

[Figure 1]

SEQ ID No: 1 - Amino acid sequence of the heavy chain of
an anti-HER2 antibody

EVQLVESGGGLVQPGGSLRLSCAASGFNISKDTYIHWVR
QAPGKGLEWVARIYPTNGYTRYADSVKGRFTISADTSK
NTAYLQMNSLRAEDTAVYYCSRWGGDGFYAMDYWGQGT
LVTVSSASTKGPSVFPLAPSSKSTSGGTAAALGCLVKDY
FPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVT
VPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHT
CPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVV
VDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYR
VVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKA
KGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDI
AVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKS
RWQQGNVFSCSVMEALHNHYTQKSLSLSPGK

[Figure 2]

SEQ ID No: 2 - Amino acid sequence of the light chain of
an anti-HER2 antibody

DIQMTQSPSSLSASVGDRVITCRASQDVNTAVAWYQQ
KPGKAPKLLIYSASFLLYSGVPSRFSGSRSGTDFTLTIS
SLQPEDFATYYCQQHYTTPPTFGQGTKVEIKRTVAAPS
VFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDN
ALQSGNSQESVTEQDSKDYSLSSSTLTLSKADYEKHK
VYACEVTHQGLSSPVTKSFNRGEC

[Figure 3]

SEQ ID No: 3 - Amino acid sequence of the heavy chain of
an anti-HER3 antibody

QVQLQQWGAGLLKPSETLSLTCAVYGGSFSGYYWSWIR
QPPGKGLEWIGEINHSGSTNYPNPSLKSRVTISVETSKN
QFSLKLSSVTAADTAVYYCARDKWTWYFDLWGRGTLVT
VSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPE
PVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTGPS
SSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPP
CPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDV
SHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVS
VLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQ
PREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVE
WESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQ
QGNVFSCSVMHEALHNHYTQKSLSLSPGK

[Figure 4]

SEQ ID No: 4 - Amino acid sequence of the light chain of
an anti-HER3 antibody

DIEMTQSPDSLAVSLGERATINCRSSQSVLYSSSNRNY
LAWYQQNPGQPPKLLIYWASTRESGVDPDRFSGSGSGTD
FTLTITSSSLQAEDVAVYYCQQYYSTPRTFGQGTKVEIKR
TVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKV
QWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKA
DYEKHKVYACEVTHQGLSSPVTKSFNRGEC

[Figure 5]

SEQ ID No: 5 - Amino acid sequence of the heavy chain of an anti-TROP2 antibody

MKHLWFFLLLVAAAPRWVLSQVQLVQSGAEVKKPGASVK
VSCKASGYTFTTAGMQWVRQAPGQGLEWMGWINTHSGV
PKYAEDFKGRVTISADTSTSTAYLQLSSLKSEDTAVYY
CARSGFGSSYWYFDVWGGTTLVTVSSASTKGPSVFPLA
PSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGV
HTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHK
PSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVFLF
PPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDG
VEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEY
KCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREE
MTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTP
PVLDSGDSFFLYSKLTVDKSRWQQGNVFSQSV MHEALH
NHYTQKSLSLSPGK

Signal sequence (1-19), Variable region (20-140),
Constant region (141-470)

[Figure 6]

SEQ ID No: 6 - Amino acid sequence of the light chain of an anti-TROP2 antibody

MVLQTQVFISLLLLWISGAYGDIQMTQSPSSLSASVGDR
VTITCKASQDVSTAVAWYQQKPGKAPKLLIYSASYRYT
GVPSRFRSGSGSGTDFTLTISSLQPEDFAVYYCQQHYIT
PLTFGQGTKLEIKRTVAAPSVFIFPPSDEQLKSGTASV
VCLLNNFYFPREAKVQWKVDNALQSGNSQESVTEQDSKD
STYSLSSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKS
FNRGEC

Signal sequence (1-20), Variable region (21-129),
Constant region (130-234)

[Figure 7]

