

FIG. 1A

Heavy chain hu5c8 (SEQ ID NO: 21)

QVQLVQSGAE	VVKPGASVKL	SCKASGYIFT	SYMYWVKQA	PGQGLEWIGE
INPSNGDTNF	NEKFKSKATL	TVDKSASTAY	MELSSLRSED	TAVYYCTRSD
GRNDMDSWGQ	GTLVTVSSAS	TKGPSVFPLA	PSSKSTSGGT	AALGCLVKDY
FPEPVTVSWN	SGALTSGVHT	FPAVLQSSGL	YSLSSVVTVP	SSSLGTQTYI
CNVNHKPSNT	KVDKKVEPKS	CDKTHTCPPC	PAPELLGGPS	VFLFPPKPKD
TLNISRTPEV	TCVVVDVSHE	DPEVKFNWYV	DGVEVHNAKT	KPREEQYNST
YRVVSVLTVL	HQDWLNGKEY	KCKVSNKALP	APIEKTISKA	KGQPREPQVY
TLPPSRDELT	KNQVSLTCLV	KGFYPSTIAV	EWESNGQPEN	NYKTTTPVLD
SDGSFFLYSK	LTVDKSRWQQ	GNVFSCSVMH	EALHNHYTQK	SLSLSPGK

FIG. 1B

Heavy chain JB5 (SEQ ID NO: 9)

QVQLVQSGAE	VVKPGASVKL	SCKASGYIFT	SYMYWVKQA	PGQGLEWIGE
INPSNGDTNF	NEKFKSKATL	TVDKSASTAY	MELSSLRSED	TAVYYCTRSD
GRNDMDSWGQ	GTLVTVSSAS	TKGPSVFPLA	PSSKSTSGGT	AALGCLVKDY
FPEPVTVSWN	SGALTSGVHT	FPAVLQSSGL	YSLSSVVTVP	SSSLGTQTYI
CNVNHKPSNT	KVDKKVEPKS	SDKTHTSPPS	PAPELLGGSS	VFLFPPKPKD
TLNISRTPEV	TCVVVDVSHE	DPEVKFNWYV	DGVEVHNAKT	KPREEQYNST
YRVVSVLTVL	HQDWLNGKEY	KCKVSNKALP	APIEKTISKA	KGQPREPQVY
TLPPSRDELT	KNQVSLTCLV	KGFYPSTIAV	EWESNGQPEN	NYKTTTPVLD
SDGSFFLYSK	LTVDKSRWQQ	GNVFSCSVMH	EALHNHYTQK	SLSLSPGK

FIG. 1C

Heavy chain JB5-K74R (SEQ ID NO: 13)

QVQLVQSGAE	VVKPGASVKL	SCKASGYIFT	SYMYWVKQA	PGQGLEWIGE
INPSNGDTNF	NEKFKSKATL	TVDRSASTAY	MELSSLRSED	TAVYYCTRSD
GRNDMDSWGQ	GTLVTVSSAS	TKGPSVFPLA	PSSKSTSGGT	AALGCLVKDY
FPEPVTVSWN	SGALTSGVHT	FPAVLQSSGL	YSLSSVVTVP	SSSLGTQTYI
CNVNHKPSNT	KVDKKVEPKS	SDKTHTSPPS	PAPELLGGSS	VFLFPPKPKD
TLNISRTPEV	TCVVVDVSHE	DPEVKFNWYV	DGVEVHNAKT	KPREEQYNST
YRVVSVLTVL	HQDWLNGKEY	KCKVSNKALP	APIEKTISKA	KGQPREPQVY
TLPPSRDELT	KNQVSLTCLV	KGFYPSTIAV	EWESNGQPEN	NYKTTTPVLD
SDGSFFLYSK	LTVDKSRWQQ	GNVFSCSVMH	EALHNHYTQK	SLSLSPGK

FIG. 2A

Light Chain JB5 (SEQ ID NO: 7)

DIVLTQSPAT	LSVSPGERAT	ISCRASQRVS	SSTYSYMHWY	QQKPGQPPKL
LIKYASNLES	GVPARFSGSG	SGTDFTLTIS	SVEPEDFATY	YCQHSWEIPP
TFGGGTKLEI	KRTVAAPSVF	IFPPSDEQLK	SGTASVVCLL	NNFYPPREAKV
QWKVDNALQS	GNSQESVTEQ	DSKDSTYSL	STLTLSKADY	EKKHKVYACEV
THQGLSSPVT	KSFNRGEC			

FIG. 2B

Light Chain JB5-R28K (SEQ ID NO: 11)

DIVLTQSPAT	LSVSPGEKAT	ISCRASQ K VS	SSTYSYMHWY	QQKPGQPPKL
LIKYASNLES	GVPARFSGSG	SGTDFTLTIS	SVEPEDFATY	YCQHSWEIPP
TFGGGTKLEI	KRTVAAPSVF	IFPPSDEQLK	SGTASVVCLL	NNFYPPREAKV
QWKVDNALQS	GNSQESVTEQ	DSKDSTYSL	STLTLSKADY	EKKHKVYACEV
THQGLSSPVT	KSFNRGEC			

FIG. 2C

Fc region of hu5c8 (SEQ ID NO: 3)

EPKSCDKTHT	CPPCPAPELL	GGPSVFLFPP	KPKDTLMISR	TPEVTCVVVD
VSHEDPEVKF	NWYVDGVEVH	NAKTKPREEQ	YNSTYRVVSV	LTVLHQDWLN
GKEYKCKVSN	KALPAPIEKT	ISKAKGQPRE	PQVYTLPPSR	DELTKNQVSL
TCLVKGFYPS	DIAVEWESNG	QPENNYKTTT	PVLDSGDGSFF	LYSKLTVDKS
RWQQGNVFSC	SVMHEALHNH	YTQKSLSLSP	GK	

FIG. 2D

Fc region of JB5 (SEQ ID NO: 4)

EPK S DKTHT	S PP S PAPELL	GG S SVFLFPP	KPKDTLMISR	TPEVTCVVVD
VSHEDPEVKF	NWYVDGVEVH	NAKTKPREEQ	YNSTYRVVSV	LTVLHQDWLN
GKEYKCKVSN	KALPAPIEKT	ISKAKGQPRE	PQVYTLPPSR	DELTKNQVSL
TCLVKGFYPS	DIAVEWESNG	QPENNYKTTT	PVLDSGDGSFF	LYSKLTVDKS
RWQQGNVFSC	SVMHEALHNH	YTQKSLSLSP	GK	

