGTQLTVLG
12	XPA.92.041 LV (lambda)	tcctatgagc tgacacagcc accctcgggtg tcagtgtccc caggacagac ggccaggatc acctgctctg gagatgcgtt gccaaaggcaa ttgtcttatt ggtaccagca gaaggcaggc caggccctcg tgctgggtgat atataaagac actgacaggc cctcagggat ccctgagcga ttctctggct ccagctcagg gacacagtc acgttgacca tcagtggagt ccaggcagaa gacgaggctg actattactg tcaatcagca gacagcagtg gtacttatca cgtgtttgga ggaggcacc acctgaccgt cctaggt
13	XPA.92.042 LV (lambda) H-CDR1 26-31 H-CDR2 49-51 H-CDR3 88-97	SYELTQPPSV SVSPGQTARI TCSGDALPRK FAYWYQKSG QAPVLVIYQD TKRPSGIPER FSGSSSGTTV TLTISDVQAE DDADYYCQSA DRSDSYVFGA GTKLTVLG

FIG. 12 CONT.

SEQ ID NO:	Name	Sequence
14	XPA.92.042 LV (lambda)	tcctatgagc tgacacagcc accctcgggtg tcagtggtccc caggacaaaac ggccaggatc acctgctctg gagatgcatt gccaaagaaaa ttgtcttact ggtaccagca gaagtcaggc caggccccctg tcttggtgat atatcaagac actaagaggc cctcagggat ccttgagcga ttctctggct ccagctcagg gacaacagtc acgttgacca tcagtgacgt ccaggcagag gacgacgctg actattattg tcagtcagcc gacagaagtg attcttatgt cttcggagct gggaccaagc tcaccgtcct aggt
15	XPA.92.099 LV (kappa) L-CDR1 27-32 L-CDR2 50-52 L-CDR3 89-98	DIQMTQSPSS LSASIGDRVT IPCQASEDIS NHLSWYQQKP GKAPKPLIFD ASDLETGVPS RFSGSGSGTD FALTISLRP DDFATYYCHQ YHDYPSYTFG HGTKLEIKR
16	XPA.92.099 LV (kappa)	gacatccaga tgaccacagtc tccttctctcc ctgtctgctt ctattggaga cagagtcacc atccccctgcc aggcgagtgga ggacatttagt aatcatttaa gttagtatca gcagaaacca gggaaagccc ctaaacccct gatcttcgat gcaccgatt tggaacacagg ggtcccatca aggttcagtg gaagtgagtc tgggacagat ttgtctctca ccatacagcag cctgcggcct gatgatctttg caacttatta ctgccaccag tatcatgatt atccccctgta cactttttggc cacgggacca agctggagat caaacgt
17	XPA.92.019 HV H-CDR1	GFTFSYYG
18	XPA.92.019 HV H-CDR2	ISNDGSNK
19	XPA.92.019 HV H-CDR3	RPEDTAVYYCAT
20	XPA.92.041 HV H-CDR1	GYNFDTYW
21	XPA.92.041 HV H-CDR2	IYPADSDT
22	XPA.92.041 HV H-CDR3	ARFSSAYDI
23	XPA.92.042 HV H-CDR1	GYNFDTYW
24	XPA.92.042 HV H-CDR2	IYPADSDT

FIG. 12 CONT.

SEQ ID NO:	Name	Sequence
25	XPA.92.042 HV H-CDR3	SSAYDIARFS
26	XPA.92.099 HV H-CDR1	GFTFNRYA
27	XPA.92.099 HV H-CDR2	ISFDGNGQ
28	XPA.92.099 HV H-CDR3	VRSPAGDWVAYFDY
29	XPA.92.019 LV (lambda) L-CDR1	ALPKRF
30	XPA.92.019 LV (lambda) L-CDR2	EDN
31	XPA.92.019 LV (lambda) L-CDR3	YSTDNTGGLWV
32	XPA.92.041 LV (lambda) L-CDR1	ALPRQF
33	XPA.92.041 LV (lambda) L-CDR2	KDT
34	XPA.92.041 LV (lambda) L-CDR3	DSSGTYHQSA
35	XPA.92.042 LV (lambda) L-CDR1	ALPKRF
36	XPA.92.042 LV (lambda)	QDT

FIG. 12 CONT.