SEQ ID No: 7 - Amino acid sequence of the heavy chain of an anti-B7-H3 antibody

MKHLWFFLLLVAAAPRWVLSQVQLVQSGAEVKKPGSSVK
VSCKASGYTFTNYVMHWVRQAPGQGLEWMGYINPYNDD
VKYNEKFKGRVTITADESTSTAYMELSSLRSEDTAVYY
CARWGYYGSPLYFFDYWGQGTLLVTVSSASTKGPSVFPL
APSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSG
VHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNH
KPSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVFL
FPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVD
GVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKE
YKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRE
EMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTT
PPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQCSVMHEAL
HNHYTQKSLSLSPGK

Signal sequence (1-19), Variable region (20-141),
Constant region (142-471)

[Figure 8]

SEQ ID No: 8 - Amino acid sequence of the light chain of an anti-B7-H3 antibody

MVLQQTQVFISLLLWISGAYGEIVLTQSPATLSLSPGER
ATLSCRASSRLIYMHYQQKPGQAPRPLIYATSNLASG
IPARFSGSGSGTDFTLTISILEPEDFAVYYCQQWNSNP
PTFGGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVV
CLLNNFYPPREAKVQWKVDNALQSGNSQESVTEQDSKDS
TYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSF
NRGEC

Signal sequence (1-20), Variable region (21-128),
Constant region (129-233)

[Figure 9]

SEQ ID NO: 9 - Amino acid sequence of the heavy chain of an anti-GPR20 antibody

MKHLWFFLLLVAAAPRWVLSEVQLVQSGAEVKKPGASVK
VSCKASGYTFTSYYISWIRQAPGQGLKYMGFINPGSGH
TNYNEKFKGRVTITADKSSSTATMELSSLRSEDTAVYY
CARGAGGFLRIITKFDYWQQGTLVTVSSASTKGPSVFP
LAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTS
GVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVN
HKPSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVF
LFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYV
DGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGK
EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSR
EEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKT
TPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQCSVMHEA
LHNHYTQKSLSLSPGK

Signal sequence (1-19), Variable region (20-142),

Constant region (143-472)

[Figure 10]

SEQ ID NO: 10 - Amino acid sequence of the light chain of an anti-GPR20 antibody

MVLQTQVFISLLWISGAYGDTQLTQSPSSLSASVGDR
VTITCRASKSVSTYIHWYQQKPGKQPKLLIYSAGNLES
GVPSRFSGSGSGTDFTLTISSLQPEDFANYCYQQINEL
PYTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASV
VCLLNNFYFPREAKVQWKVDNALQSGNSQESVTEQDSKD
STYLSLSTLTLSKADYEKHKVYACEVTHQGLSSPVTKS
FNRGEC

Signal sequence (1-20), Variable region (21-129),

Constant region (130-234)

[Figure 11]

SEQ ID NO: 11 - Amino acid sequence of the heavy chain of an anti-CDH6 antibody

MKHLWFFLLLVAA PRWVLSEVQLVQSGAEVKKPGASVK
VSCKASGYTFTRNFMHWVRQAPGQGLEWMGWIYPGDGE
TEYAQKFQGRVTITADTSTSTAYMELSSLRSEDTAVYY
CARGVYGGFAGGYFDFWQGGLVTVSSASTKGPSVFPL
APSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSG
VHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNH
KPSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVFL
FPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVD
GVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKE
YKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRE
EMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTT
PPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCSVMHEAL
HNHYTQKSLSLSPGK

Signal sequence (1-19), Variable region (20-141),
Constant region (142-471)

[Figure 12]

SEQ ID NO: 12 - Amino acid sequence of the light chain of an anti-CDH6 antibody

MVLQTQVFISLLLWISGAYGDIQMTQSPSSLSASVGDR
VTITCKASQNIYKNLAWYQQKPGKAPKLLIYDANTLQT
GVPSRFSGSGSGSDFTLTISSLQPEDFATYFCQQYYSG
WAFGGGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVV
CLLNNFYPPREAKVQWKVDNALQSGNSQESVTEQDSKDS
TYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSF
NRGEC