FIG. 3

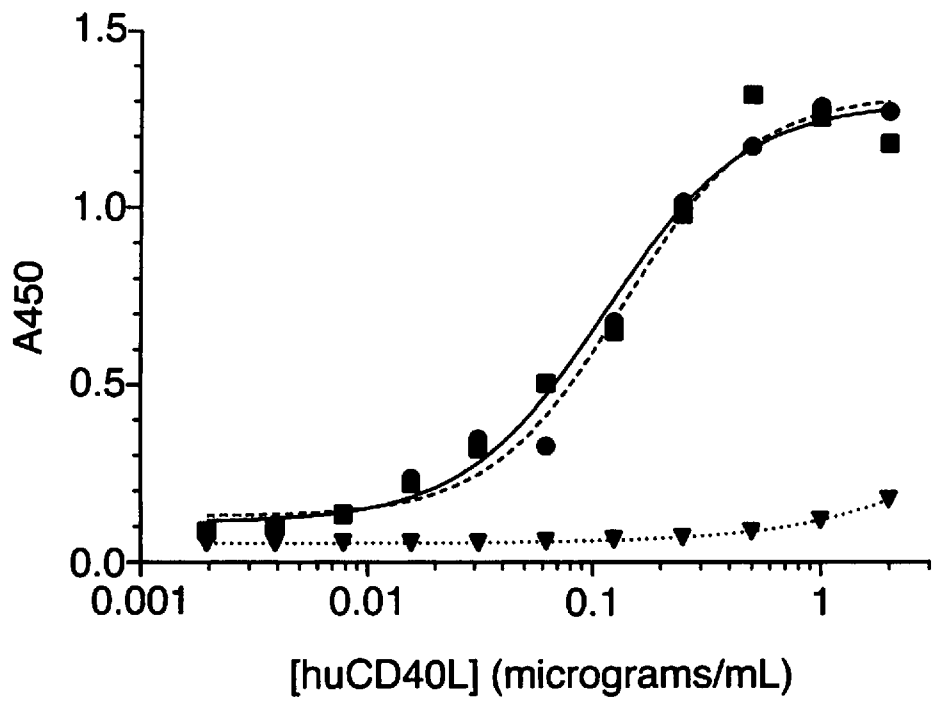


FIG. 4

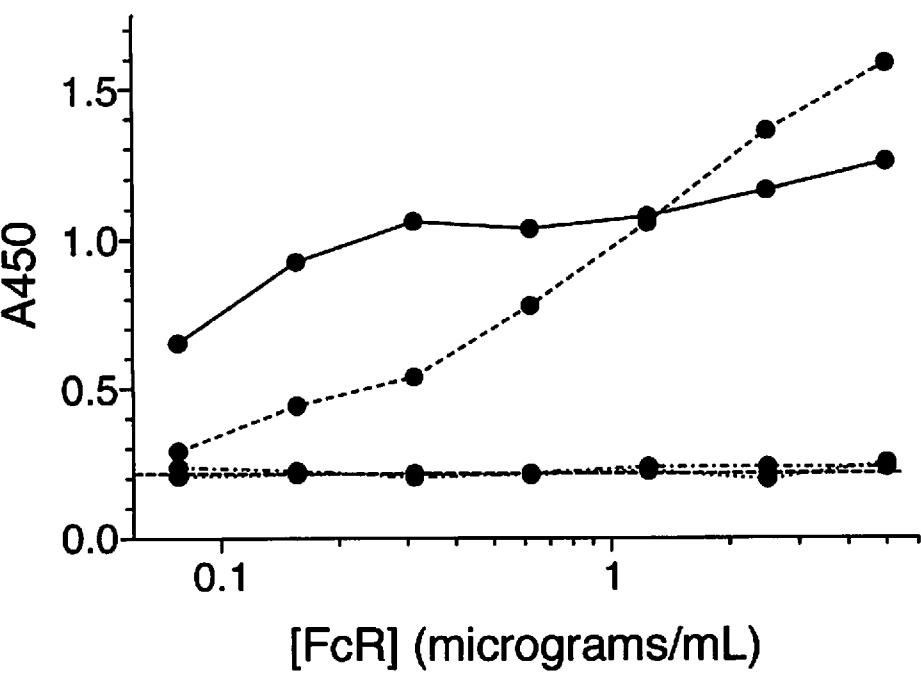
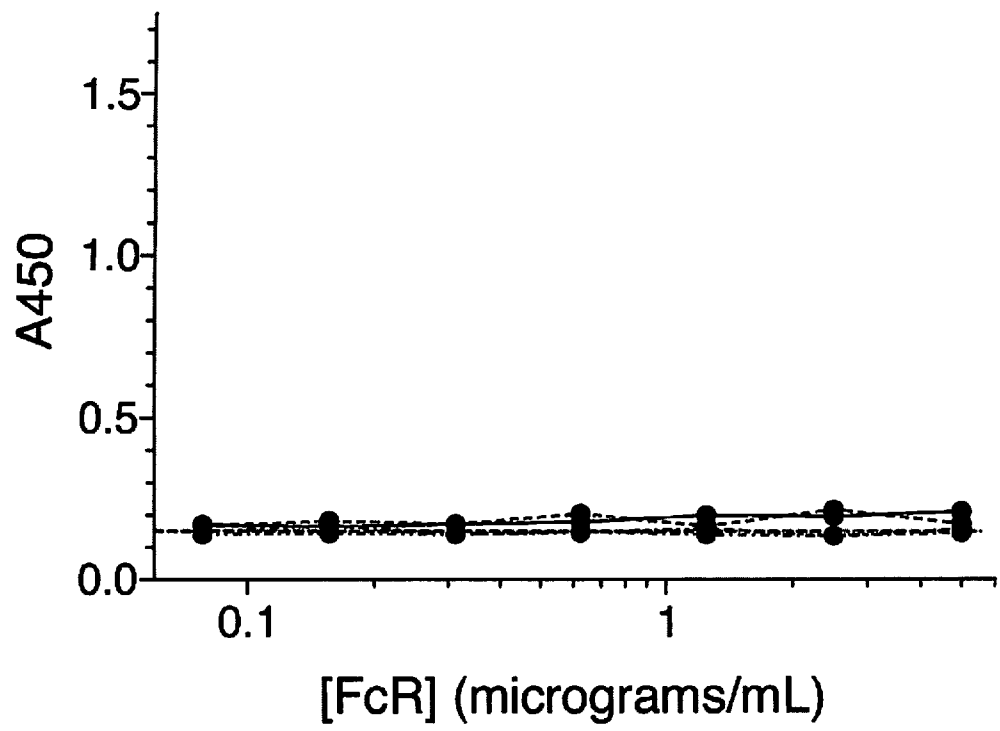


