

FIGURE 1

SEQ ID	Description	Sequence
1	Heavy Chain Variable Region	QVQLQQPGAELVKPGASVKMSCKASGYFTSYNMHWVKQTPGRGLEWIG AIYPGNGDTSYNQKFKGKATLTADKSSSTAYMQLSSLTSEDSAVYYCARSTYY GGDWYFNVWGAGTTVTVSAA
2	Heavy Chain Constant Region – Option 1	STKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPA AVLQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTH TCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVAVSHEDPEVKFN WYVDGVEVHNAKTKPREEQYASTYRVVSVLTVLHQDWLNGKEYKCKVSNK ALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHE ALHNHYTQKSLSLSPGK
3	Heavy Chain Constant Region – Option 2	STKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPA AVLQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTH TCPPCPAPEAAGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFN WYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK ALAAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVE WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHE ALHNHYTQKSLSLSPGK
4	Heavy Chain, Full Length Sequence with signal – Option 1	<u>MMRP</u> IVLVLLFATSALA <u>QVQLQQPGAELVKPGASVKMSCKASGYFTSYNM</u> <u>HWVKQTPGRGLEWIGAIYPGNGDTSYNQKFKGKATLTADKSSSTAYMQLSS</u> <u>LTSEDSAVYYCARSTYYGGDWYFNVWGAGTTVTVSA</u> ASTKGPSVFPLAPSSK STSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSV VTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGP SVFLFPPKPKDTLMISRTPEVTCVVAVSHEDPEVKFNWYVDGVEVHNAK KPREEQYASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKG QPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYK TTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSL PGK
5	Heavy Chain, Full Length Sequence with signal – Option 2	<u>MMRP</u> IVLVLLFATSALA <u>QVQLQQPGAELVKPGASVKMSCKASGYFTSYNM</u> <u>HWVKQTPGRGLEWIGAIYPGNGDTSYNQKFKGKATLTADKSSSTAYMQLSS</u> <u>LTSEDSAVYYCARSTYYGGDWYFNVWGAGTTVTVSA</u> ASTKGPSVFPLAPSSK STSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSV VTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPEAAGG PSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK TKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALAAPIEKTISKAK GQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYK TTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSL SPGK

FIGURE 1- Cont.

SEQ ID	Description	Sequence
6	Heavy Chain, Full Length Sequence – Option 1	QVQLQQPGAELVKPGASVKMSCKASGYTFTSYNMHWVKQTPGRGLEWIG AIYPGNGDTSYNQKFKGKATLTADKSSSTAYMQLSSLTSEDSAVYYCARSTYY GGDWYFNVWGAGTTVTVSAASTKGPSVFPLAPSSKSTSGGTAALGCLVKDY FPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICNV NHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISR TPEVTCVVAVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYASTYRVVSVL TVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDEL KNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLT VDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK
7	Heavy Chain, Full Length Sequence – Option 2	QVQLQQPGAELVKPGASVKMSCKASGYTFTSYNMHWVKQTPGRGLEWIG AIYPGNGDTSYNQKFKGKATLTADKSSSTAYMQLSSLTSEDSAVYYCARSTYY GGDWYFNVWGAGTTVTVSAASTKGPSVFPLAPSSKSTSGGTAALGCLVKDY FPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICNV NHKPSNTKVDKKVEPKSCDKTHTCPPCPAPEAAGGPSVFLFPPKPKDTLMISR RTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSV LTVLHQDWLNGKEYKCKVSNKALAAPIEKTISKAKGQPREPQVYTLPPSRDEL TKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLT VDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK
8	Light Chain Variable Region	QIVLSQSPAILSASPGEKVTMTCRASSSVSYIHWFQQKPGSSPKWIYATSNL ASGVPPVRFSGSGSGTSYSLTISRVEAEDAATYYCQQWTSNPPTFGGGTKLEIK
9	Light Chain Constant Region	RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNS QESVTEQDSKDSSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRG EC
10	Linker	APTSSSGGGGS
11	A1-A2 Domain	EPHSLSYDITVIPKFRPGPRWCAVQGQVDEKTFLLHYDCGQKTVTPVSPGKK LQVTTAWKAQNPVLREVVDILTEQLWDIQLENYTPKEPLTLQARMSCEQKA EGHSSGSWQFSFDGQIFLLFDSEKRMWTTVHPGARKMKEKWENDKVVAT KLYLWSMGDCIGWLEDFLMGMDSTLEPS
12	Light Chain, Full Length Fusion Sequence with signal	MMRPVIVLLFATSALA QIVLSQSPAILSASPGEKVTMTCRASSSVSYIHWF QQKPGSSPKWIYATSNLASGVPPVRFSGSGSGTSYSLTISRVEAEDAATYY CQQWTSNPPTFGGGTKLEIK RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNF YPREAKVQWKVDNALQSGNSQESVTEQDSKDSSTYSLSSTLTLSKADYEKHKV YACEVTHQGLSSPVTKSFNRGEC APTSSSGGGGS EPHSLSYDITVIPKFRPGP RWCAVQGQVDEKTFLLHYDCGQKTVTPVSPGKKLQVTTAWKAQNPVLREV VDILTEQLWDIQLENYTPKEPLTLQARMSCEQKAEGHSSGSWQFSFDGQIFL LFDSEKRMWTTVHPGARKMKEKWENDKVVATKLYLWSMGDCIGWLEDFL MGMDSTLEPS

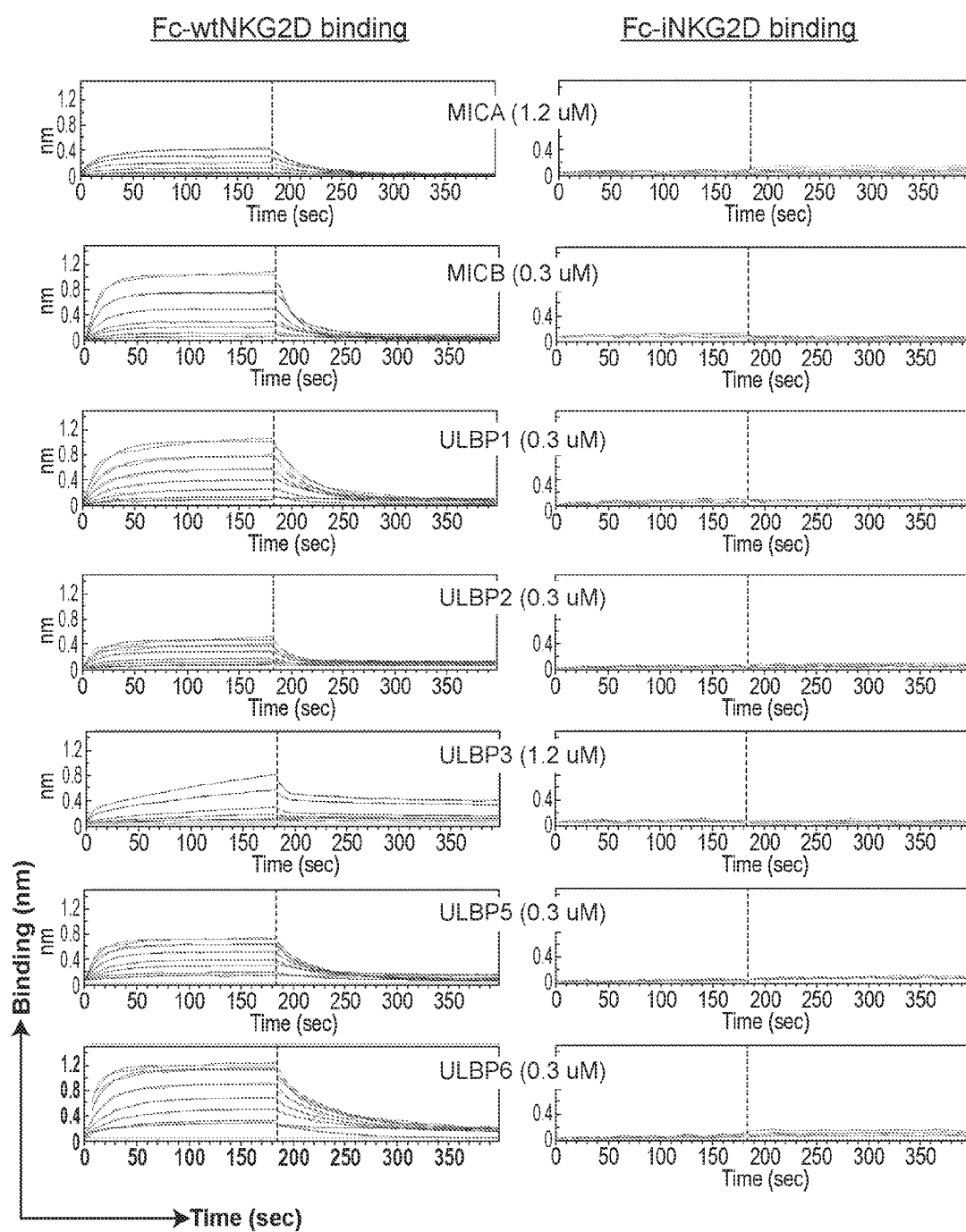
FIGURE 1- Cont.

SEQ ID	Description	Sequence
13	Light Chain, Full Length Fusion Sequence with A1-A2 domain and linker	QIVLSQSPAILASAPGEKVTMTCRASSSVSYIHWFAQKPGSSPKPWYATS NLASGVVPRFSGSGSGTSYSLTISRVEAEDAATYYCQWTSNPPTFGGGT KLEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQ SGNSQESVTEQDSKDYSLSSLTLSKADYEKHKVYACEVTHQGLSSPVTKSF NRGECAPTSSSGGGGSEPHSLSYDITVIPKFRPGPRWCVAVQGVDEKTFLLHY DCGQKTVTPVSPGKLLQVTTAWKAQNPVLREVVDILTEQLWDIQLENYTP KEPLTLQARMSCEQKAEGHSSGSWQFSFDGQIFLLFDSEKRMWTTVHPGA RKMKEKWENDKVATKLYLWSMGDCIGWLEDFLMGMDSTLEPS
14	Linker	GGGS
15	iNKG2D domain	<i>LFNQEVQIPLTESYCGPCPNWICYKNNCYQFFDESKNWYESQASCM SQNA SLLKVYSKEDQDLLKLVKSAHWMGLVHIPTNGSWQWEDGSILSPNLLTIEM QKGDICALYASSFKGYIENCSTPNTYICMQRTV</i>
16	CD8a hinge/tm domain	TTTPAPRPPTAPTASQPLSLRPEACRPAAGGAVHTRGLDFACDIYWAPLA GTCGVLLSLVITLYCSL
17	4-1BB domain	<u><i>KRGRKKLLYIFKQPFMRPVQTTQEEDGCSCRFPEEEGGGCEL</i></u>
18	CD3 ζ domain	RVKFSRSADAPAYKQGGQNQLYNELNLGRREEYDVLDKRRGRDPEMGGKP RRKNPQEGLYNELQKDKMAEAYSEIGMKGERRRGKGGHDGLYQGLSTATK DTYDALHMQALPPR
19	iNKG2D domain + CD8a hinge/tm domain + 4-1BB domain + CD3 ζ domain	<i>LFNQEVQIPLTESYCGPCPNWICYKNNCYQFFDESKNWYESQASCM SQNA SLLKVYSKEDQDLLKLVKSAHWMGLVHIPTNGSWQWEDGSILSPNLLTIEM QKGDICALYASSFKGYIENCSTPNTYICMQRTVTTTPAPRPPTAPTASQPLSL RPEACRPAAGGAVHTRGLDFACDIYWAPLAGTCGVLLSLVITLYCSL</i> <u><i>KRGR KKLLYIFKQPFMRPVQTTQEEDGCSCRFPEEEGGGCEL</i></u> RVKFSRSADAPAYK QGGQNQLYNELNLGRREEYDVLDKRRGRDPEMGGKPRRKNPQEGLYNEL QKDKMAEAYSEIGMKGERRRGKGGHDGLYQGLSTATKDTYDALHMQALP PR
20	Signal sequence + iNKG2D domain + CD8a hinge/tm domain + 4-1BB domain + CD3 ζ domain + linker + eGFP	<u><i>MALPVTALLPLALLHAARPLFNQEVQIPLTESYCGPCPNWICYKNNCYQF FDESKNWYESQASCM SQNASLLKVYSKEDQDLLKLVKSAHWMGLVHIPTN GSWQWEDGSILSPNLLTIEMQKGDICALYASSFKGYIENCSTPNTYICMQRTV TTTPAPRPPTAPTASQPLSLRPEACRPAAGGAVHTRGLDFACDIYWAPLA GTCGVLLSLVITLYCSL</i></u> <u><i>KRGRKKLLYIFKQPFMRPVQTTQEEDGCSCRFPEEE EGGCEL</i></u> RVKFSRSADAPAYKQGGQNQLYNELNLGRREEYDVLDKRRGRDPE MGGKPRRKNPQEGLYNELQKDKMAEAYSEIGMKGERRRGKGGHDGLYQ GLSTATKDTYDALHMQALPPRSGSGSGSGSMVSKGEELFTGVVPILVELDG DVNGHKFSVSGEGDATYGKLT LKFICTTGKLPVPWPTLVTTLTLYGVQCFS RYPDHMKQHDFKSA MPEGYVQERTIFFKDDGNYKTRAEVKFEGDTLVNRI ELKGIDFKEDGNILGHKLEYNNSHNVIYIMADKQKNGIKANFKIRHNIEDGS VQLADHYQQNTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMVLLFVTA AGITLGMDELYK