Signal sequence (1-20), Variable region (21-128),
Constant region (129-233)

[Figure 13]

SEQ ID NO: 13 - Amino acid sequence of the heavy chain of an anti-MUC1 antibody (N54Q)

EVQLVESGGGLVQPGGSMRLSCVASGFPPFSNYWMNWVRQAPGKGLEWVGEIRLKSNO
YTHYAESVKGRFTISRDDSKNSLYLQMNSLKTEDTAVYYCTRHYFDYWGGTLVT
VSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPP
AVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCTPP
CPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVH
NAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQ
PREPQVYITLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLD
SDGSFFLYSKLTVDKSRWQQGNVVFSCSVMEGLHNHYTQKSLSLSPGK

variable region: aa 1-117, constant region: aa 118-447

[Figure 14]

SEQ ID NO: 14 - Amino acid sequence of the heavy chain of an anti-MUC1 antibody (PankoMab)

EVQLVESGGGLVQPGGSMRLSCVASGFPPFSNYWMNWVRQAPGKGLEWVGEIRLKSNN
YTHYAESVKGRFTISRDDSKNSLYLQMNSLKTEDTAVYYCTRHYFDYWGGTLVT
VSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPP
AVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCTPP
CPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVH
NAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQ
PREPQVYITLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLD
SDGSFFLYSKLTVDKSRWQQGNVVFSCSVMEGLHNHYTQKSLSLSPGK

variable region: aa 1-117, constant region: aa 118-447

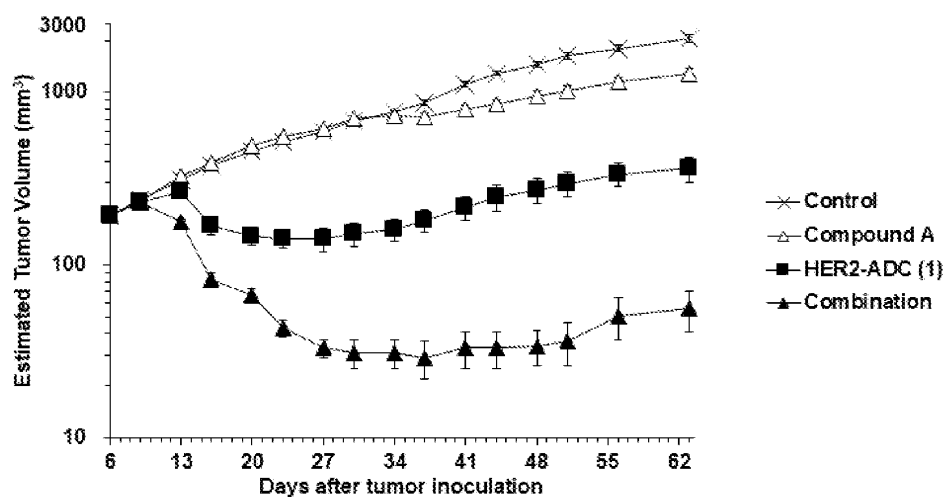
[Figure 15]

SEQ ID NO: 15 - Amino acid sequence of the light chain of an anti-MUC1 antibodies (N54Q and PankoMab)