FIG. 5



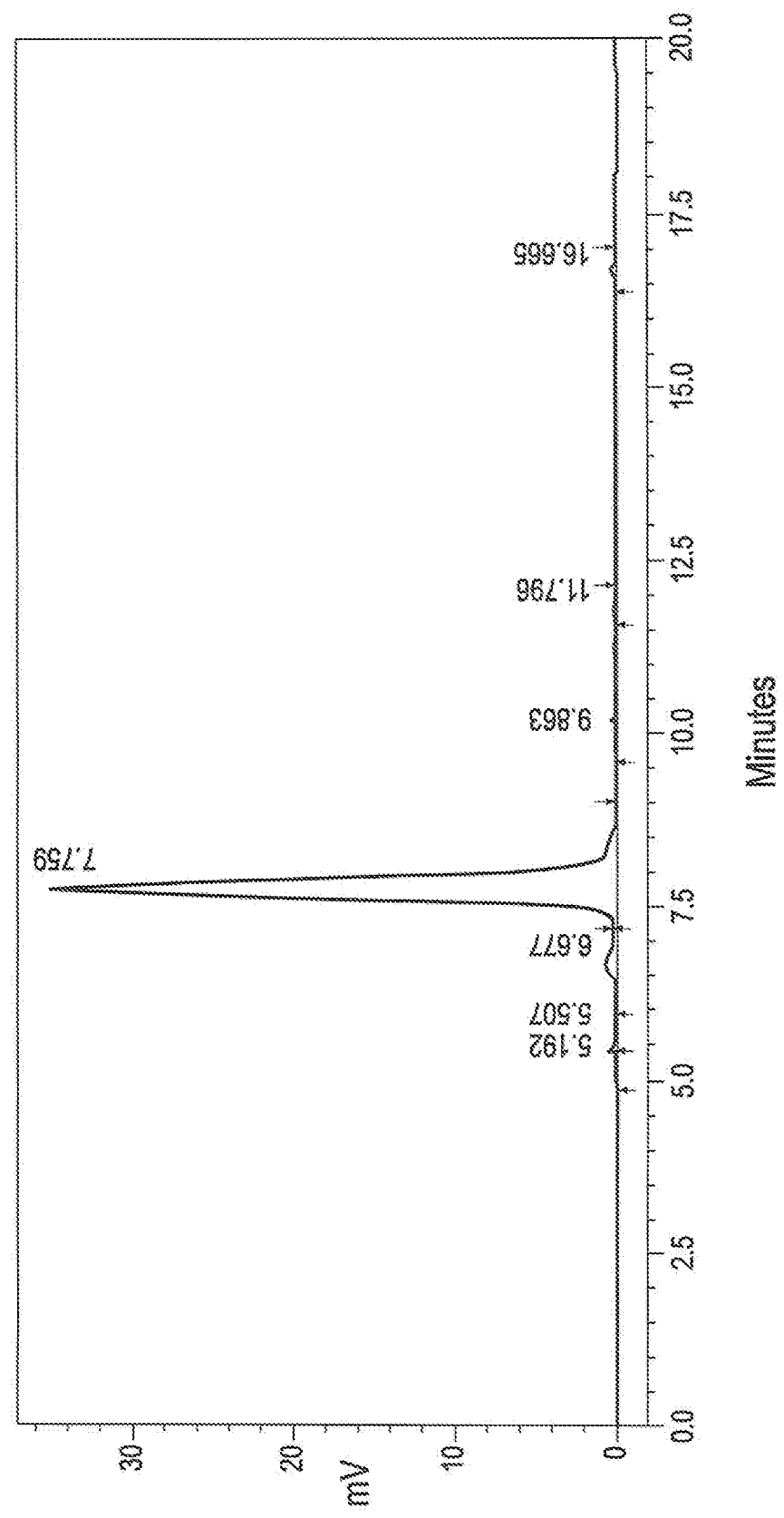


FIG. 6

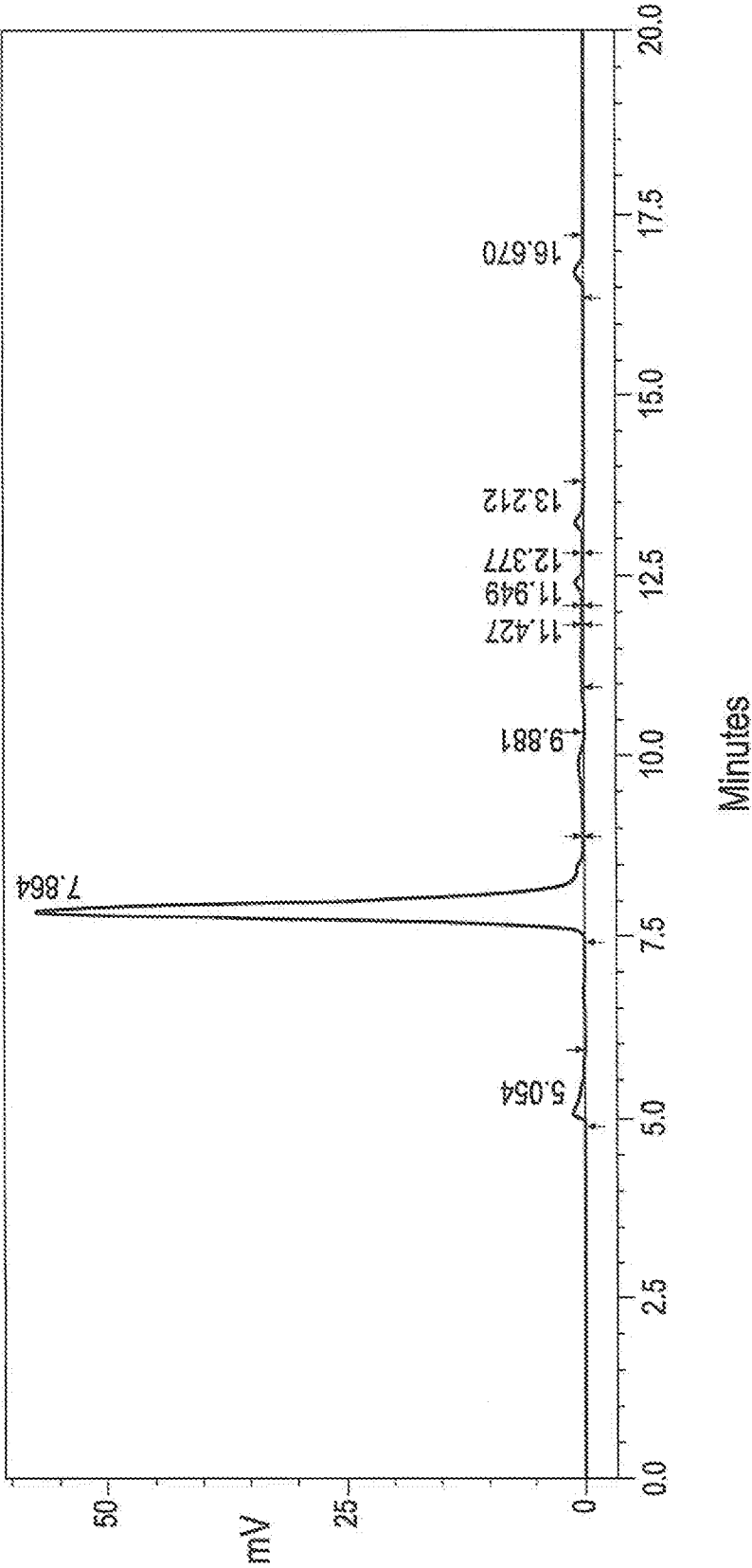
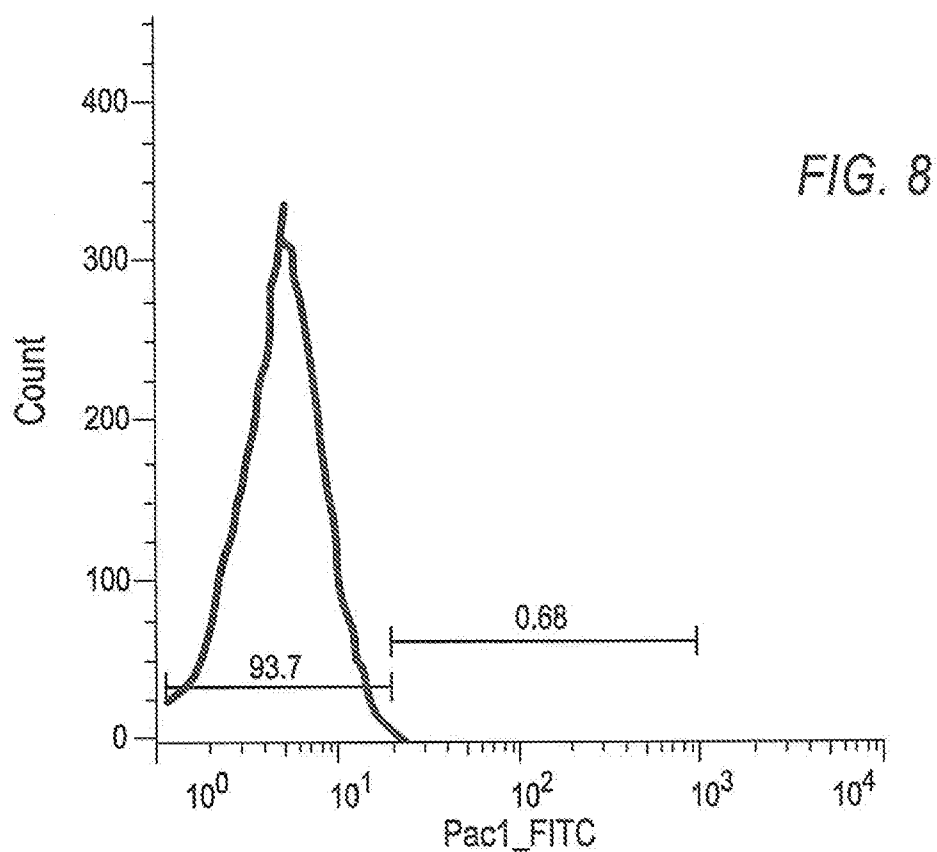