FIGURE 1- Cont.

SEQ ID	Description	Sequence
21	Light Chain, Full Length	QIVLSQSPAILSASPGEKVTMTCRASSSVSYIHWFQQKPGSSPKPWYATS NLASGVPVRFSGSGGTSYSLTISRVEAEDAATYYCQQWTSNPPTFGGGT KLEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQ SGNSQESVTEQDSKDYSLSSLTLSKADYEKHKVYACEVTHQGLSSPVTKSF NRGEC

FIGURE 2A



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FIGURE 2A

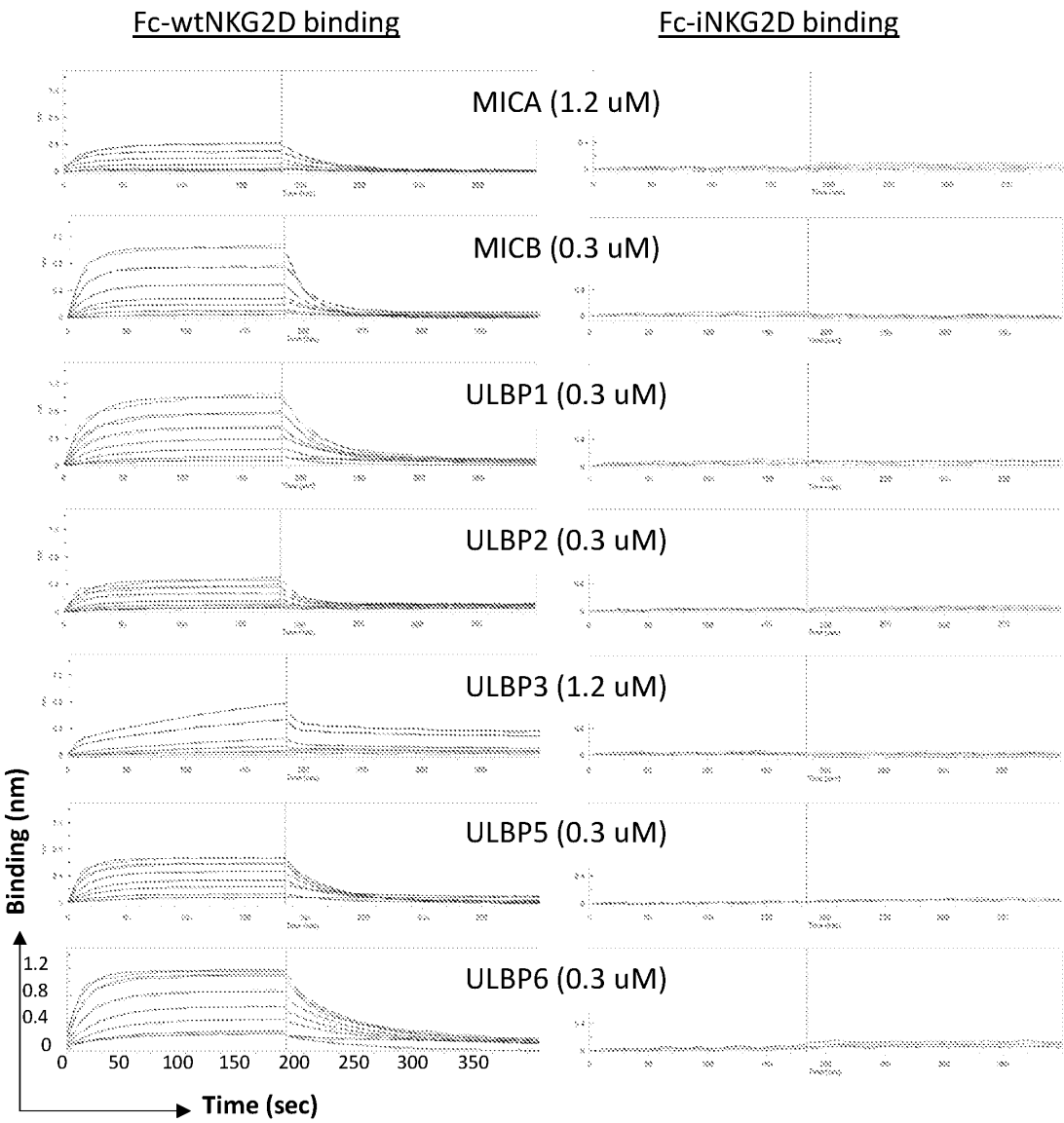


FIGURE 2B

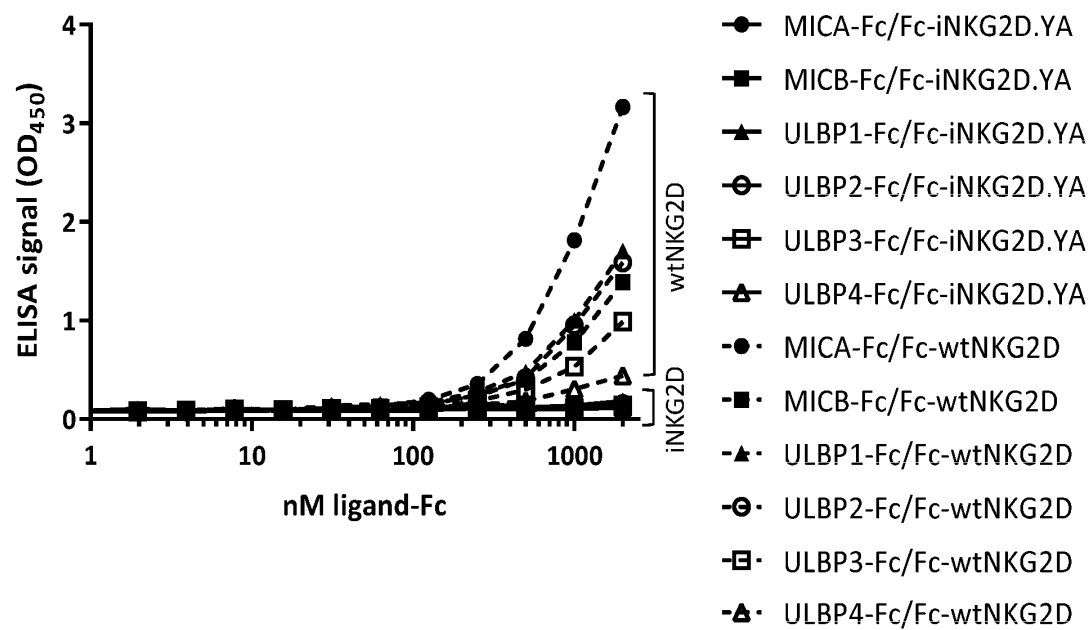


FIGURE 3A

◆ MICA ◆ MICB ◆ ULBP1 ◆ ULBP2 ◆ ULBP3 ◆ ULBP4

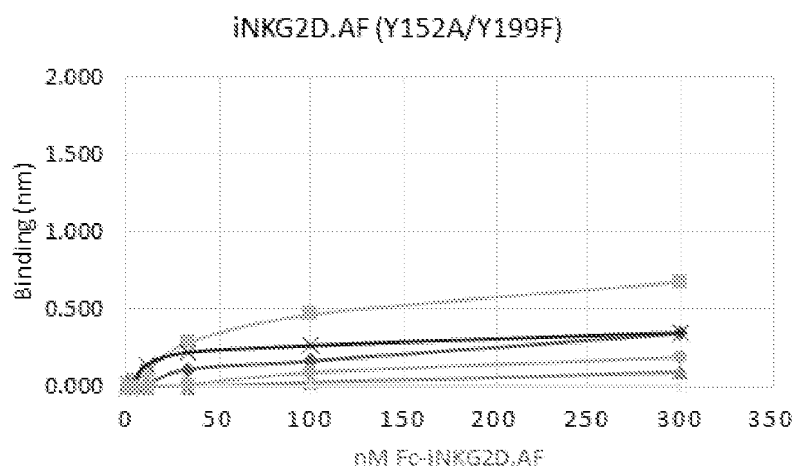
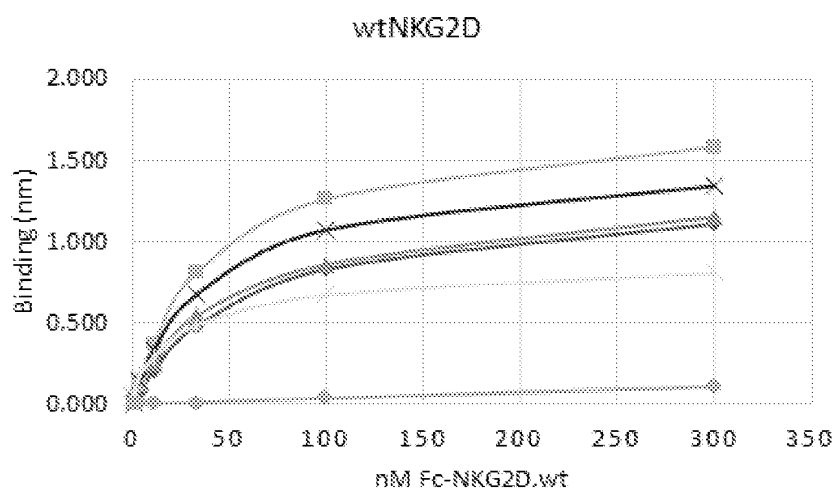