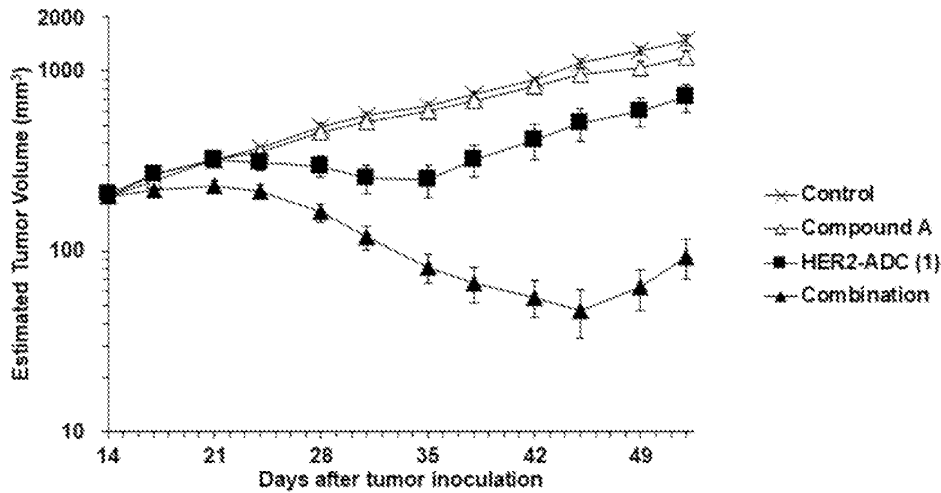
DIVMTQSPLSNPVTPGEPASISCRSSKSLHNSGITYFFWYLQKPGQSPQLLIYQMS
 NLAGVVPDRFSGSGSGTDFTLRISRVEAEDVGVYYCAQNLELPPTFGQGTKVEIKRT
 VAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQ
 DSKDSTYLSSTLTLSKADYEKHKVYACEVTHQGLSPVTKSFNRGEC

variable region: aa 1-113, constant region: aa 114-219

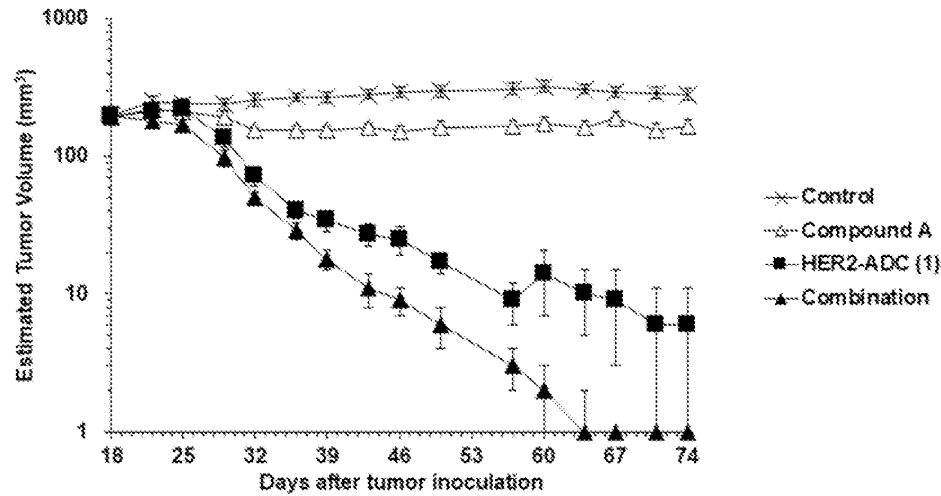
[Figure 16]



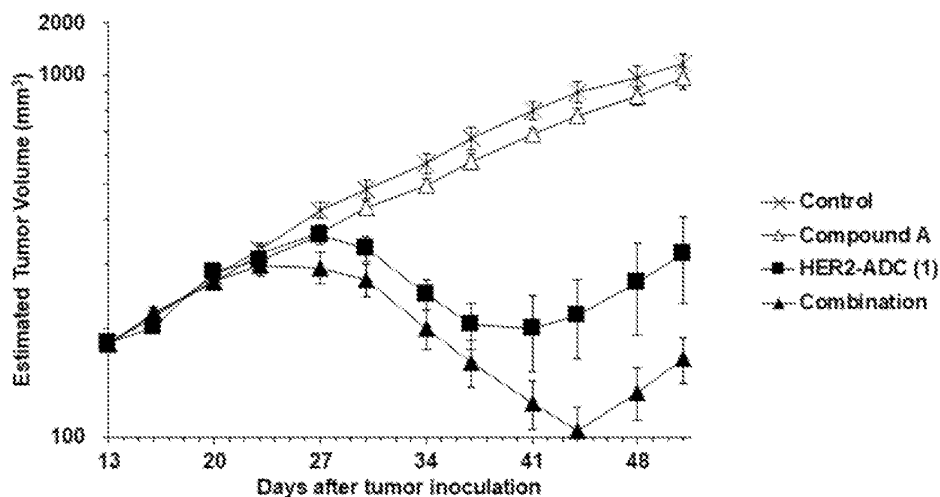
[Figure 17]