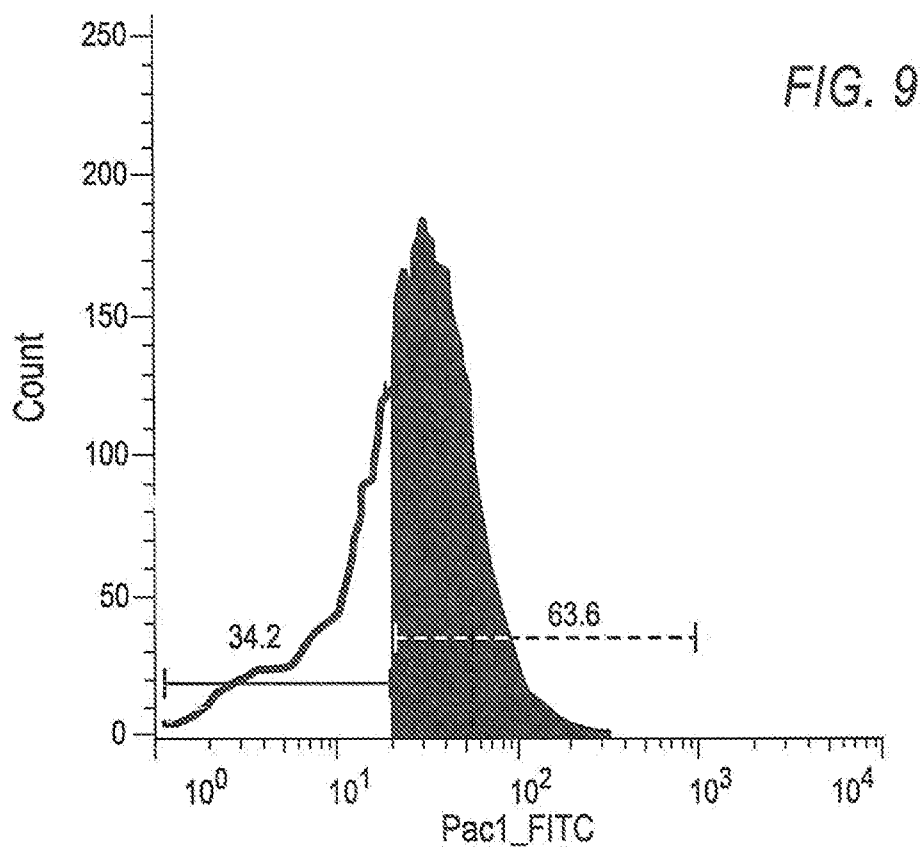
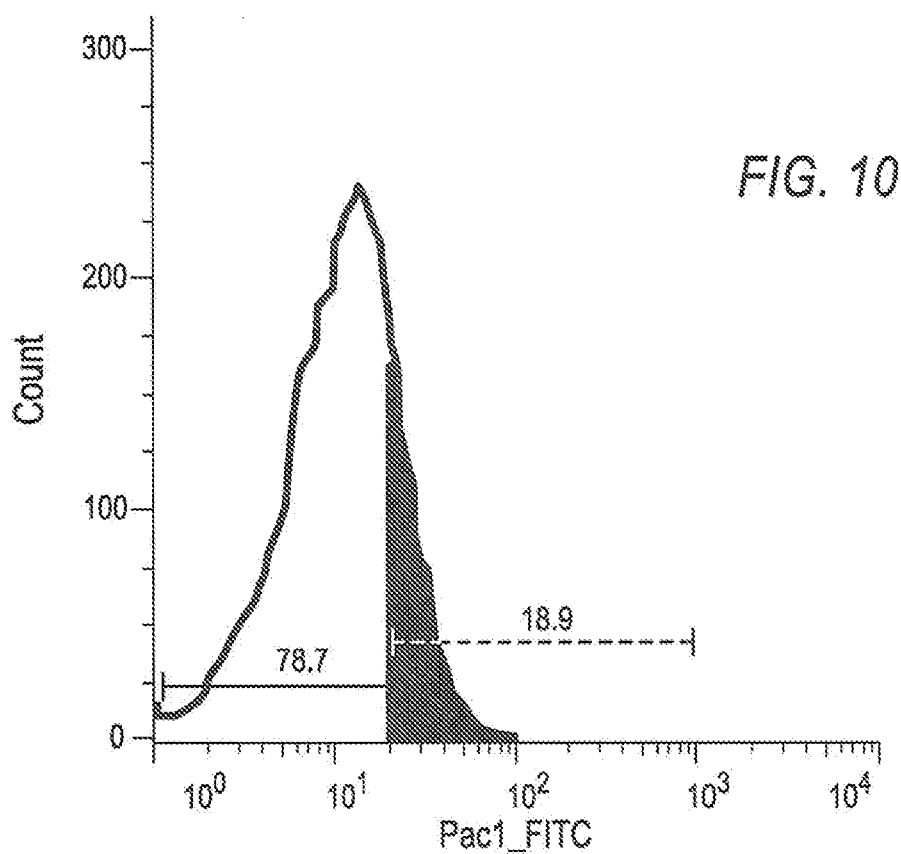
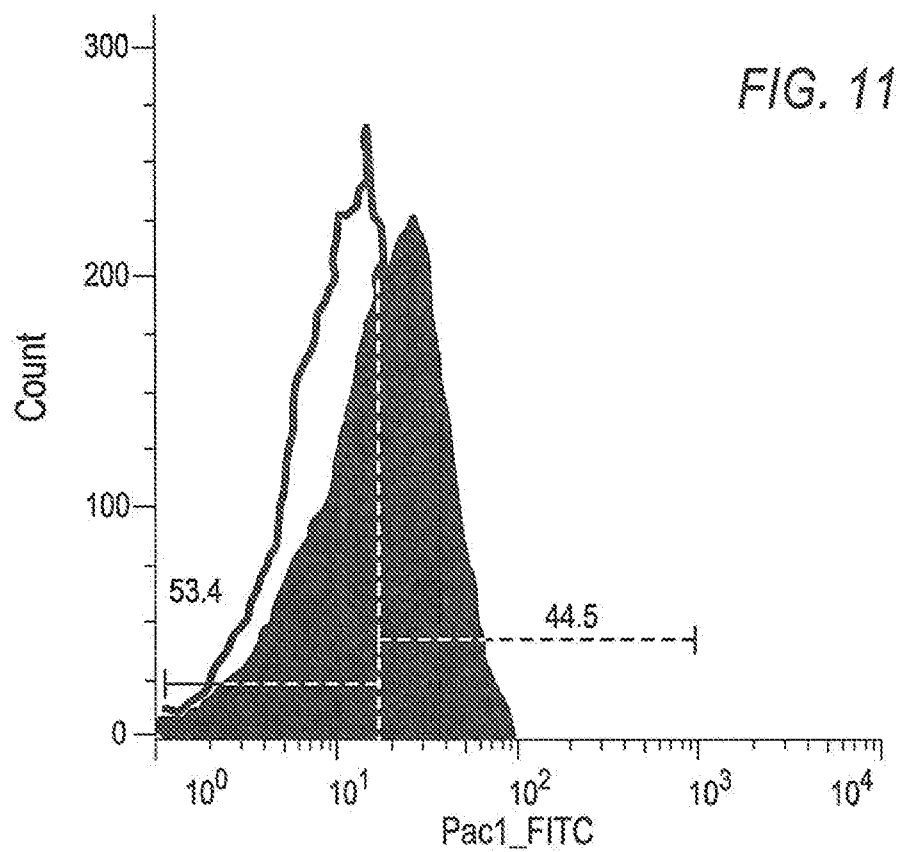