FIGURE 3B

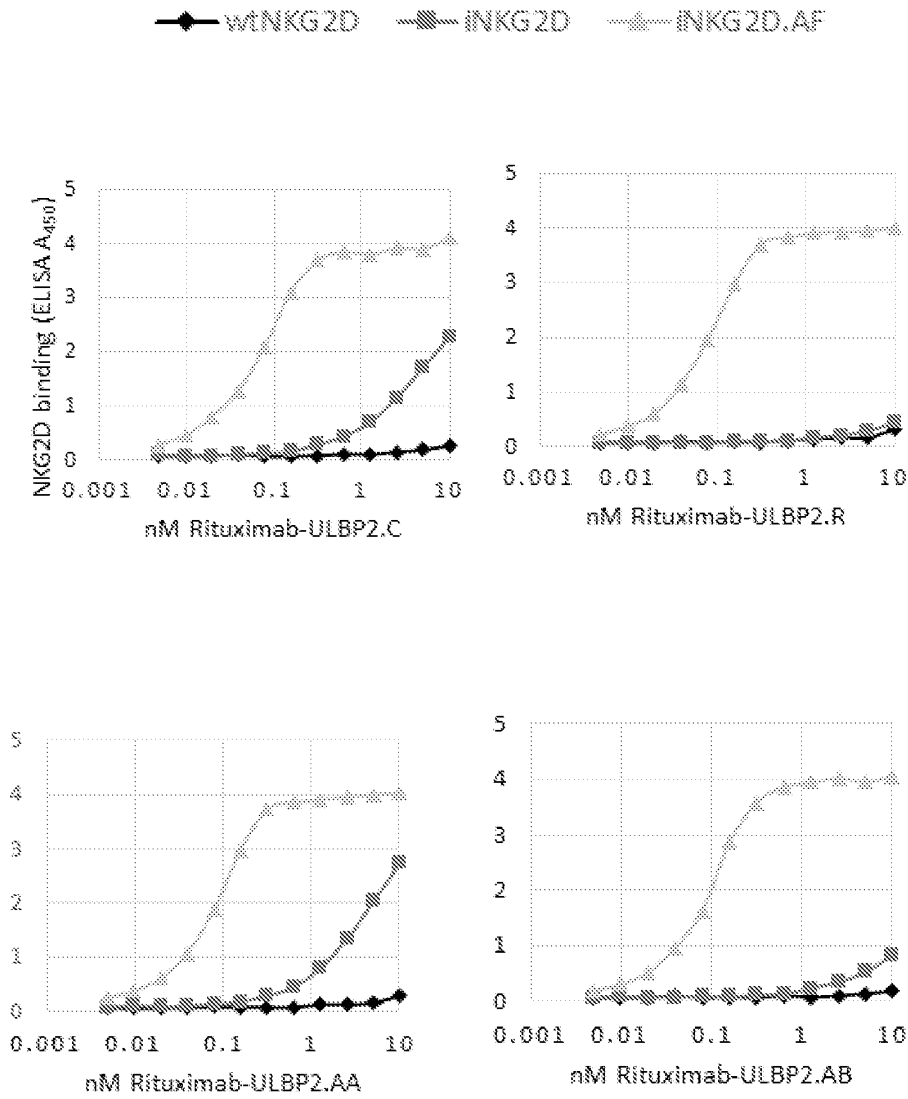


FIGURE 3C

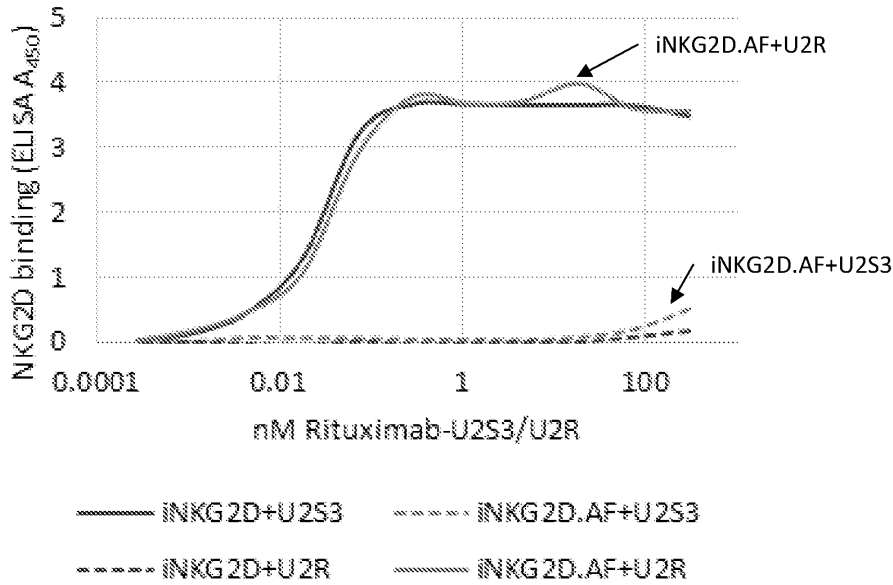
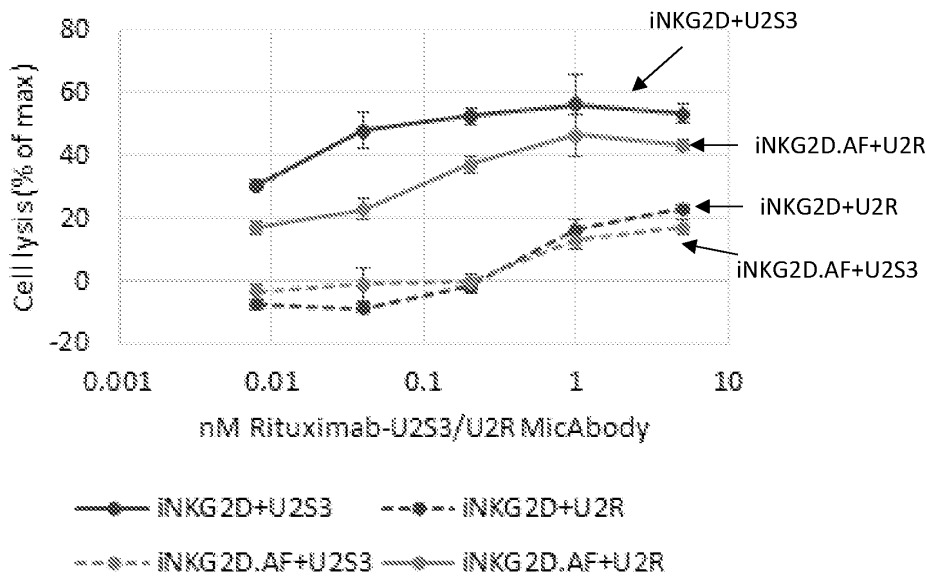