[Figure 18]



[Figure 19]



[Figure 20]

SEQ ID NO: 16 - Amino acid sequence of the heavy chain of an anti-CD37 antibody (hmAb-H541)

MKHLWFFLLLVAAAPRWVLSEVQLVQSGAEVKKPGASVKVSCKASGYSFTDYNMYWVR
 QAPGQSLEWMGYIDPYNGDTTYNQKFQGRVTMTRDTSISTAYMELSRLSDDTAVYY
 CARSPYGHYAMDYWGQGTTTVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYF
 PEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPS
 NTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVTV
 DVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKC
 KVSNAKALPAIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIA
 VEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNH
 YTQKSLSLSPGK

Signal sequence (1-19), Variable region (20-138),

Constant region (139-468)

[Figure 21]

SEQ ID NO: 17 - Amino acid sequence of the heavy chain of an anti-CD37 antibody (hmAb-H551)

MKHLWFFLLLVAAAPRWVLSEVQLVQSGAEVKKPGASVKVSCKASGYSTFDYNYWVR
QAPGQSLEWMGYIDPYNGDTTYNQKFQGRVTMTRDTSSSTAYMELSRSDDTAVYY
CARSPYGHYAMDYWGQGTTVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYF
PEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPS
NTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVV
DVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKC
KVSNAKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIA
VEWESNGQPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNH
YTQKSLSLSPGK

Signal sequence (1-19), Variable region (20-138),
Constant region (139-468)

[Figure 22]

SEQ ID NO: 18 - Amino acid sequence of the heavy chain of an anti-CD37 antibody (hmAb-H11a)

MKHLWFFLLLVAAAPRWVLSEVQLVQSGAEVKKPGASVKVSCKASGYSTFDYNYWVR
QAPGQSLEWMGYIDPYNGDTTYNQKFQGRVTITADKSKSTAYMELSSLRSEDTAVYY
CARSPYGHYAMDYWGQGTTLTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYF
PEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPS
NTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVV
DVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKC
KVSNAKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIA
VEWESNGQPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNH
YTQKSLSLSPGK

Signal sequence (1-19), Variable region (20-138),
Constant region (139-468)

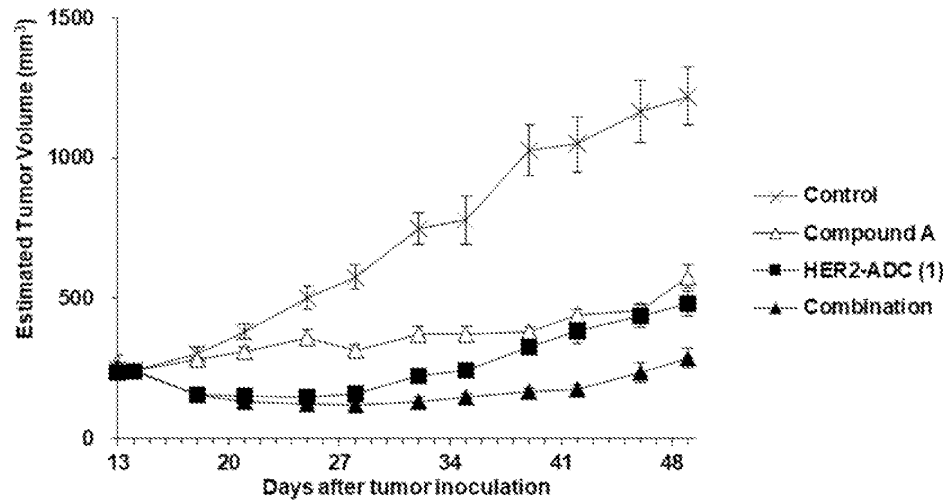
[Figure 23]