SEQ ID NO:	Name	Sequence
	L-CDR2	
37	XPA.92.042 LV (lambda) L-CDR3	QSADRSDSYV
38	XPA.92.099 LV (kappa) L-CDR1	EDISNH
39	XPA.92.099 LV (kappa) L-CDR2	DAS
40	XPA.92.099 LV (kappa) L-CDR3	HQYHDYPSYT

HV= Heavy Chain Variable Region
LV= Light Chain Variable Region

FIG. 12 CONT.

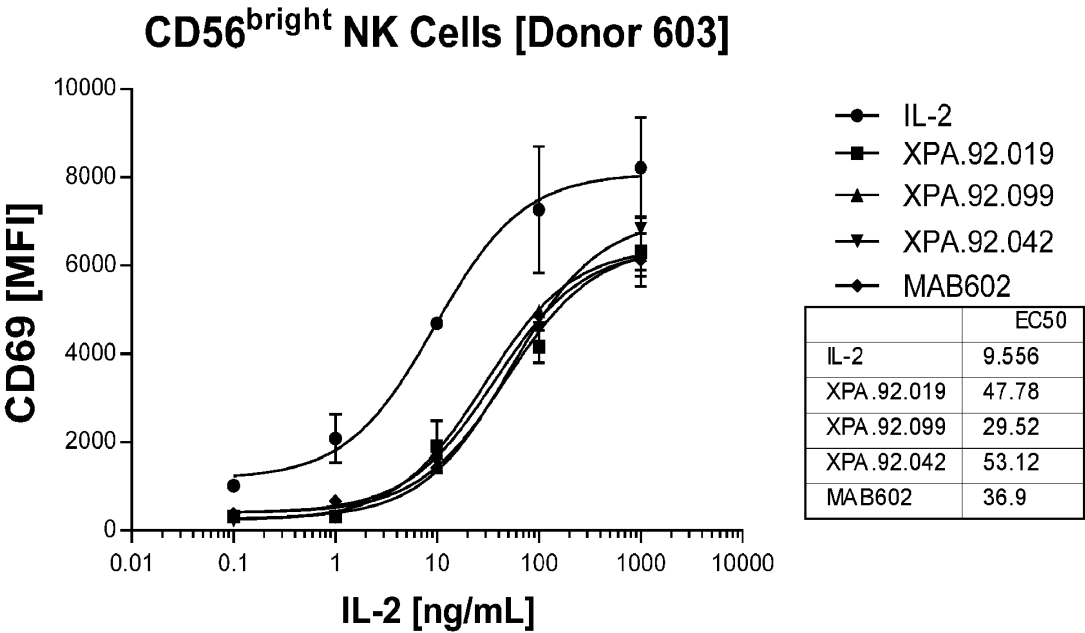


FIG. 13A

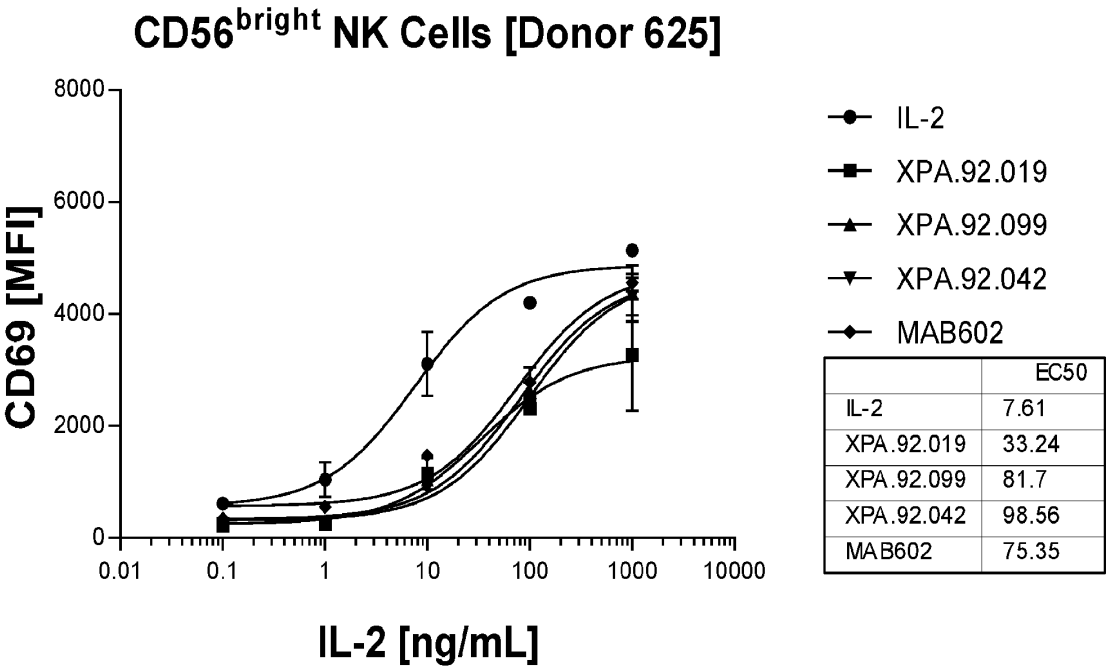
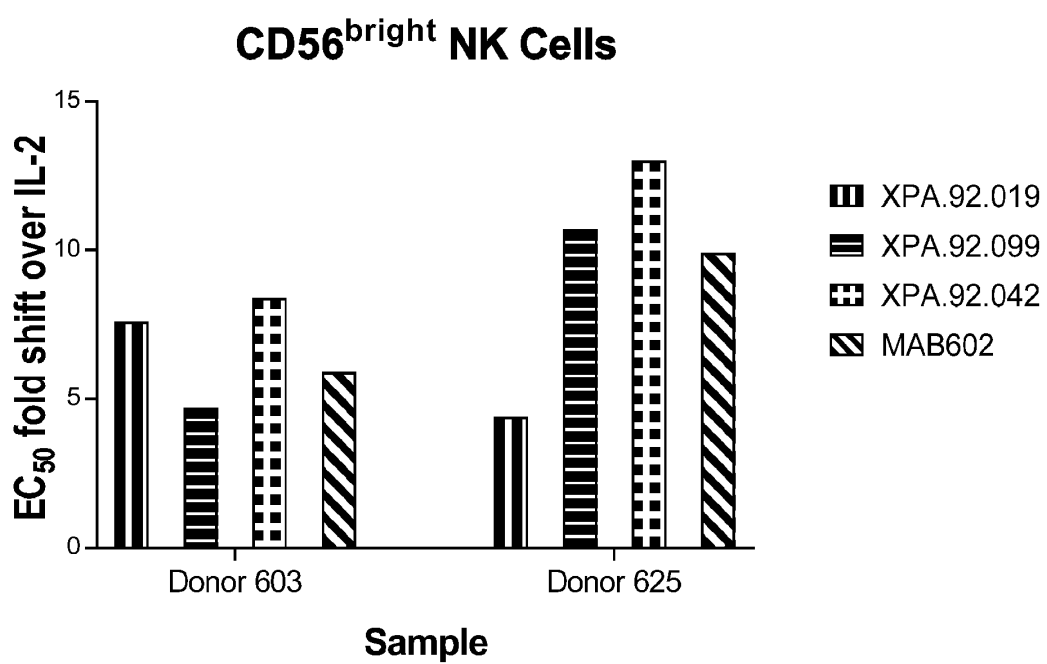


