

Figure 1

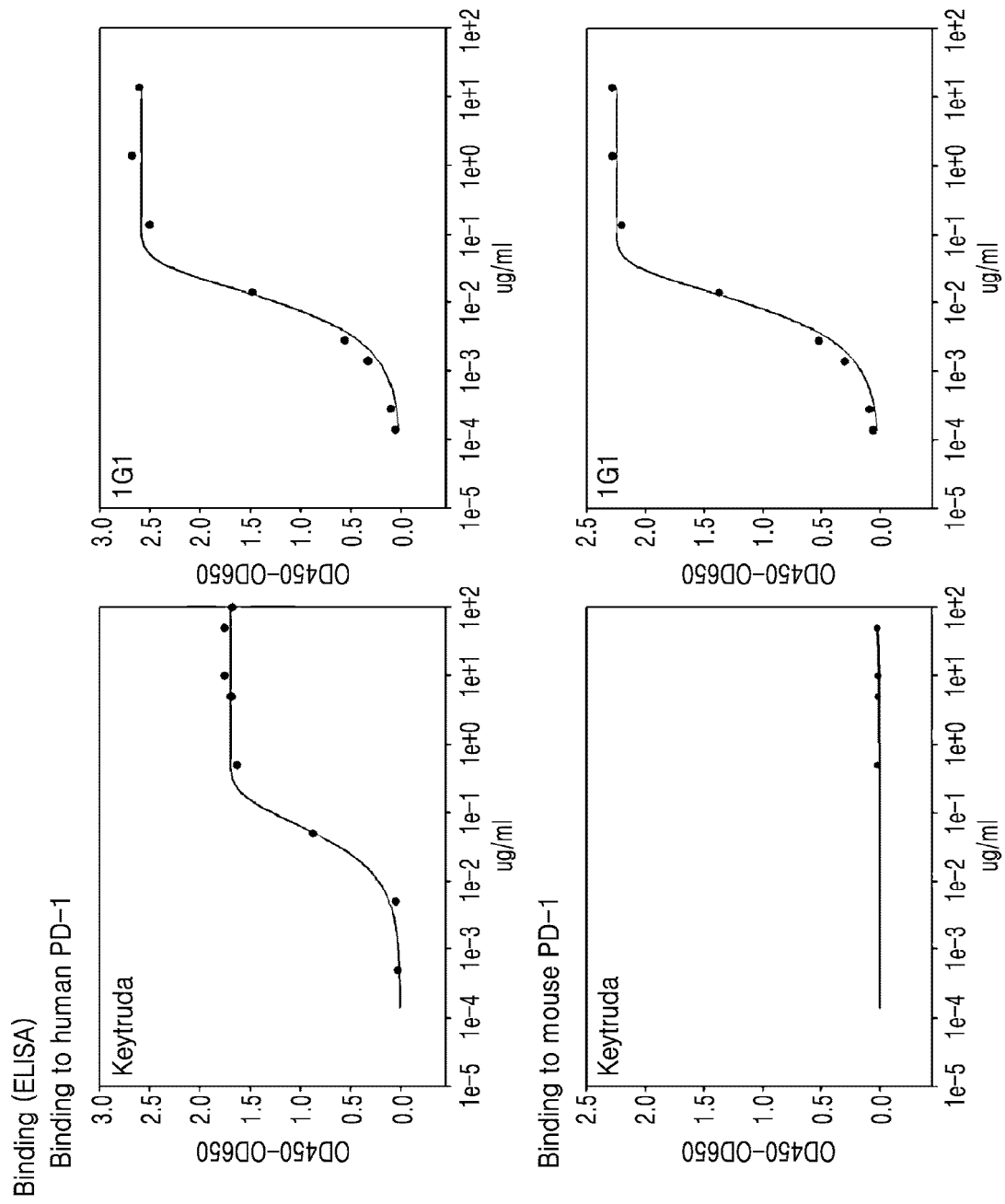


Figure 2

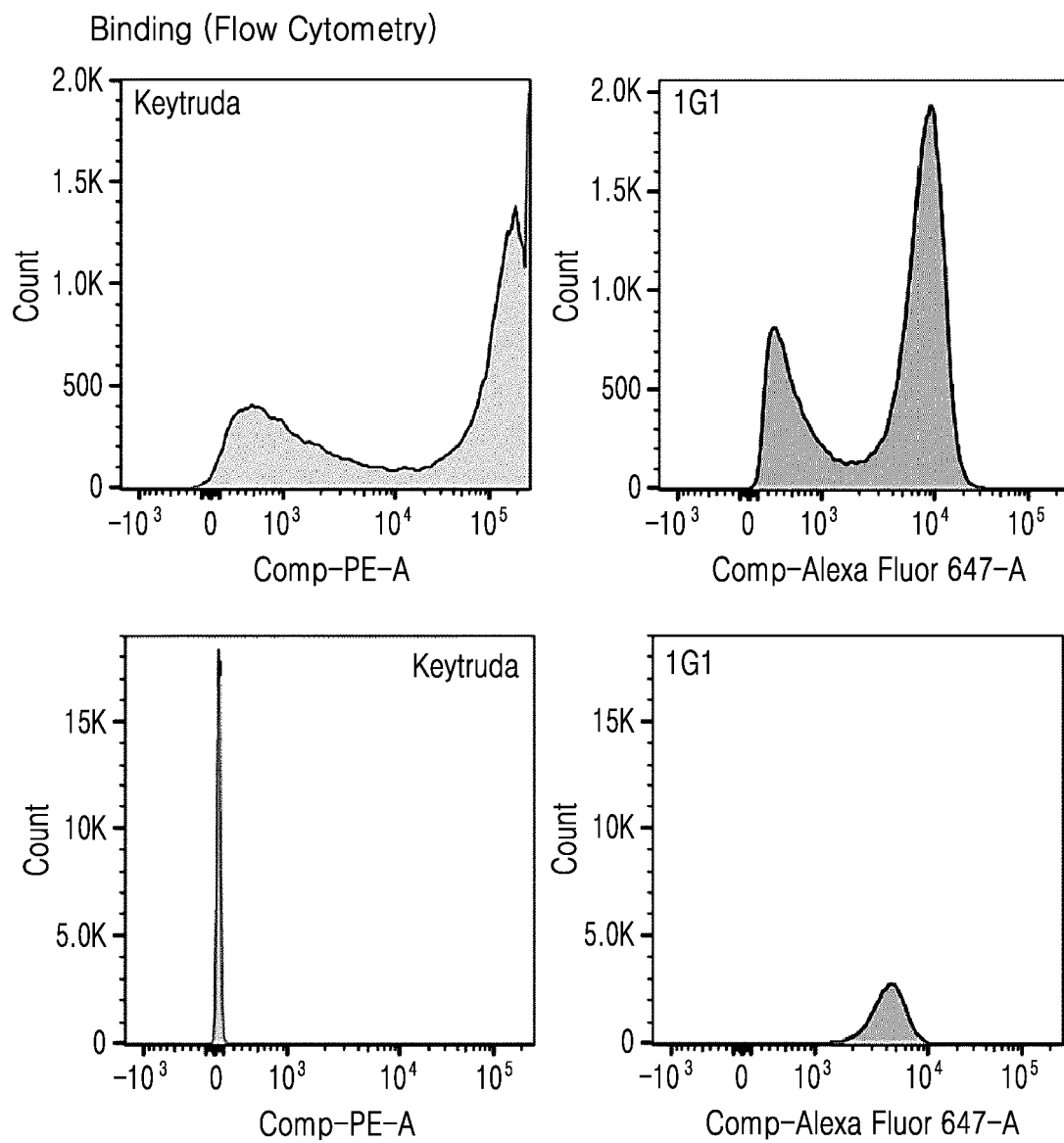


Figure 3

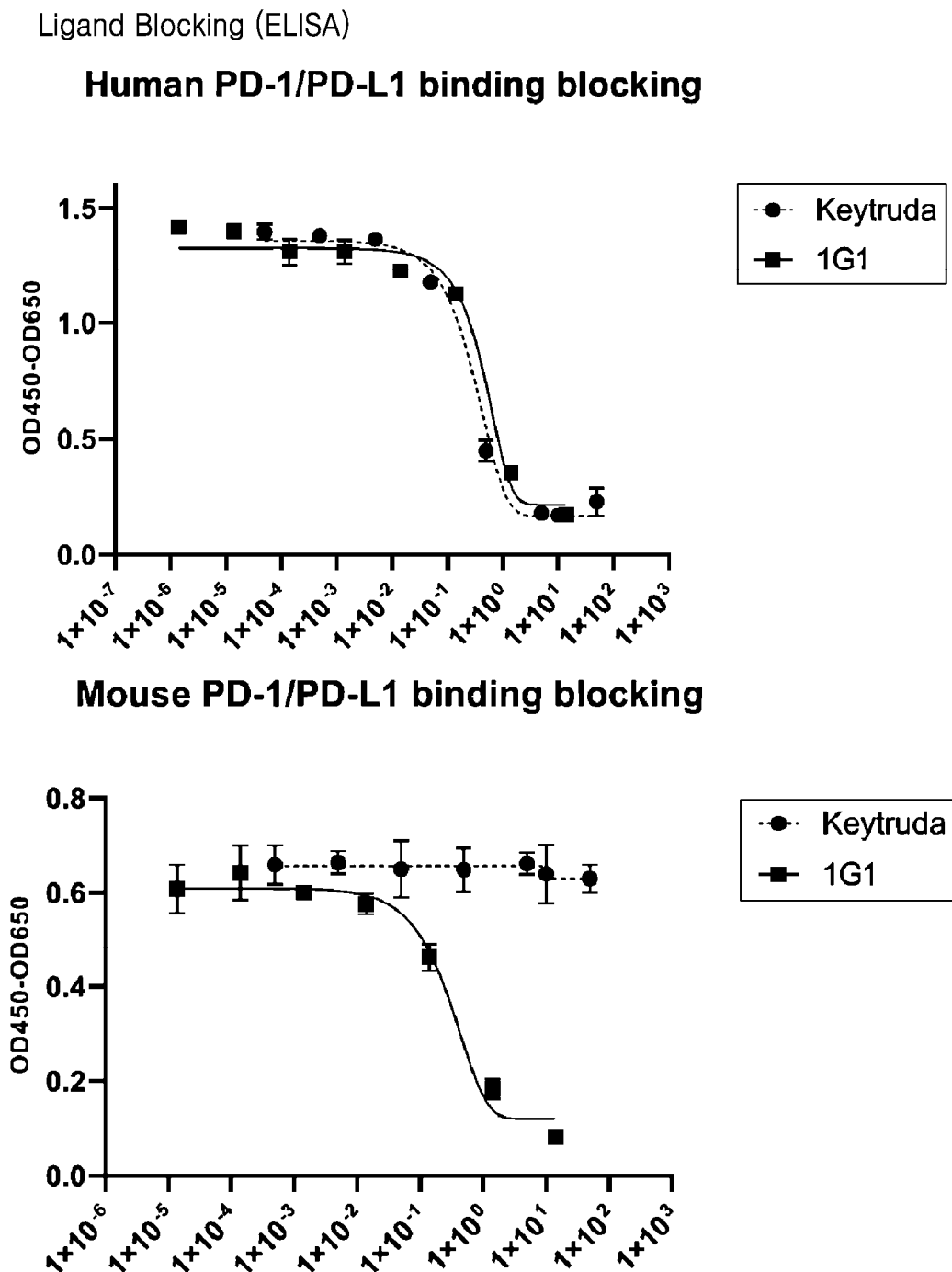


Figure 4

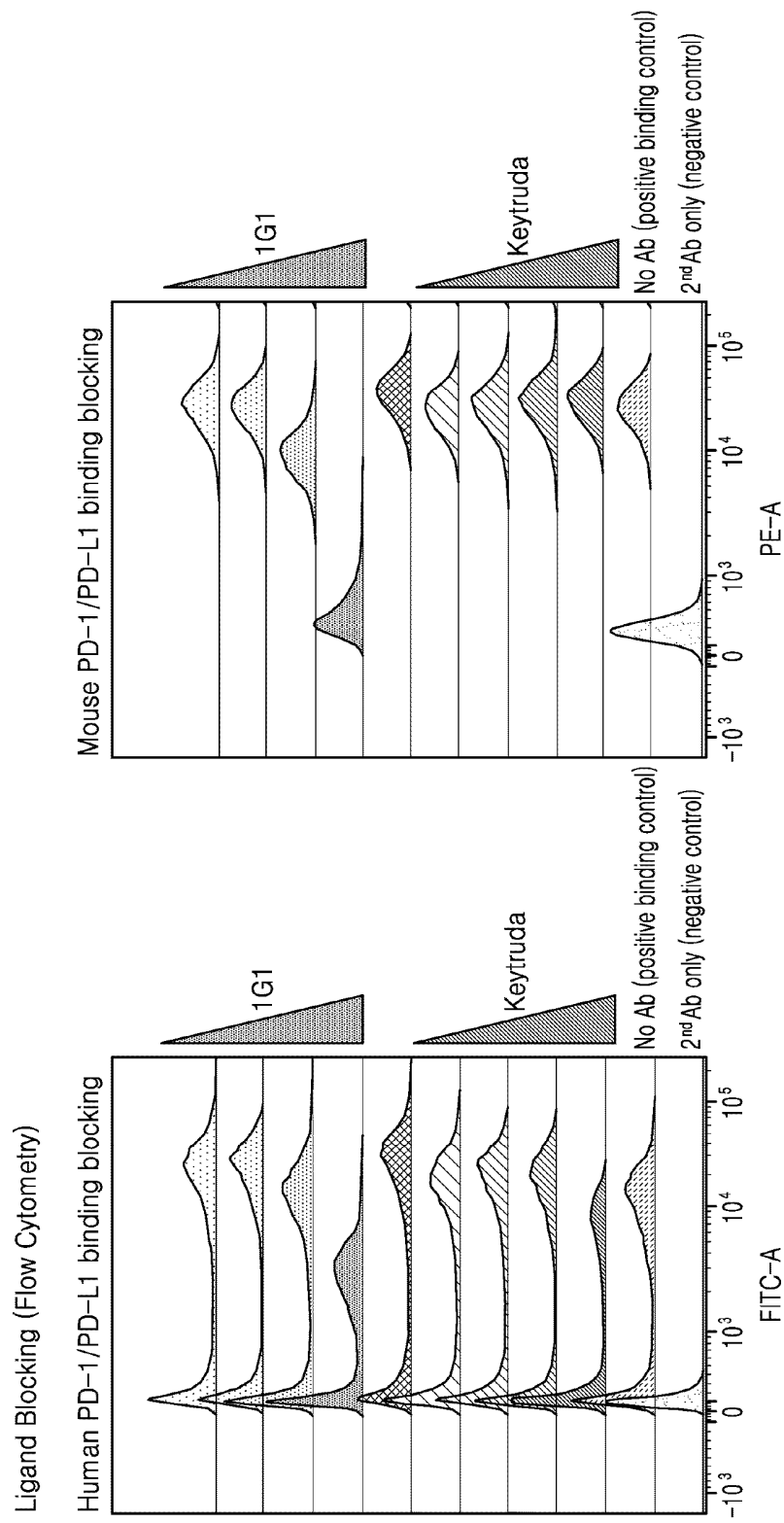


Figure 5

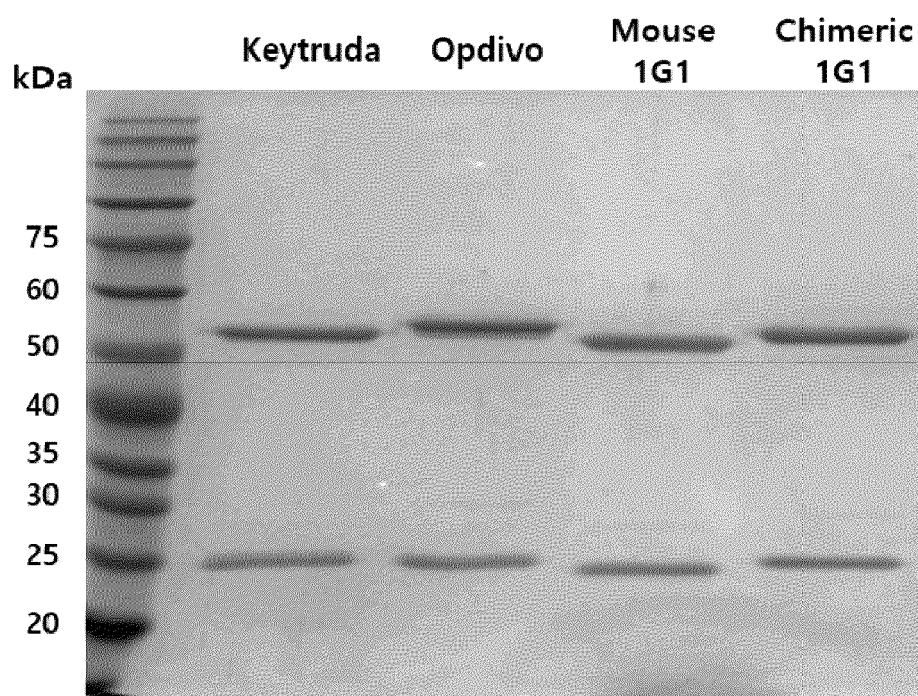


Figure 6