FIG. 7





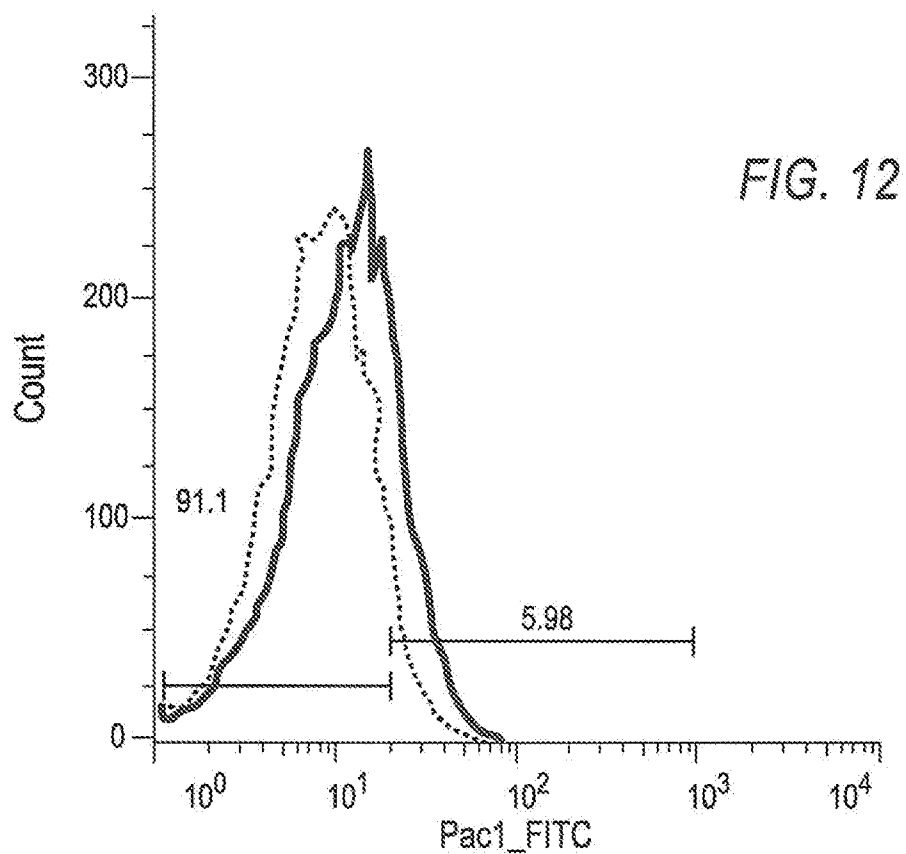
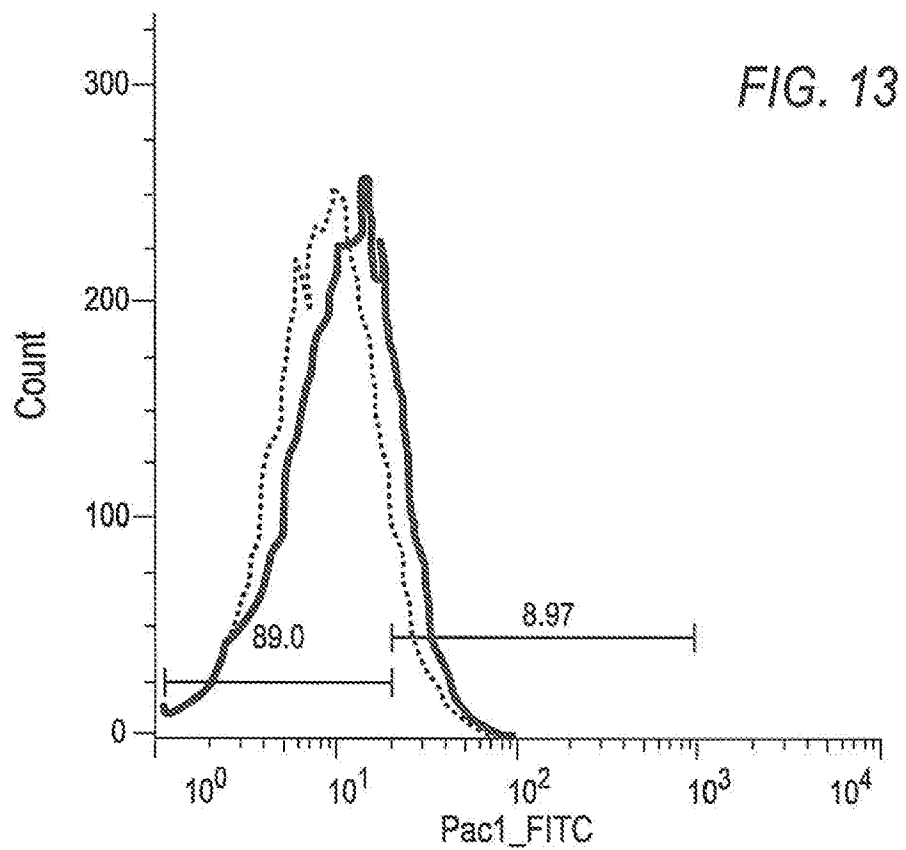