FIG. 13B

**FIG. 13C**

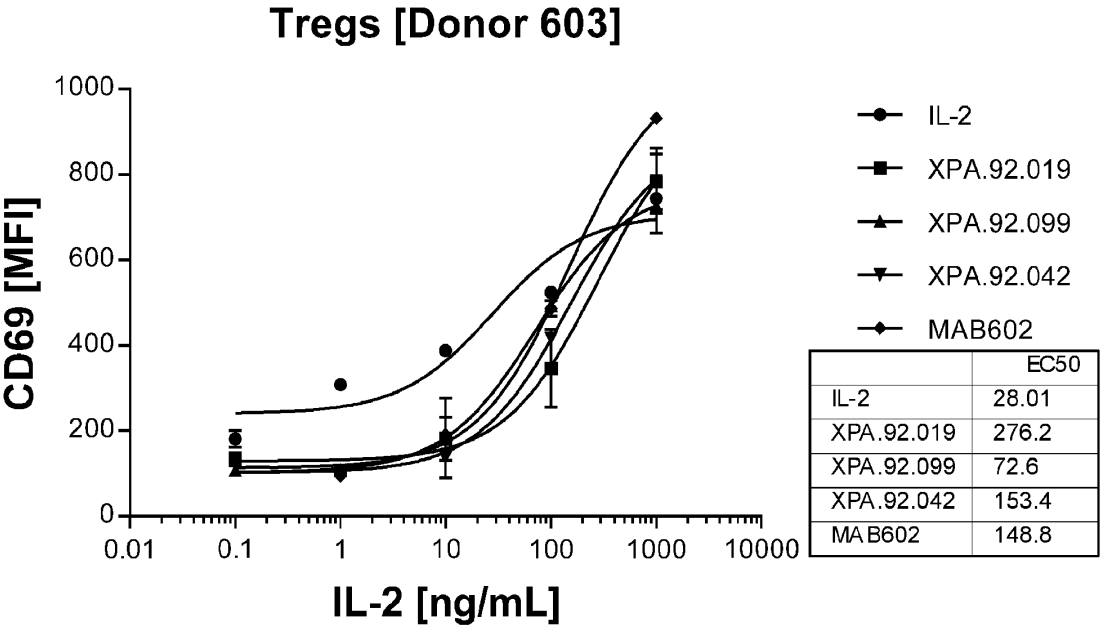


FIG. 14A