FIGURE 3D



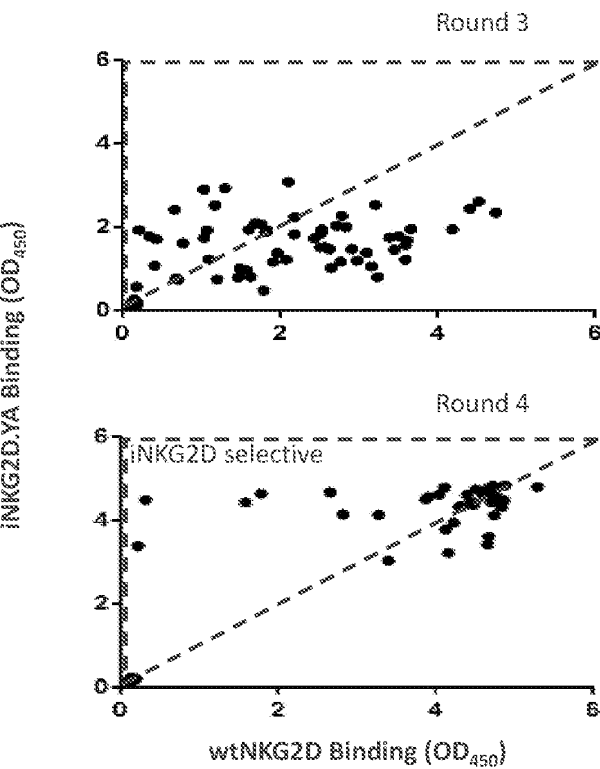


FIGURE 4A

FIGURE 4B

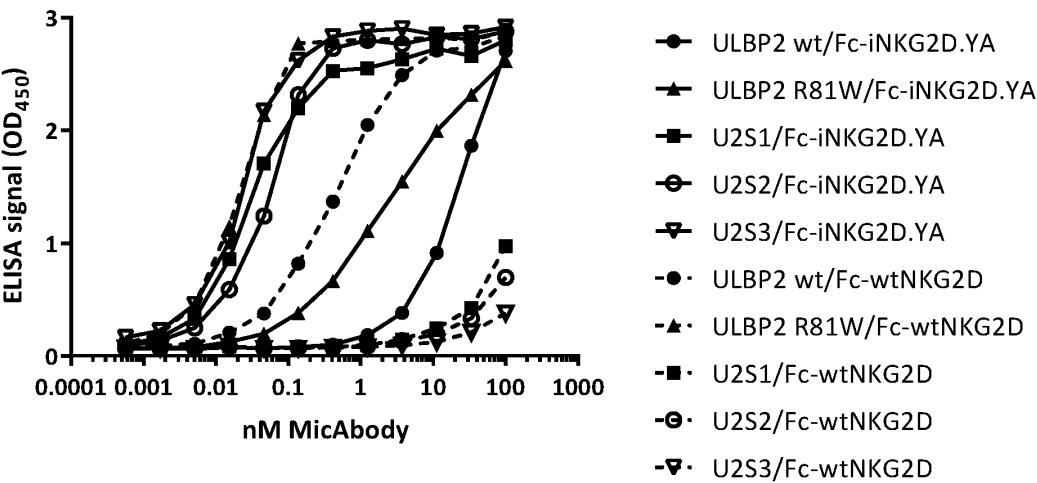


FIGURE 4C

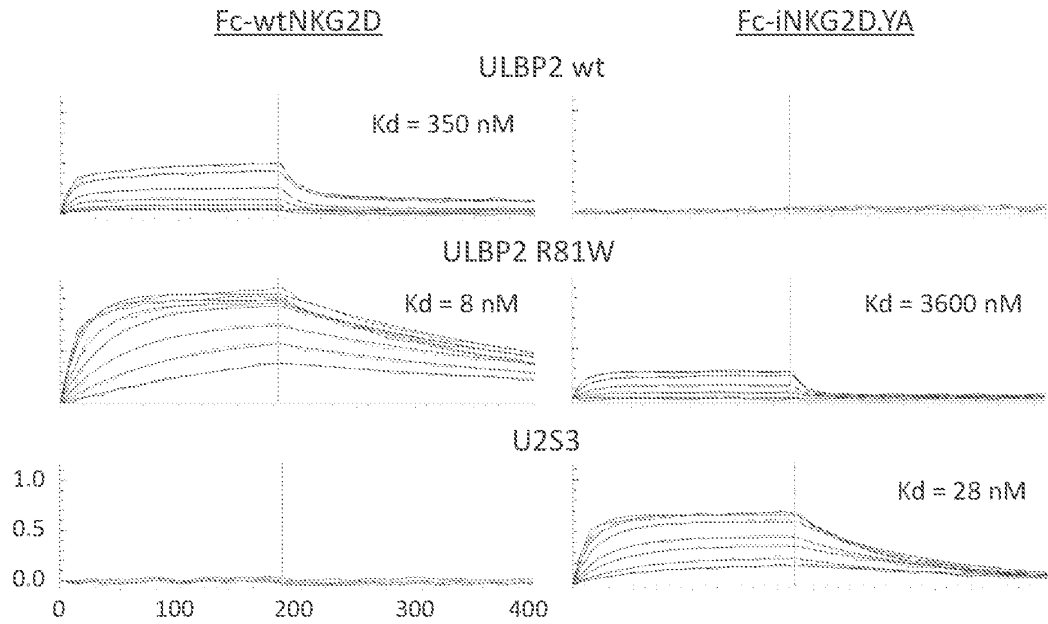


FIGURE 5

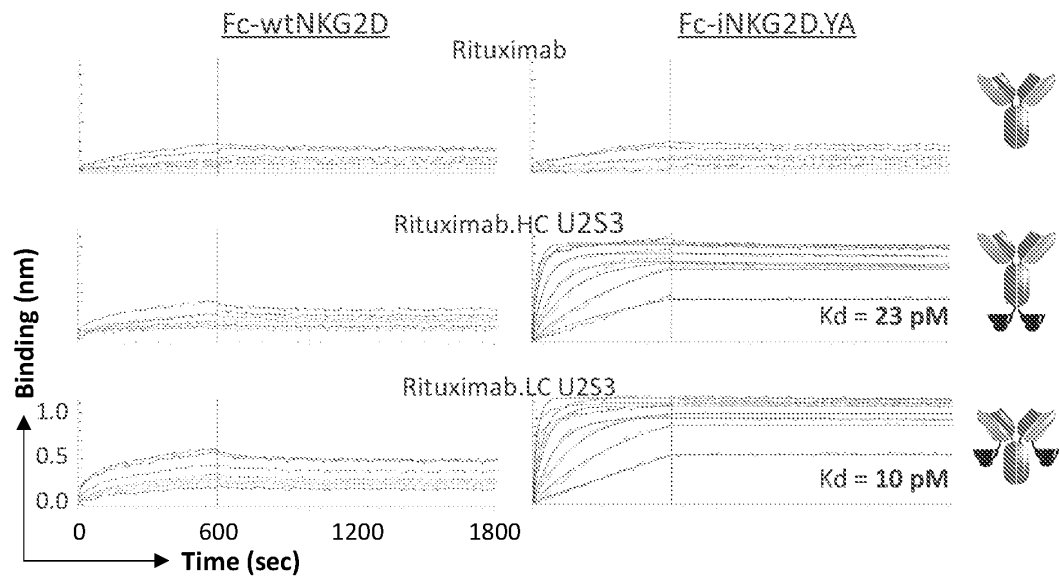
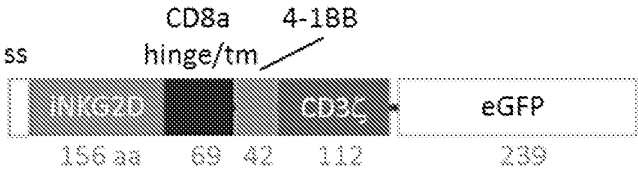


FIGURE 6



MALPVTALLPLALLHAARPLFNQEVQIPLTESYCGPCPNWICYKNNCYQFFDESKNWYESQAS
CMSQNASLLKVYSKEDQDLLKLVKSAHWMGLVHIPTNGSWQWEDGSILSPNLLTIEMQKGDCA
LYASSFKGYIENCSTPNTYICMQRVTTPAPRPPTPAPTASQPLSLRPEACRPAAGGAVHTRGLD
FACDIYWAPLAGTCGVLLLSLVITLYCSLKRGRKKLLYIFKQPFMRPVQTTQEEDGCSCRFPEEEEGG
CELRVKFSRSADAPAYKQGQNQLYNELNLGRREEYDVLDKRRGRDPEMGGKPRRKNPQEGLY
NELQKDKMAEAYSEIGMKGERRRGKGHDGLYQGLSTATKDTYDALHMQALPPRS
MVSKGEELFTGVVPILVELDGDVNGHKFSVSGEGEGDATYGKLTCLKFICTTGKLPVPWPTLVTTLT
GVQCFSRYPDHMKQHDFKSAWPEGYVQERTIFFKDDGNYKTRAEVKFEGDTLVNRIELKGIDFK
EDGNILGHKLEYNYNHNVYIMADKQKNGIKANFKIRHNIEDGSVQLADHYQQNTPIGDGPVLL
PDNHYLSTQSALS KDPNEKRDMVLLEFVTAAGITLGMDELYK (SEQ ID NO: 20)