SEQ ID NO: 19 - Amino acid sequence of the light chain of
an anti-CD37 antibody (hmAb-L11)

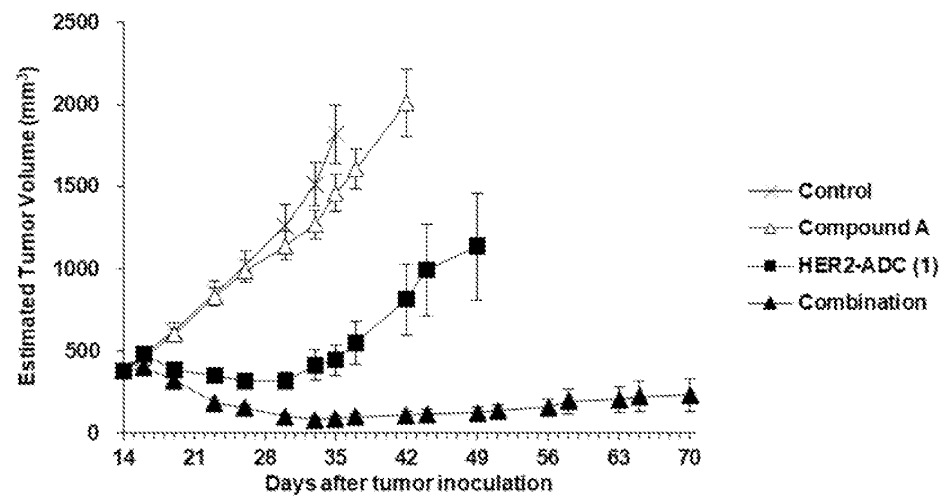
MVLQTQVFISLLLWISGAYGDIQMTQSPSSLSASVGDRVTITCKASQDVSTAVDWYQ
QKPGKAPKLLINWASTRHTGVPSRFSGSGSGTDFTLTISLQPEDFATYYCRQHYST
PFTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVD
NALQSGNSQESVTEQDSKDYSLSSLTLSKADYEKHKVYACEVTHQGLSPVTKS
FNRGEC

Signal sequence (1-20), Variable region (21-128),
Constant region (129-234)

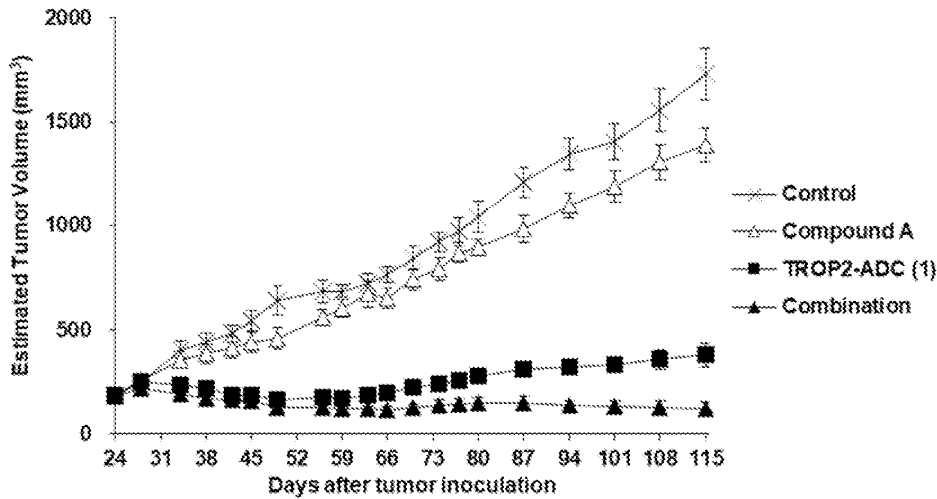
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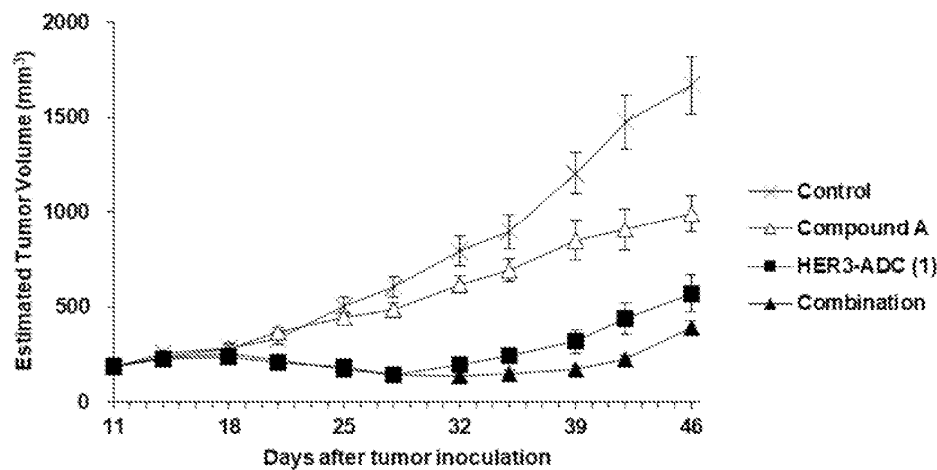
[Figure 25]