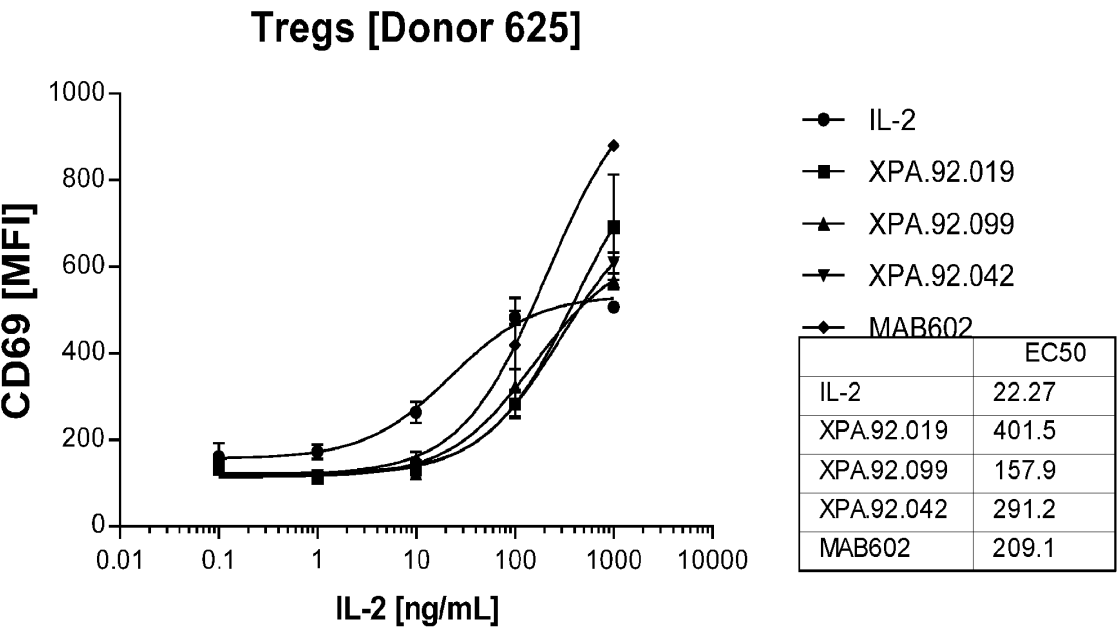
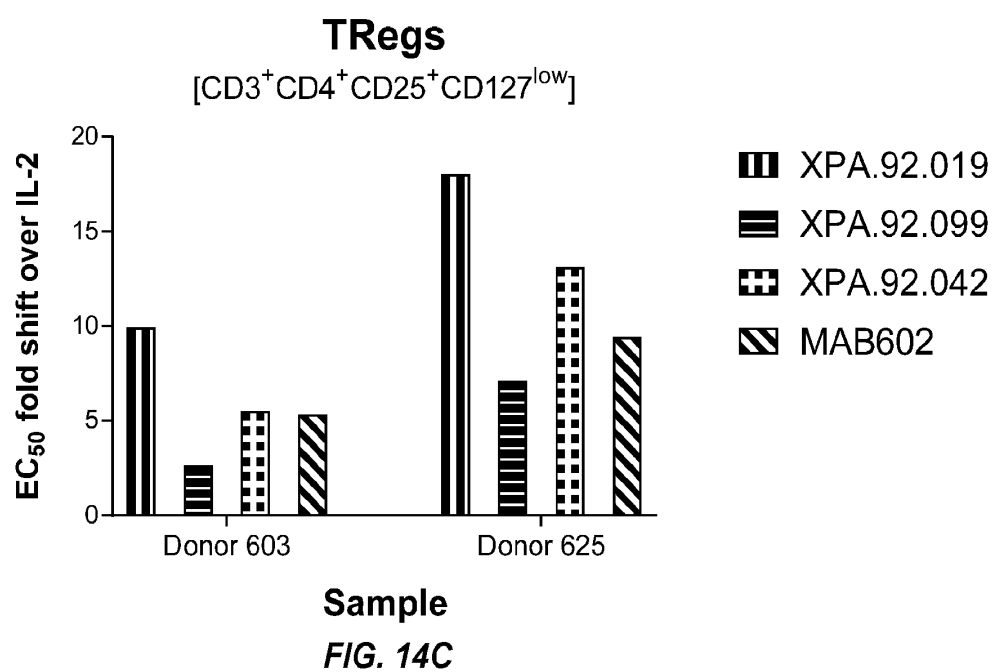