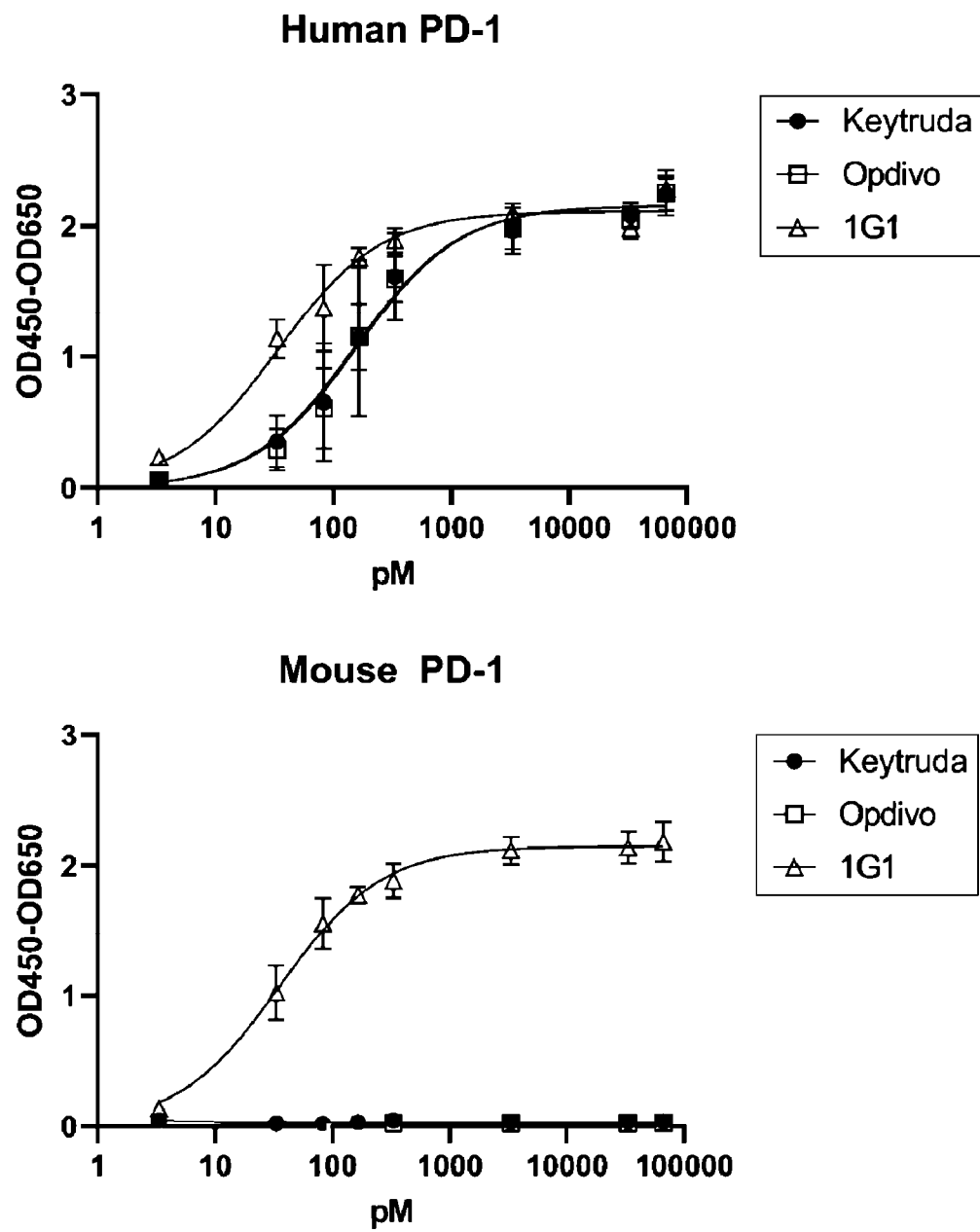


Figure 7

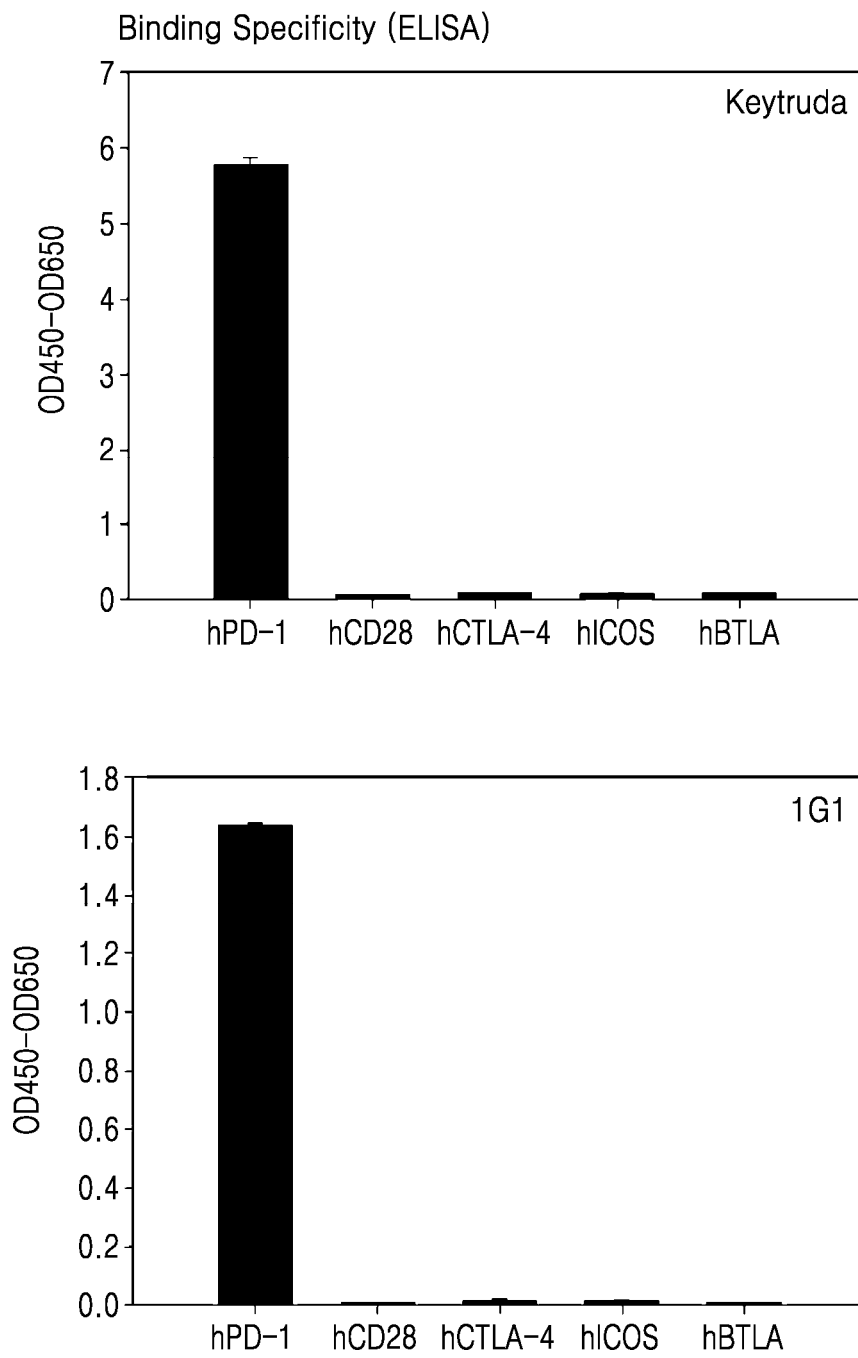


Figure 8

Amino acid sequence

Heavy chain

Humanized antibody 1G1-h61

MGWSCILFLVATATGVHSQVQLVQSGAEVKKPGASVKVSCKASGYTFTGYWM
HWVRQAPGQGLEWMGMIHPNSDTTTYNEKFKNRVTMTRDTSISTAYMELSRL