FIG. 14

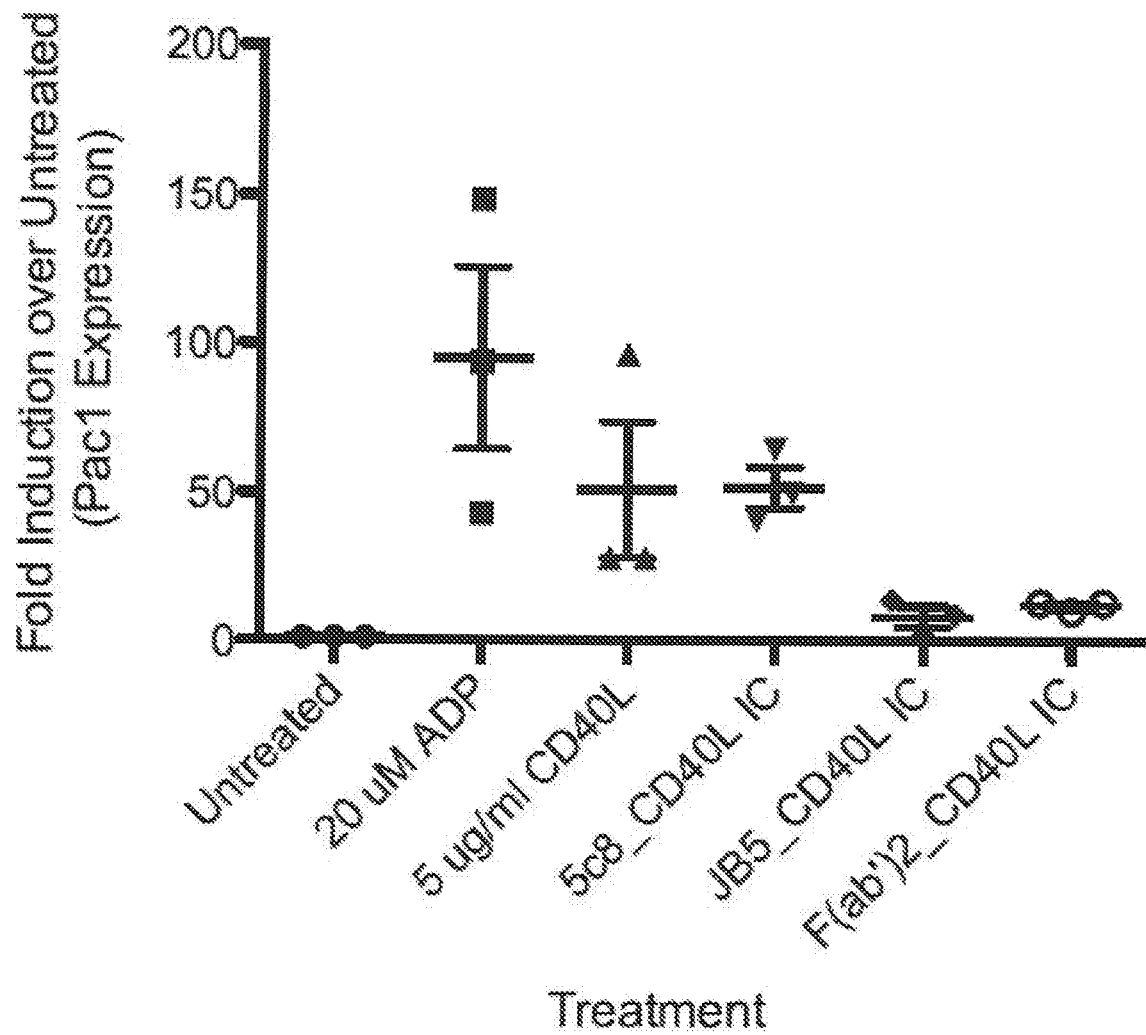


FIG. 15

SEQ ID NO:	Description	Sequence
1	hu5c8 and JB5 VL region	DIVLTQSPATLSVSPGERATISCRASQRVSSSTYSYMHWYQQKPGQPPKL LIKYASNLESGVPARFSGSGSGTDFTLTISSEVEDFATYYCQHSWEIPP TFGGGTKLEIK
2	hu5c8 and JB5 VH region	QVQLVQSGAEVVKPGASVKLSCKASGYIFTSYYMYWVKQAPGQGLEWIGE INPSNGDTNFNEKFKSKATLTVDKSASTAYMELSSLRSEDVAVYYCTRSD GRNDMDSWGQGTLVTVSS
3	Fc region	EPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVD VSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLN GKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSL TCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQQGNVFSQSVMEALHNHYTQKSLSLSPGK
4	JB5 Fc region	EPKSSDKTHTSPSPAPELLGGSSVFLFPPKPKDTLMISRTPEVTCVVVD VSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLN GKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSL TCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKS RWQQGNVFSQSVMEALHNHYTQKSLSLSPGK
5	JB5-R28K VL region	DIVLTQSPATLSVSPGERATISCRASQKVSSSTYSYMHWYQQKPGQPPKL LIKYASNLESGVPARFSGSGSGTDFTLTISSEVEDFATYYCQHSWEIPP TFGGGTKLEIK
6	JB5-K74R VH region	QVQLVQSGAEVVKPGASVKLSCKASGYIFTSYYMYWVKQAPGQGLEWIGE INPSNGDTNFNEKFKSKATLTVDKSASTAYMELSSLRSEDVAVYYCTRSD GRNDMDSWGQGTLVTVSS
7	JB5 light chain Amino acid sequence	DIVLTQSPATLSVSPGERATISCRASQRVSSSTYSYMHWYQQKPGQPPKL LIKYASNLESGVPARFSGSGSGTDFTLTISSEVEDFATYYCQHSWEIPP TFGGGTKLEIKRTVAAPSVFIFPPSDEQLKSGTASVCLLNNFYFPREAKV QWKVDNALQSGNSQESVTEQDSKDYSLSSLTLSKADYEKHKVYACEV THQGLSSPVTKSFNRGEC