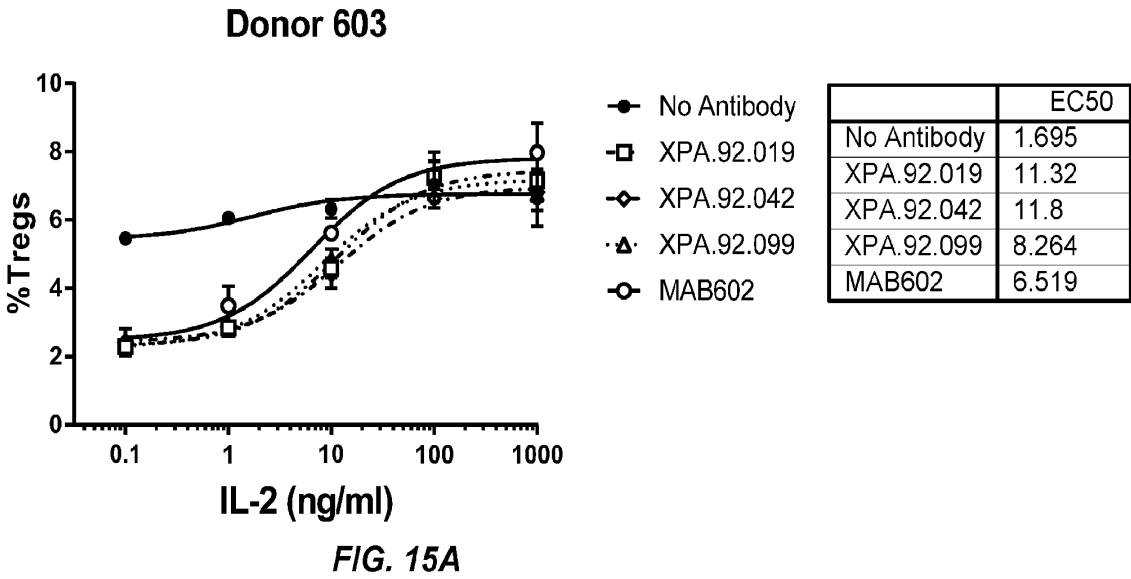
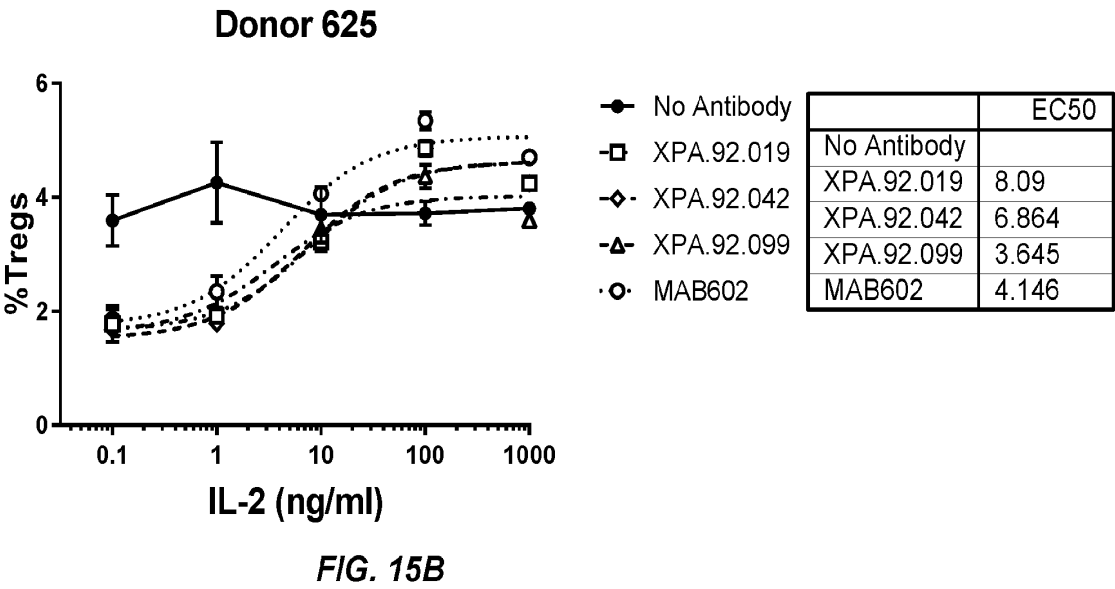