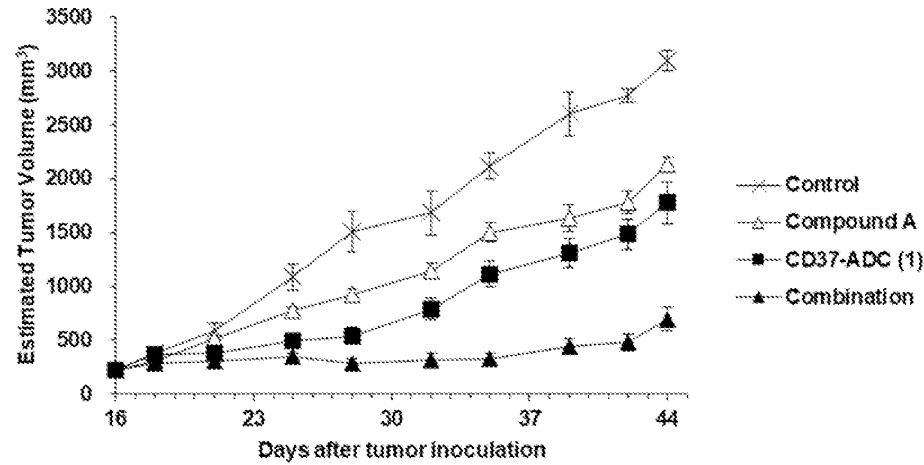
[Figure 26]



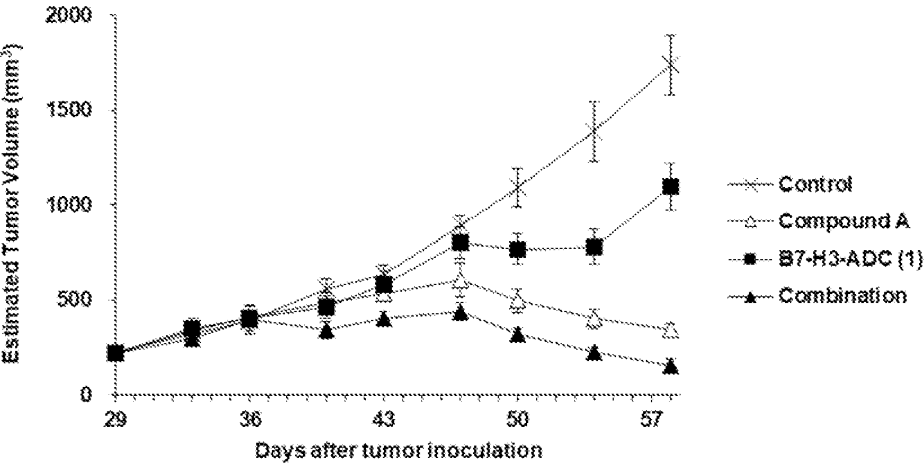
[Figure 27]