FIG. 16

SEQ ID NO:	Description	Sequence
8	JB light chain nucleotide sequence	GACATCGTGCTGACCCAGTCCCCCGCCACCCTGTCCGTGTCCCCCGGCGA GAGGGCCACCATCTCCTGCAGGGCCTCCCAGAGGGTGTCTCTCCACCT ACTCCTACATGCACTGGTACCAGCAGAAGCCCGGCCAGCCCCCAAGCTG CTGATCAAGTACGCCTCCAACCTGGAGTCCGGCGTGCCCGCCAGGTTCTC CGGCTCCGGCTCCGGCACCGACTTCACCCTGACCATCTCCTCCGTGGAGC CCGAGGACTTCGCCACCTACTACTGCCAGCACTCCTGGGAGATCCCCCCC ACCTTCGGCGGGCGGCACCAAGCTGgaaatcaaaCGTACGGTGGCTGCACC ATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAAGT CCTCTGTTGTGTGCCTGCTGAATAACTTCTATCCAGAGAGGCCAAAGTA CAGTGGAAGGTGGATAACGCCCTCCAATCGGGTAACTCCAGGAGAGTGT CACAGAGCAGGACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCTGA CGCTGAGCAAAGCAGACTACGAGAAACACAAAGTCTACGCCTGCGAAGTC ACCCATCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGA GTGTTAGTGA
9	JB5 heavy chain amino acid sequence	QVQLVQSGAEVVKPGASVKLSCKASGYIFTSYYMYWVKQAPQGGLIEWIGE INPSNGDTNFKNEFKSKATLTVDKSASTAYMELSSLRSEDVAVYYCTRSD GRNDMDSWGQGTTLTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDY FPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYI CNVNHKPSNTKVDKKVEPKSSDKTHTSPSPAPELLGGSSVFLFPPKPKD TLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNST YRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVY TLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLD SDGSFFLYSKLTVDKSRWQQGNVFSQVMHEALHNHYTQKSLSLSPGK

FIG. 17

SEQ ID NO:	Description	Sequence
10	JB5 heavy chain nucleic acid sequence	CAGGTGCAGCTGGTGCAGTCCGGCGCCGAGGTGGTGAAGCCCGGCGCCTC CGTGAAGCTGTCCTGCAAGGCCTCCGGCTACATCTTCACCTCCTACTACA TGTAAGCTGGTGAAGCAGGCCCCCGGCCAGGGCCTGGAGTGGATCGGCGAG ATCAACCCCTCCAACGGCGACACCAACTTCAACGAGAAGTTCAAGTCCAA GGCCACCCTGACCGTGGACAAGTCCGCCTCCACCGCCTACATGGAGCTGT CCTCCCTGAGGTCCGAGGACACCGCCGTGTACTACTGCACCAGGTCCGAC GGCAGGAACGACATGGACTCCTGGGGCCAGGGCACCCCTGGTGACCGTGTG CTCCGCTAGCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCCCTCCTCCA AGAGCACCTCTGGGGGACAGCAGCCCTGGGCTGCCTGGTCAAGGACTAC TTCCCCGAACCGGTGACGGTGTCTGTGGAAGTCAAGGCGCCCTGACCAGCGG CGTGACACCTTCCCGGCTGTCTTACAGTCTCAGGACTCTACTCCCTCA GCAGCGTGGTGACCGTGCCTCCAGCAGCTTGGGCACCCAGACCTACATC TGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGGACAAGAAAGTTGg tgagaggccagcacagggagggaggggtgtctgtggaagccagggtcagc gctcctgcctggacgcatcccggctatgcagccccagtcaggggcagcaa ggcaggccccgtctgcctcttcacccggaggcctctgcccggccccactca tgctcaggagaggggtcttctgtgctttttccccaggctctgggcaggcac aggctaggtgcccctaaccaggccctgcacacaaaggggcagggtgtggtg gctcagacctgccaagagccatatccgggaggaccctgcccctgacctaa gcccaccccaaaggccaaactctccactccctcagctcggcaccttctc tcttcccagattccagtaactcccaatcttctctctgcagAGCCCAAATC TAGTGACAAAATCACACAAGCCCACCGAGCCCAGgtaagccagcccagg cctcgccctccagctcaaggcgggacaggtgccctagagtagcctgcac cagggaagggccccagccgggtgtgcacagctccacctccatctcttctc cagCACCTGAACTCCTGGGGGGATCCTCAGTCTTCTTCCCCCAAAA CCCAAGGACACCCTCATGATCTCCCGGACCCCTGAGGTACATGCGTGGT GGTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGGTACGTGG ACGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTAC AACAGCACGTACCGTGTGGTCAGCGTCTCACCCTCCTGCACCAGGACTG GCTGAATGGCAAGGAGTACAAGTGCAAGGTCTCCAACAAAGCCCTCCCAG CCCCATCGAGAAAACCATCTCCAAAGCCAAAGgtgggacccgtggggtg cgagggccacatggacagaggccgggtcggccccaccctctgcccgtgagag tgaccgtgtaccaacctctgtccctacagGGCAGCCCCGAGAACCACAG GTGTACACCCTGCCCCCATCCCGGGATGAGCTGACCAAGAACCAGGTGAG CCTGACCTGCCTGGTCAAAGGCTTCTATCCCAGCGACATCGCCGTGGAGT GGGAGAGCAATGGGCAGCCGAGAACTACAAGACCACGCCTCCCGTG CTGGACTCCGACGGCTCCTTCTTCTCTACAGCAAGCTCACCGTGGACAA GAGCAGGTGGCAGCAGGGGAACGTCTTCTCATGCTCCGTGATGCATGAGG CTCTGCACAACCACTACACACAGAAGAGCCTCTCCCTGTCTCCGGGTAAA taatga