FIGURE 7A

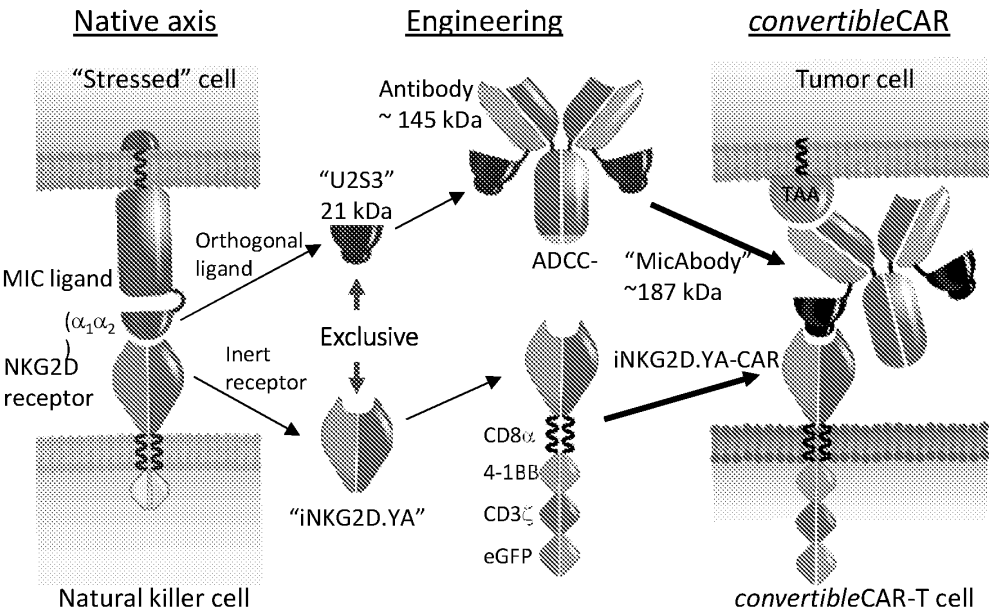


FIGURE 7B

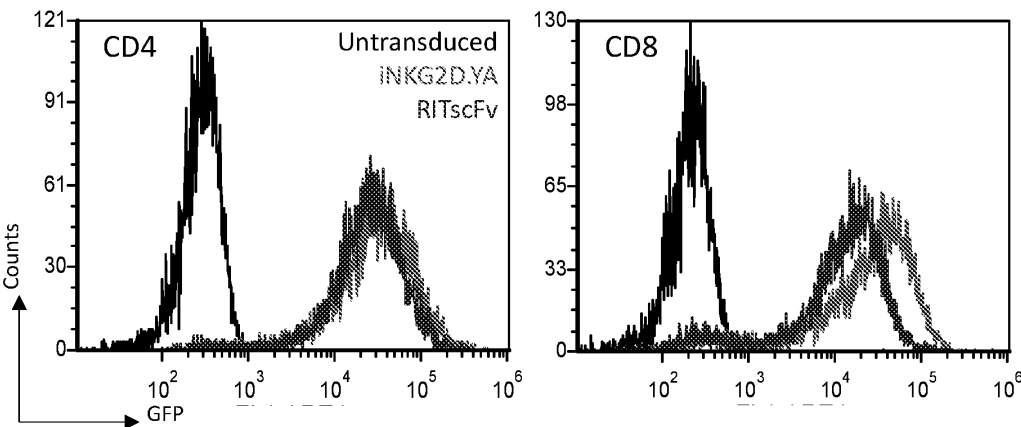


FIGURE 7C

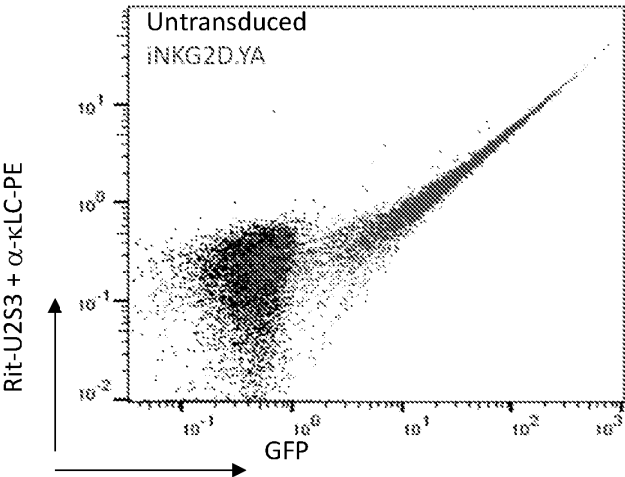


FIGURE 8A

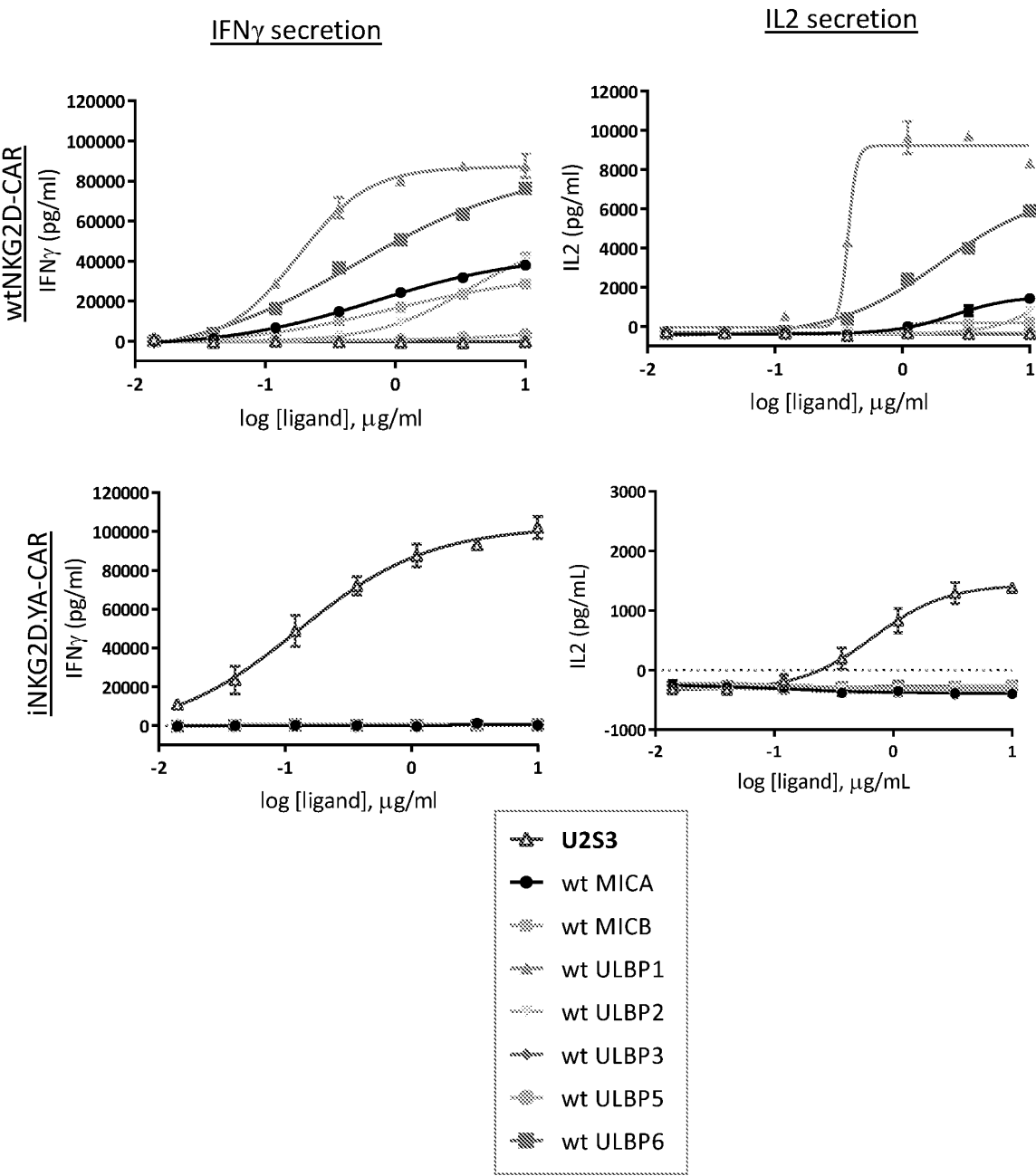


FIGURE 8B

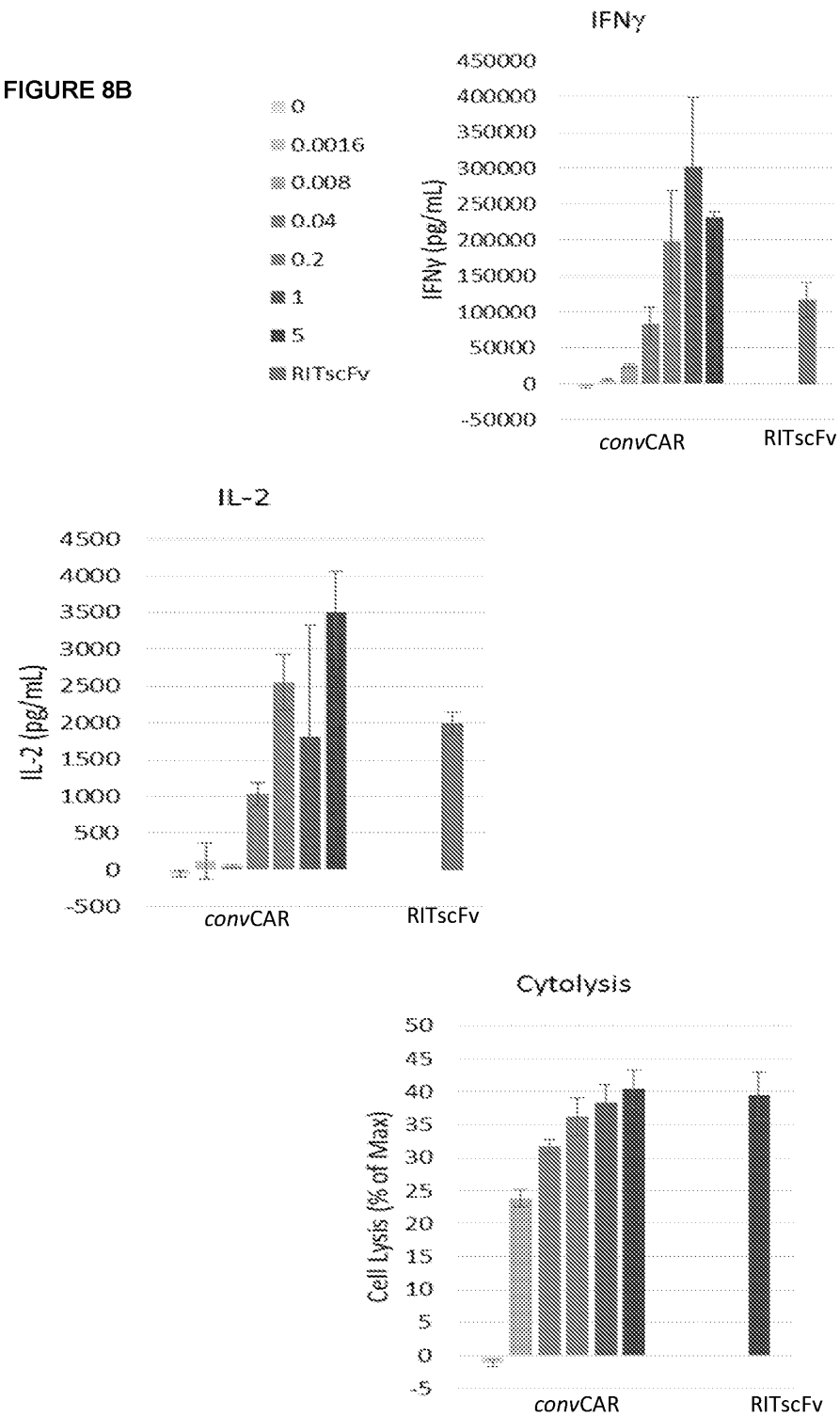


FIGURE 8C

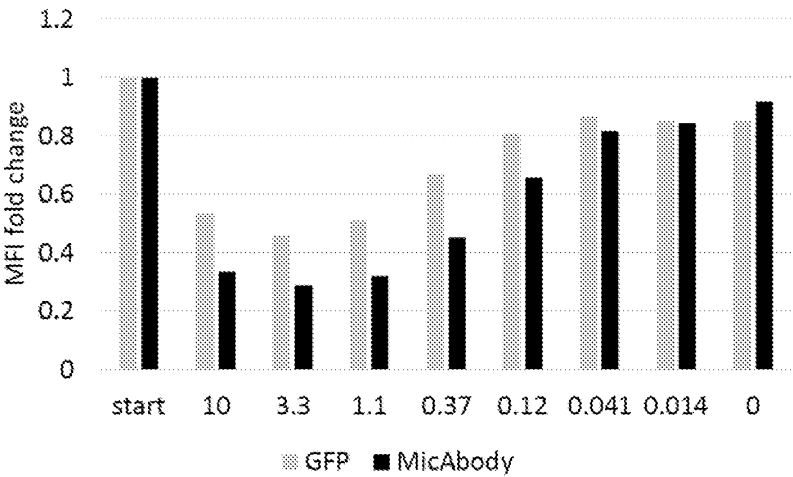
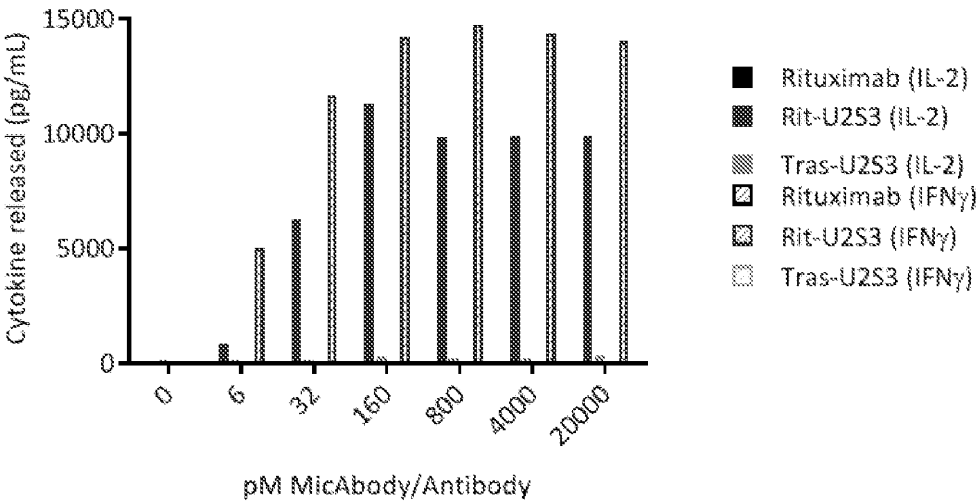


FIGURE 9A



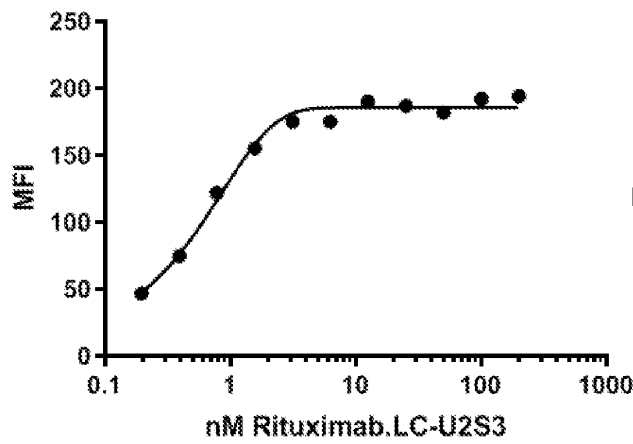


FIGURE 9B

FIGURE 9C

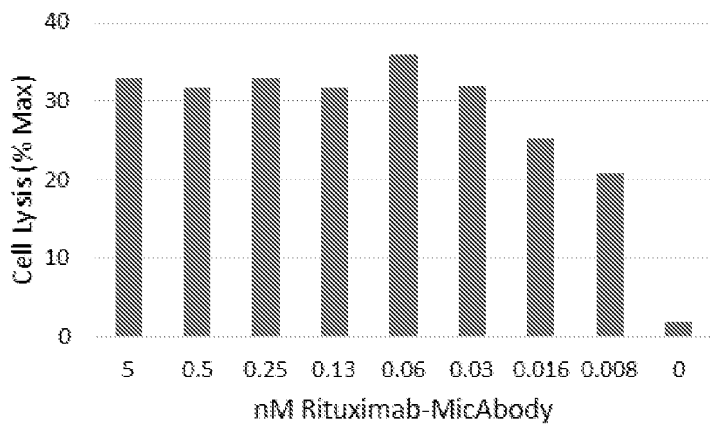
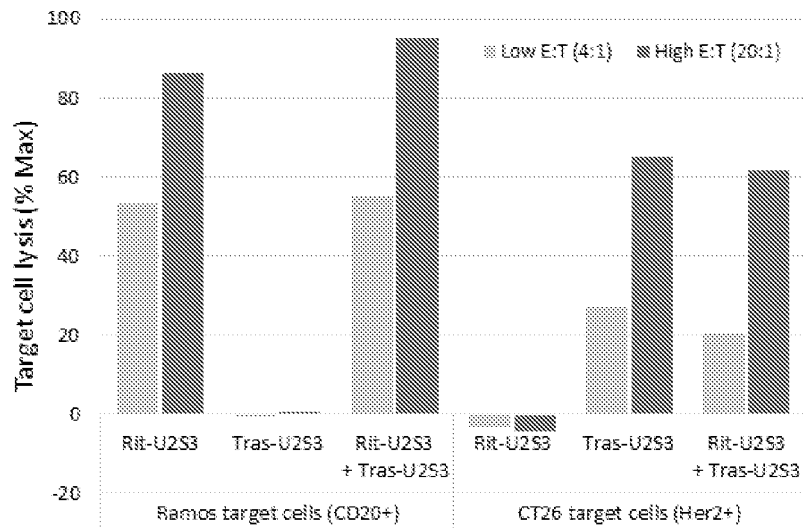