FIG. 14B





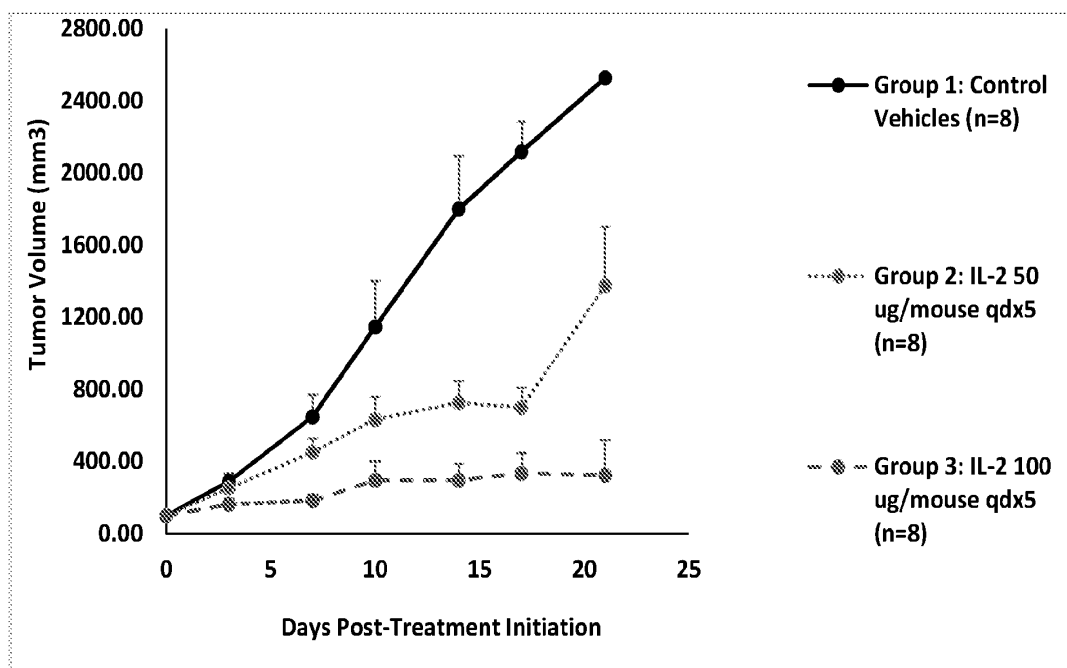


FIG. 16

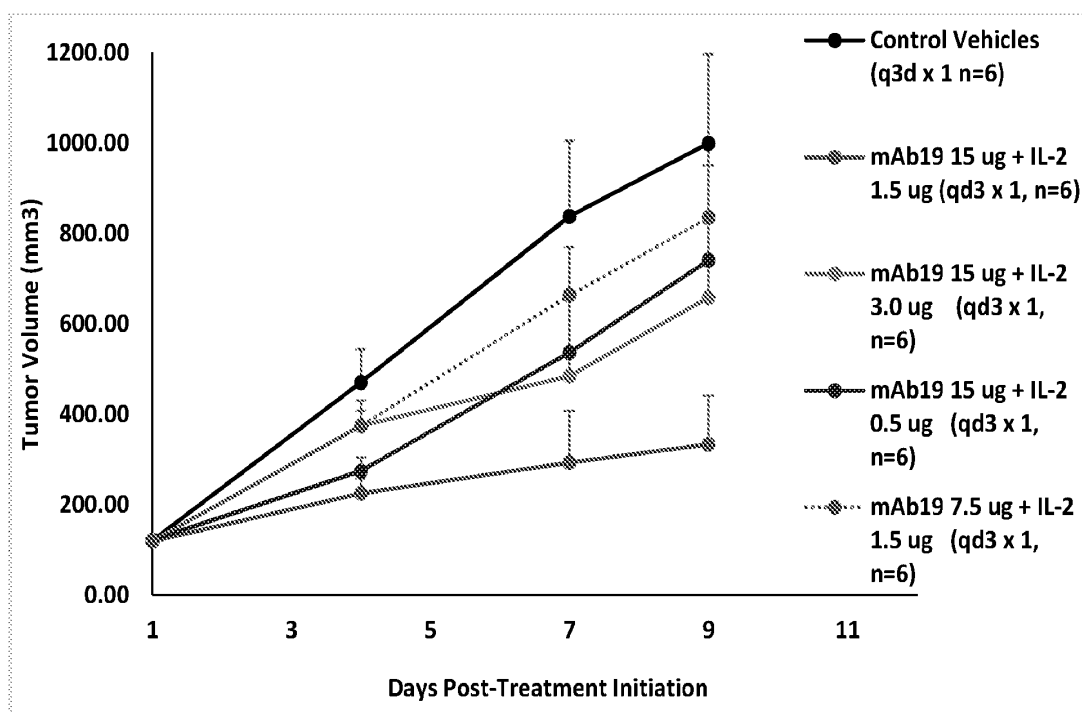


FIG. 17

FIG. 18