[Figure 28]



[Figure 29]



[Figure 30]

SEQ ID NO: 20 - Amino acid sequence of the CDRH1 of heavy chain of anti-HER2 antibody
GFNIKDTY

[Figure 31]

SEQ ID NO: 21 - Amino acid sequence of the CDRH2 of heavy chain of anti-HER2 antibody
IYPTNGYT

[Figure 32]

SEQ ID NO: 22 - Amino acid sequence of the CDRH3 of heavy chain of anti-HER2 antibody
SRWGGDGFYAMDY

[Figure 33]

SEQ ID NO: 23 - Amino acid sequence of the CDRL1 of light chain of anti-HER2 antibody
QDVNTA

[Figure 34]

SEQ ID NO: 24 - Amino acid sequence of the CDRL2 of light chain of anti-HER2 antibody
SAS

[Figure 35]

SEQ ID NO: 25 - Amino acid sequence of the CDRL3 of light chain of anti-HER2 antibody

QQHYTTPPT

[Figure 36]

SEQ ID NO: 26 - Amino acid sequence of the heavy chain variable region of anti-HER2 antibody

EVQLVESGGGLVQPGGSLRLSCAASGFNIKDTYIHWVRQAPGKGLEWVARIYPTNGY
TRYADSVKGRFTISADTSKNTAYLQMNSLRAEDTAVYYCSRWGGDGFYAMDYWGQGT
LVTVSS

[Figure 37]

SEQ ID NO: 27 - Amino acid sequence of the light chain variable region of anti-HER2 antibody

DIQMTQSPSSLSASVGDRVTITCRASQDVNTAVAWYQQKPGKAPKLLIYSASFLYSG
VPSRFSGSRSGTDFTLTISSLQPEDFATYYCQQHYTTPPTFGQGTKVEIK

[Figure 38]

SEQ ID NO: 28 - Amino acid sequence of the CDRH1 of heavy chain of anti-TROP2 antibody

TAGMQ

[Figure 39]

SEQ ID NO: 29 - Amino acid sequence of the CDRH2 of heavy chain of anti-TROP2 antibody
WINTHSGVPKYAEDFKG

[Figure 40]

SEQ ID NO: 30 - Amino acid sequence of the CDRH3 of heavy chain of anti-TROP2 antibody
SGFGSSYWYFDV

[Figure 41]

SEQ ID NO: 31 - Amino acid sequence of the CDRL1 of light chain of anti-TROP2 antibody
KASQDVSTAVA

[Figure 42]

SEQ ID NO: 32 - Amino acid sequence of the CDRL2 of light chain of anti-TROP2 antibody
SASYRYT

[Figure 43]

SEQ ID NO: 33 - Amino acid sequence of the CDRL3 of light chain of anti-TROP2 antibody
QQHYITPLT

[Figure 44]

SEQ ID NO: 34 - Amino acid sequence of the heavy chain
variable region of anti-TROP2 antibody

QVQLVQSGAEVKKPGASVKVSCKASGYTFTTAGMQWVRQAPGQGLEWMGWINTHSGV
PKYAEDFKGRVTISADTSTSTAYLQLSSLKSEDTAVYYCARSFGSSYWYFDVWGQG
TLVTVSS

[Figure 45]

SEQ ID NO: 35 - Amino acid sequence of the light chain
variable region of anti-TROP2 antibody

DIQMTQSPSSLSASVGDRVTITCKASQDVSTAVAWYQQKPGKAPKLLIYSASYRTG
VPSRFSGSGSGTDFTLTISLQPEDFAVYYCQQHYITPLTFGQGTKLEIKRT