FIGURE 9D

FIGURE 10A

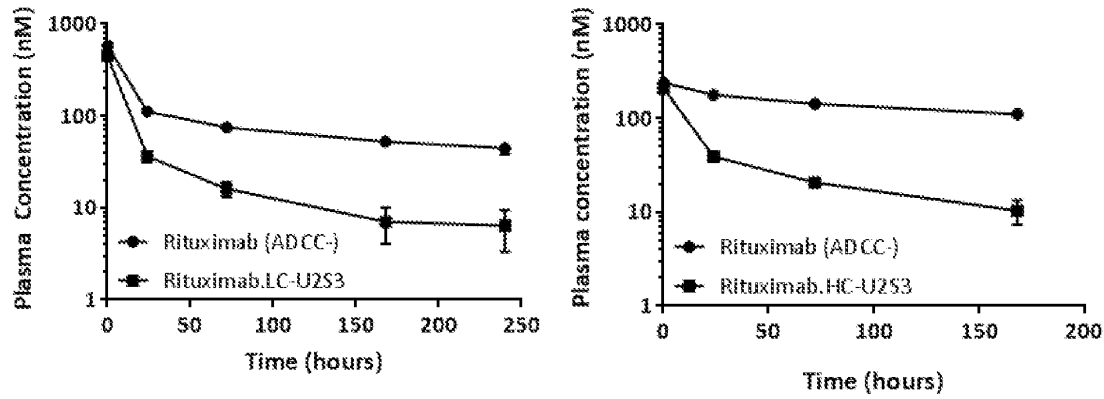


FIGURE 10B

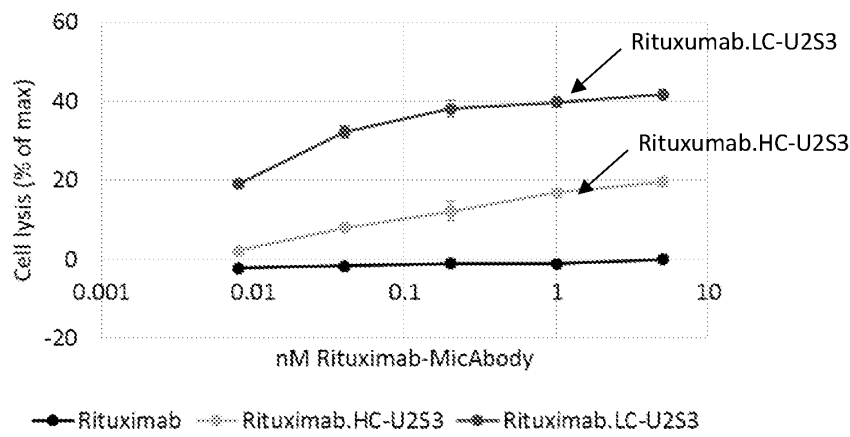
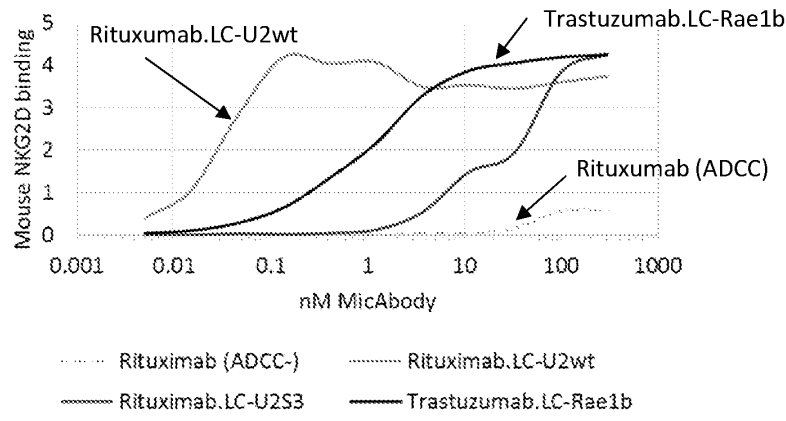
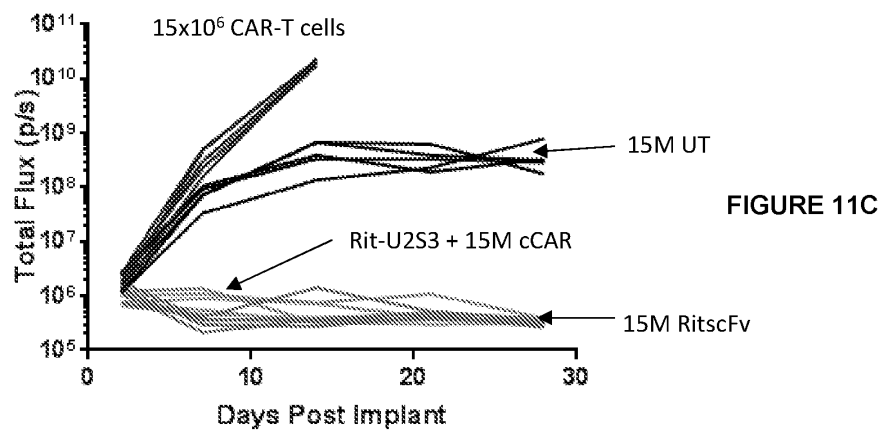
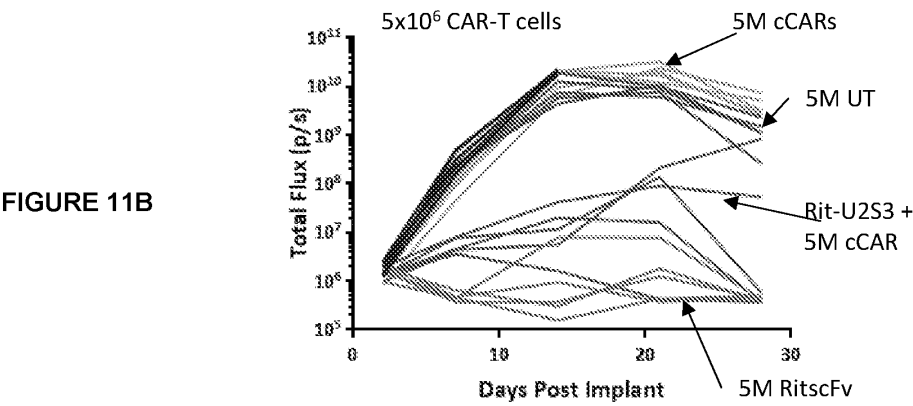
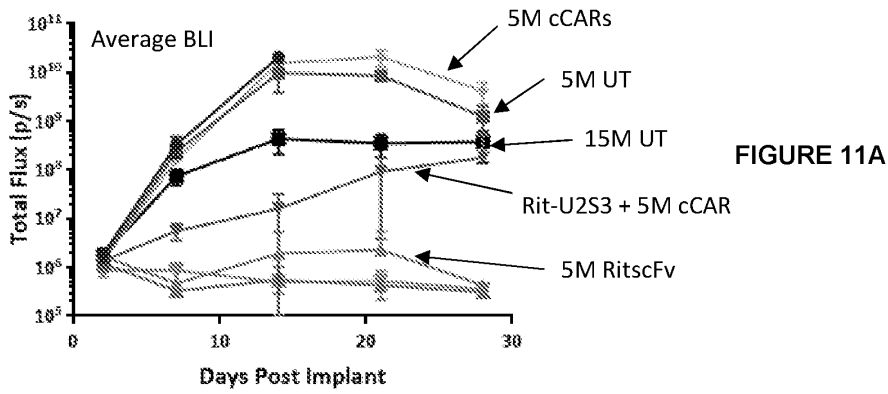
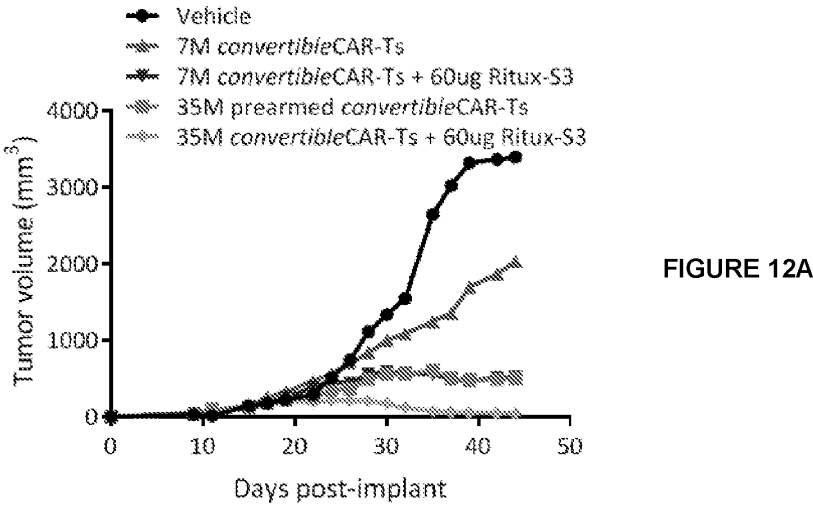
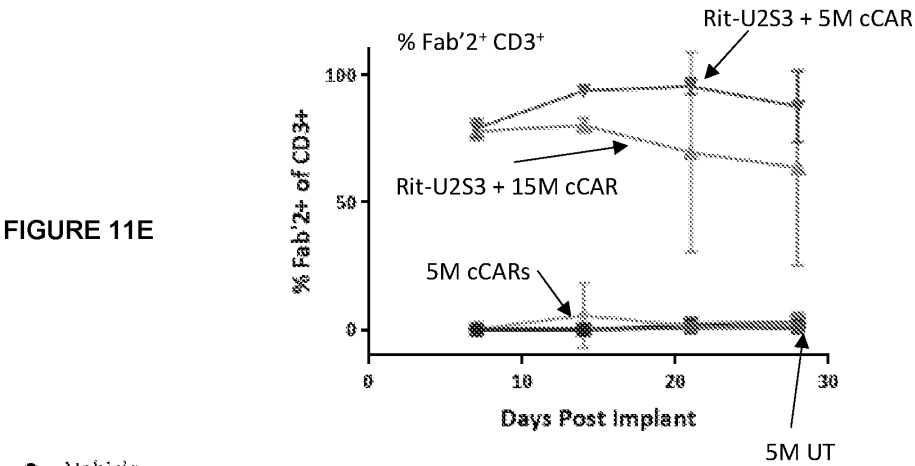
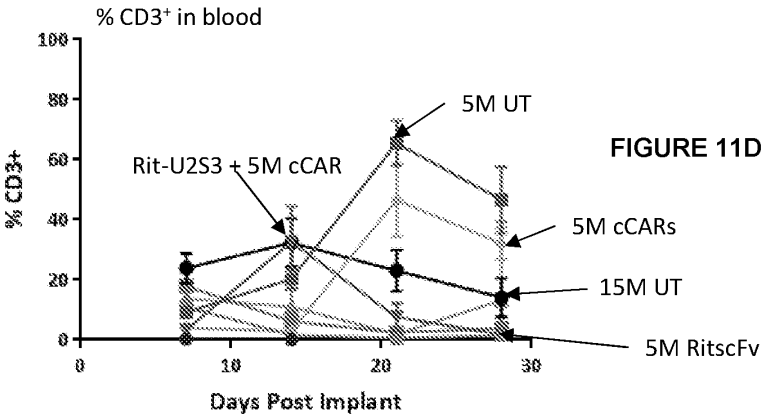
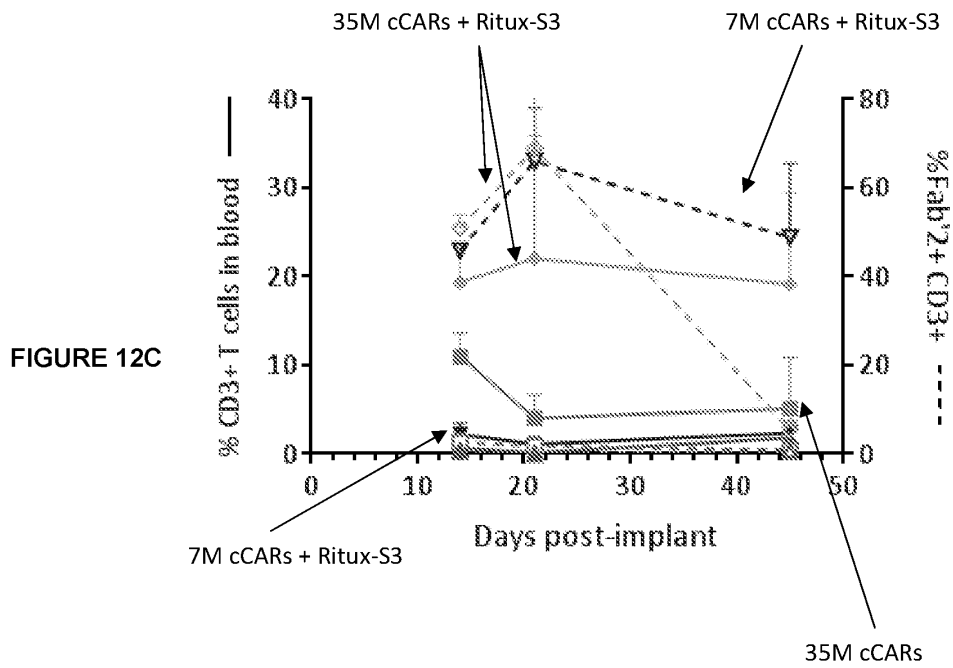
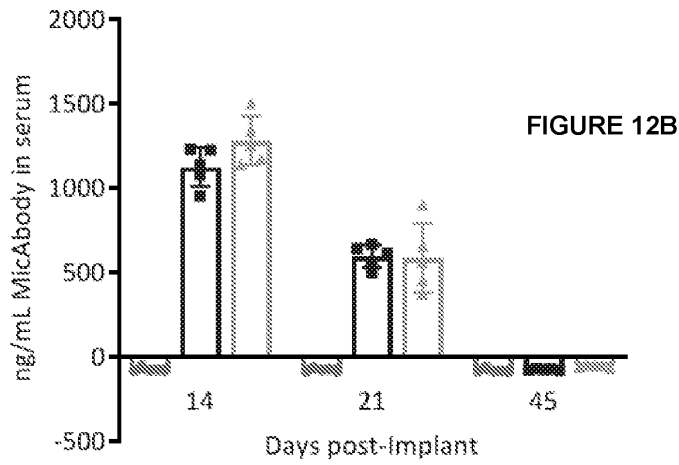