FIG. 18

SEQ ID NO:	Description	Sequence
11	JB5-R28K light chain amino acid sequence	DIVLTQSPATLSVSPGERATISCRASQKVSSSTYSYMHWYQQKPGQPPKL LIKYASNLESGVPARFSGSGSTDFTLTISSVEPEDFATYYCQHSWEIPP TFGGGTKLEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKV QWKVDNALQSGNSQESVTEQDSKSTYLSSTLTLSKADYEKHKVYACEV THQGLSSPVTKSFNRGEC
12	JB5-R28K light chain nucleic acid sequence	GACATCGTGCTGACCCAGTCCCCCGCCACCCTGTCCGTGTCCCCCGGCGA GAGGGCCACCATCTCCTGCAGGGCCTCCCAAGAGGTGTCCTCCTCCACCT ACTCCTACATGCACTGGTACCAGCAGAAGCCCGGCCAGCCCCCAAGCTG CTGATCAAGTACGCCTCCAACCTGGAGTCCGGCGTGCCCGCCAGGTTCTC CGGCTCCGGCTCCGGCACCGACTTCACCTGACCATCTCCTCCGTGGAGC CCGAGGACTTCGCCACCTACTACTGCCAGCACTCCTGGGAGATCCCCCCC ACCTTCGGCGGCGGCACCAAGCTGgaaatcaaaCGTACGGTGGCTGCACC ATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAAGT CCTCTGTTGTGTGCCTGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTA CAGTGGAAGGTGGATAACGCCCTCCAATCGGGTAACTCCCAGGAGAGTGT CACAGAGCAGGACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCTGA CGCTGAGCAAAGCAGACTACGAGAAACACAAAGTCTACGCCTGCGAAGTC ACCCATCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGA GTGTTAGTGA
13	JB5-K74R heavy chain amino acid	QVQLVQSGAEVVKPGASVKLSCKASGYIFTSYYMYWVKQAPGQGLEWIGE INPSNGDTNFKNEKFKSKATLTVDRSASTAYMELSSLRSEDVAVYYCTRSD GRNDMDSWGQGLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDY FPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYI CNVNHKPSNTKVDKKVEPKSSDKTHTSPSPAPELLGGSSVFLFPPKPKD TLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNST YRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVY TLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLD SDGSFFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK

FIG. 19

SEQ ID NO:	Description	Sequence
14	JB5-K74R heavy chain nucleic acid sequence	CAGGTGCAGCTGGTGCAGTCCGGCGCCGAGGTGGTGAAGCCCGGCGCCTC CGTGAAGCTGTCTTGCAAGGCCTCCGGCTACATCTTCACCTCCTACTACA TGTAAGTGGGTGAAGCAGGCCCCCGGCCAGGGCCTGGAGTGGATCGGCGAG ATCAACCCCTCCAACGGCGACACCAACTTCAACGAGAAGTTCAAGTCCAA GGCCACCCTGACCGTGGACAGGTCCGCCTCCACCGCCTACATGGAGCTGT CCTCCCTGAGGTCCGAGGACACCGCCGTGTACTACTGCACCAGGTCCGAC GGCAGGAACGACATGGACTCCTGGGGCCAGGGCACCCTGGTGACCGTGTCT CTCCGCTAGCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCCCTCCTCCA AGAGCACCTCTGGGGGACAGCAGCCCTGGGCTGCCTGGTCAAGGACTAC TTCCCCGAACCGGTGACGGTGTCTGTGGAACCTCAGGCGCCCTGACCAGCGG CGTGCACACCTTCCCGGCTGTCTTACAGTCTCAGGACTCTACTCCCTCA GCAGCGTGGTGACCGTGCCTTCCAGCAGCTTGGGCACCCAGACCTACATC TGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGGACAAGAAAGTTGg tgagaggccagcacagggagggaggggtgtctgtctggaagccaggctcagc gctcctgcctggacgcatcccggctatgcagccccagtcaggggcagcaa ggcaggccccgtctgcctcttcacccggaggcctctgcccggccccactca tgctcaggagaggggtcttctgtgctttttccccaggctctgggcaggcac aggctaggtgcccctaaccaggccctgcacacaaaggggcagggtgtggtg gctcagacctgccaagagccatacccgggaggaccctgcccctgacctaa gccccacccaaaggccaaactctccactccctcagctcggacaccttctc tcctcccagattccagtaactcccaatcttctctctgcagAGCCCAAATC TAGTGACAAAATCACACAAGCCCACCGAGCCCAGGtaagccagcccagg cctcgccctccagctcaaggcgaggacaggtgcccctagagtagcctgcatac cagggaacaggccccagccgggtgtctgacacgtccacctccatctcttctc cagCACCTGAACTCCTGGGGGGATCCTCAGTCTTCTCTTCCCCCAAAA CCCAAGGACACCCTCATGATCTCCCGGACCCCTGAGGTACATGCGTGGT GGTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGGTACGTGG ACGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTAC AACAGCACGTACCGTGTGGTCAGCGTCTCACCCTCCTGCACCAGGACTG GCTGAATGGCAAGGAGTACAAGTGCAAGGTCTCCAACAAAGCCCTCCCAG CCCCATCGAGAAAACCATCTCCAAGCCAAAGgtgggacccgtggggtg cgagggccacatggacagaggccgggtcggccccacctctgcccctgagag tgaccgtgtaccaacctctgtccctacagGGCAGCCCCGAGAACCACAG GTGTACACCCTGCCCCCATCCCGGGATGAGCTGACCAAGAACCAGGTGAG CCTGACCTGCCTGGTCAAAGGCTTCTATCCCAGCGACATCGCCGTGGAGT GGGAGAGCAATGGGCAGCCGGAGAACAACTACAAGACCACGCCTCCCGTG CTGGACTCCGACGGCTCCTTCTTCTCTACAGCAAGCTCACCGTGGACAA GAGCAGGTGGCAGCAGGGGAACGTCTTCTCATGCTCCGTGATGCATGAGG CTCTGCACAACCACTACACACAGAAGAGCCTCTCCCTGTCTCCGGGTAAA taatga

FIG. 20

SEQ ID NO:	Description	Sequence
15	JB5 CDR-L1	ISCRASQRVSSSTYSYMH
16	JB5 CDR-L2	YASNLES
17	JB5 CDR-L3	QHSWEIPPT
18	JB5 CDR-H1	SYMY
19	JB5 CDR-H2	EINPSNGDTNFNEKFKS
20	JB5 CDR-H3	SDGRNDMDS
21	Hu5c8 Heavy Chain	QVQLVQSGAEVVKPGASVKLSCKASGYIFTSYYMYWVKQAPGQGLEWIG EINPSNGDTNFNEKFKSKATLTVDKSASTAYMELSSLRSED TAVYYCTR SDGRNDMDSWGQGT LVT VSSASTKGPSVFPLAPSSKSTSGGTAALGCLV KDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLGT QTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFP PKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPRE EQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQ PREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNY KTTTPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCSV MHEALHNHYTQKS LSLSPGK