FIGURE 10C









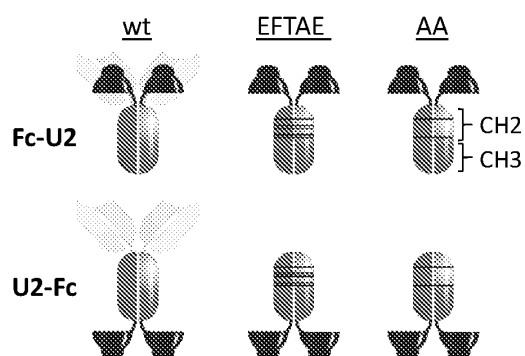
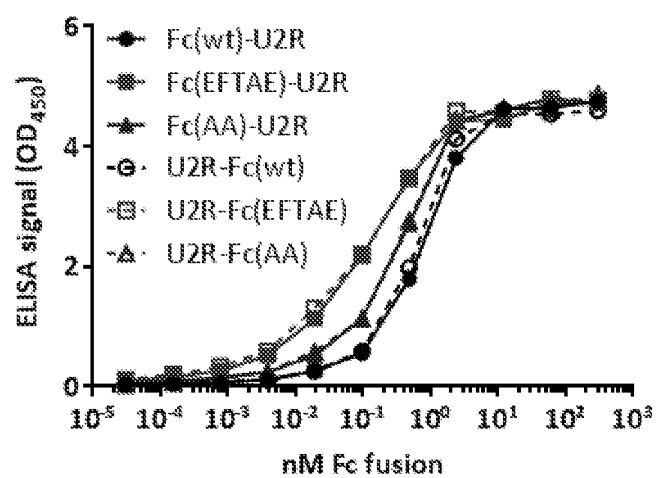


FIGURE 13A

FIGURE 13B



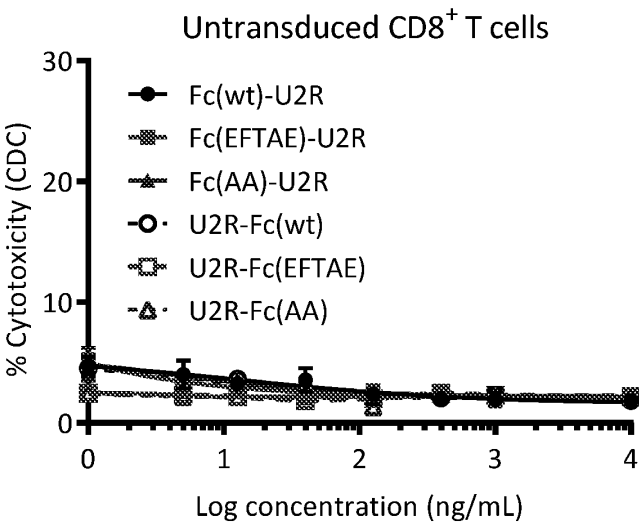


FIGURE 13C

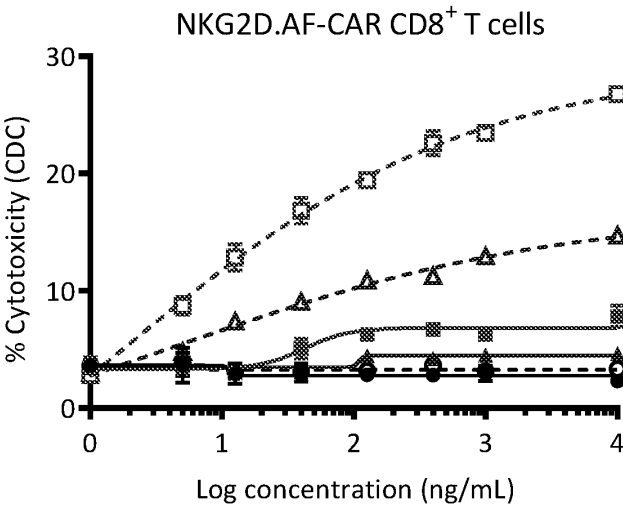


FIGURE 13D

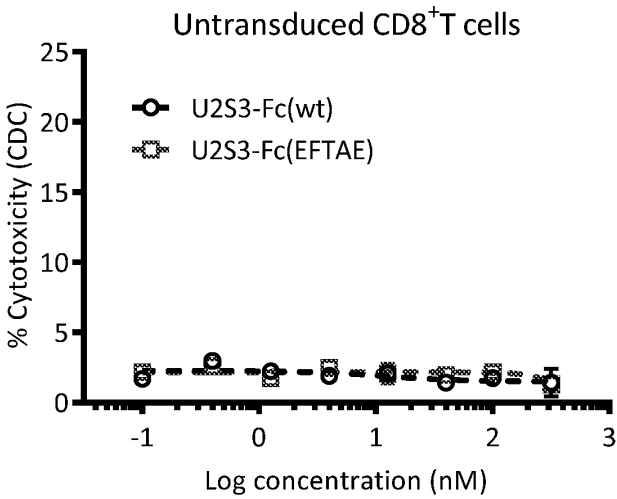


FIGURE 13E

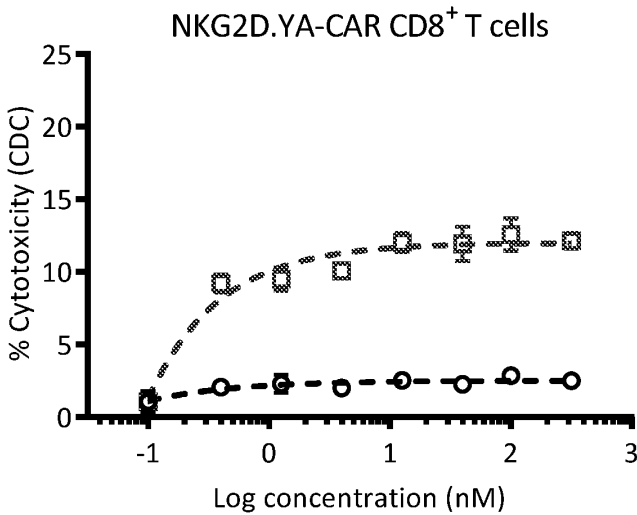


FIGURE 13F

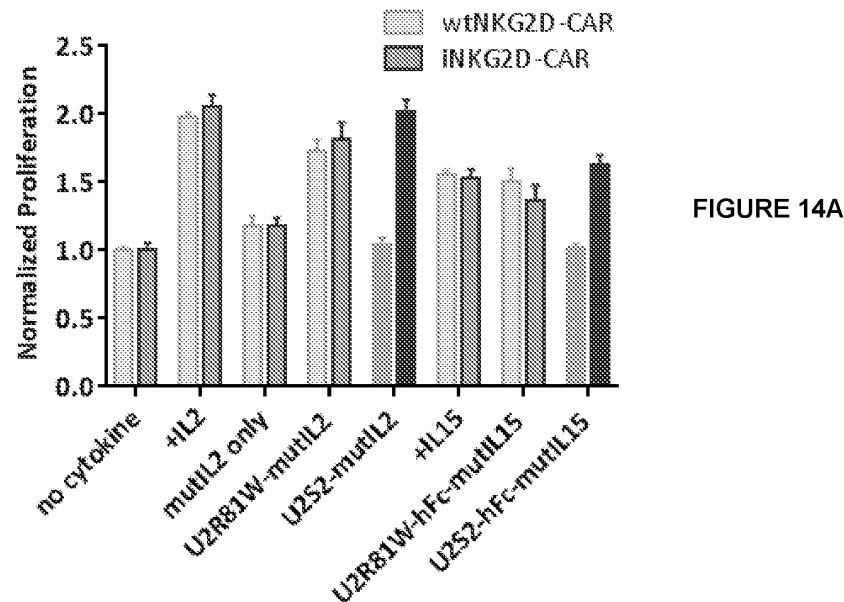
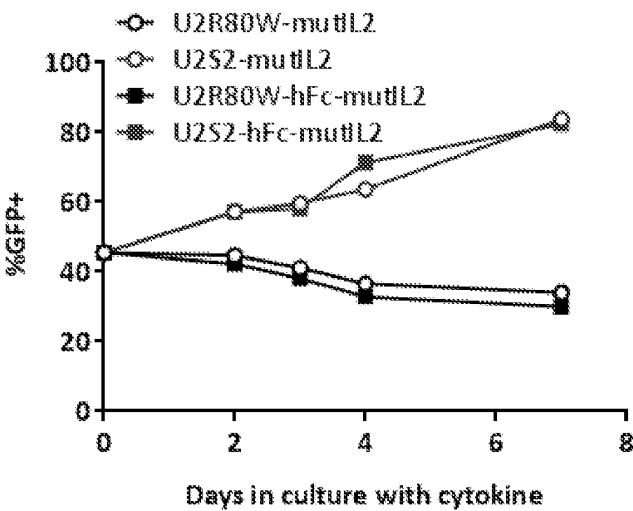


FIGURE 14B



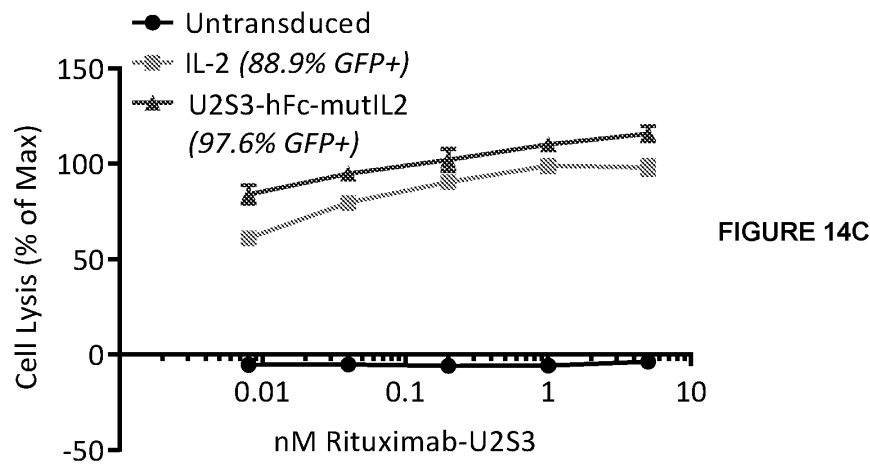


FIGURE 14C

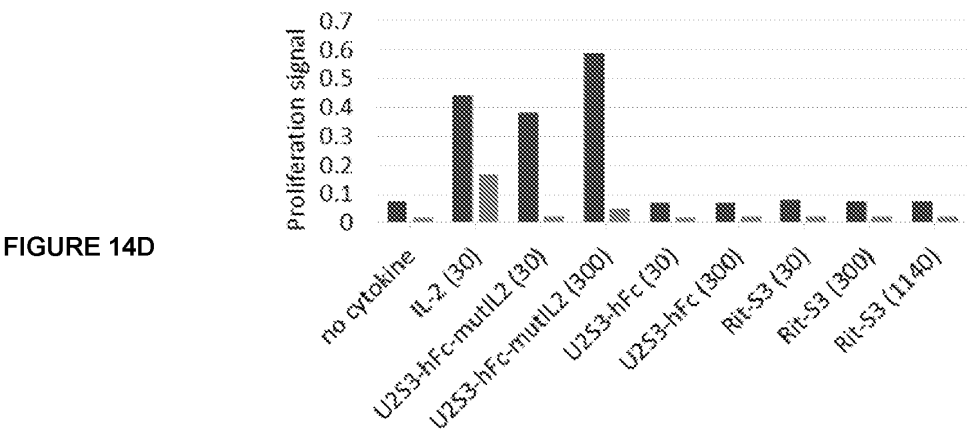


FIGURE 14D

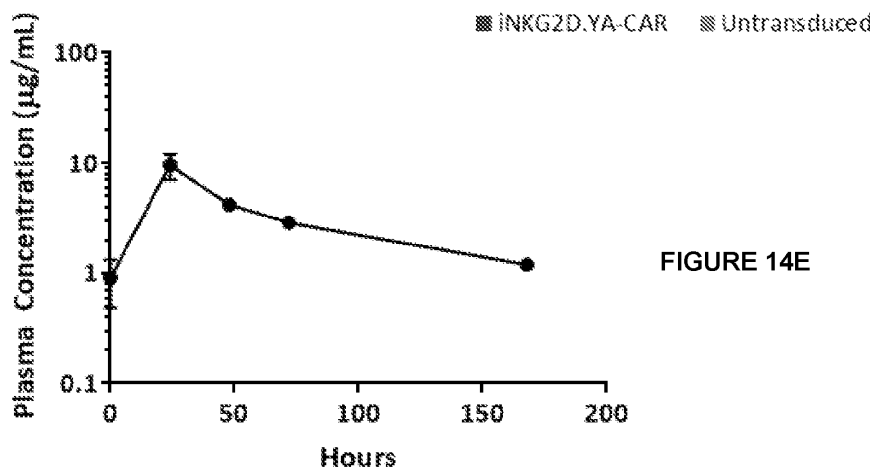


FIGURE 14E

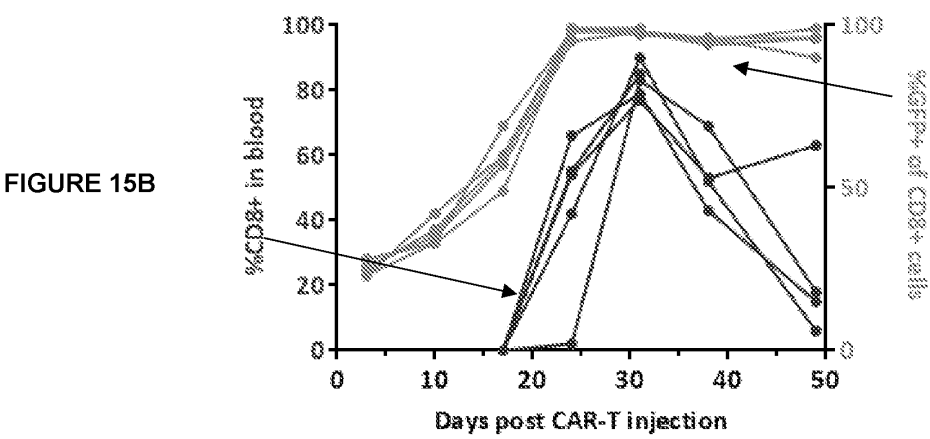
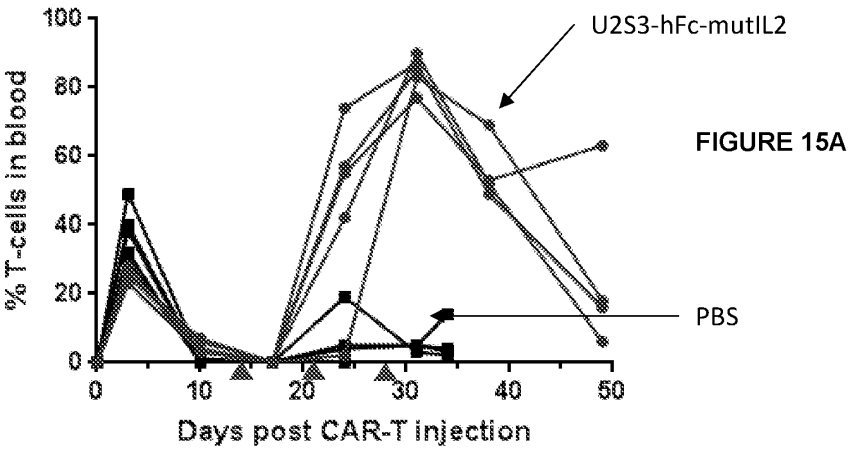


FIGURE 16

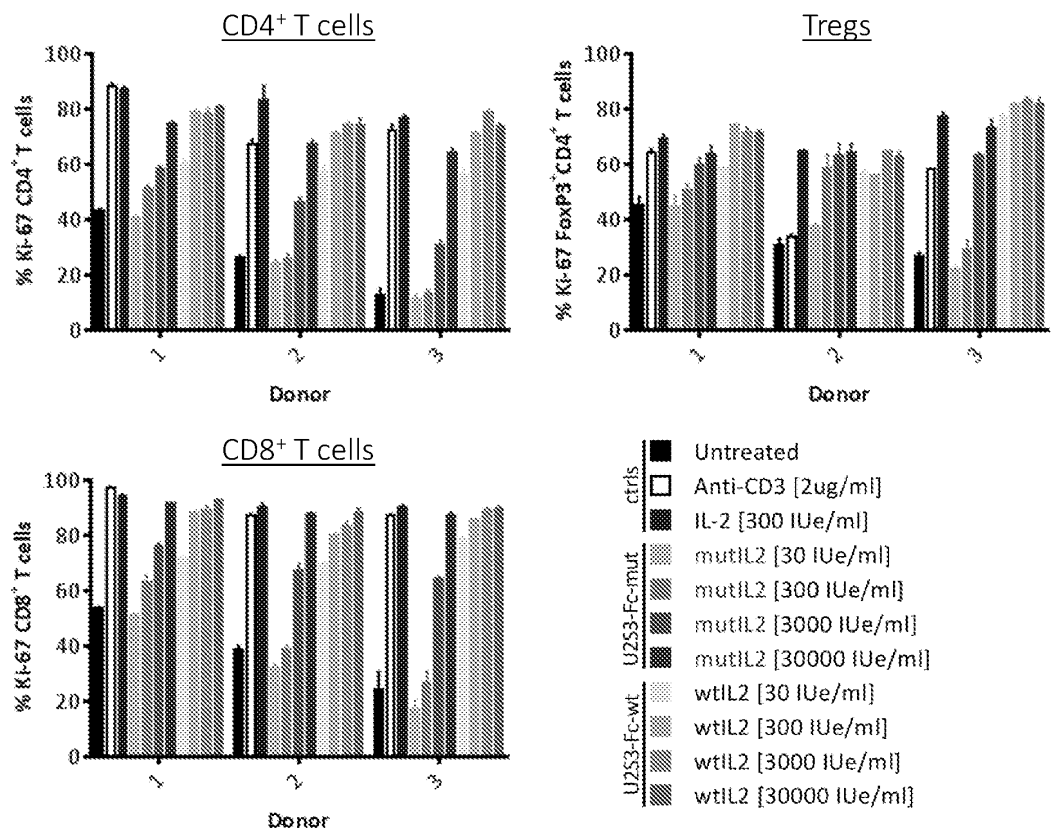


FIGURE 17A

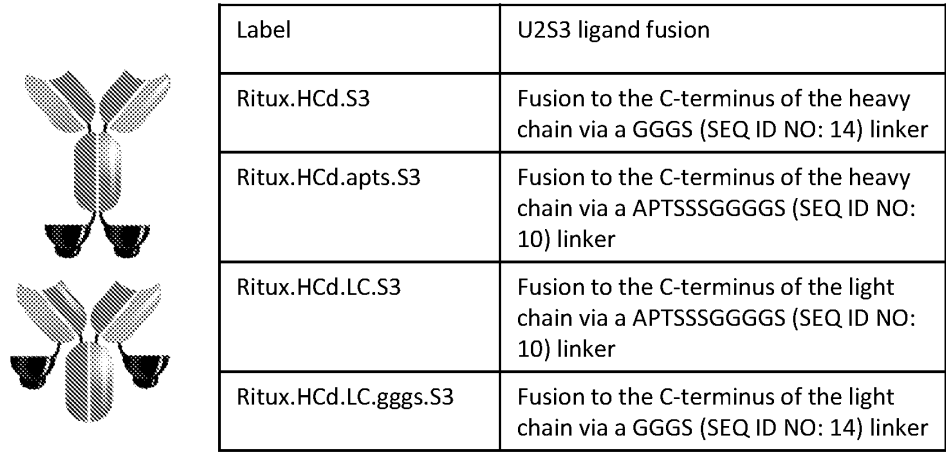


FIGURE 17B