RSDDTAVYYCAGTDQAAWFAFWGQGTTVTVSSASTKGPSVFPLAPCSRSTSESTA
ALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTKT
YTCNVDPKPSNTKVDKRVEISKYPPCPCSCAPEFLGGPSVFLFPPKPKDTLMISRTPE
VTCVVVDVSDPEVQFNWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLHQD
WLNGKEYKCKVSNKGLPSSIEKTISKAKGQPREPQVYTLPPSQEEMTKNQVSLTCLV
KGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKSRWQEGNVFSCS
VMHEALHNHYTQKSLSLGLK**

Humanized antibody 1G1-h68

MGWSCILFLVATATGVHSQVQLVQSGAEVKKPGASVKVSCKASGYTFTGYWM
HWVRQAPGQGLEWIGMIHPNSDTTTYNEKFKNRVTMTRDTSISTAYMELSRLR
SDDTAVYYCTGTDQAAWFAFWGQGTTVTVSSASTKGPSVFPLAPCSRSTSESTAA
LGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTKTYT
CNVDHKPSNTKVDKRVEISKYPPCPCSCAPEFLGGPSVFLFPPKPKDTLMISRTPEVT
CVVVVDVSDPEVQFNWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLHQDWL
NGKEYKCKVSNKGLPSSIEKTISKAKGQPREPQVYTLPPSQEEMTKNQVSLTCLVKG
FYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKSRWQEGNVFSCSVM
HEALHNHYTQKSLSLGLK**

Humanized antibody 1G1-h70

MGWSCILFLVATATGVHSQVQLVQSGAEVKKPGASVKVSCKASGYTFTGYWM
HWVRQAPGQGLEWIGMIHPNSDTTTYNEKFKNRVTMTRDTSISTAYMELSRLR
SDDTAVYYCAGTDQAAWFAFWGQGTTVTVSSASTKGPSVFPLAPCSRSTSESTAA
LGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTKTYT
CNVDHKPSNTKVDKRVEISKYPPCPCSCAPEFLGGPSVFLFPPKPKDTLMISRTPEVT
CVVVVDVSDPEVQFNWYVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLHQDWL
NGKEYKCKVSNKGLPSSIEKTISKAKGQPREPQVYTLPPSQEEMTKNQVSLTCLVKG
FYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKSRWQEGNVFSCSVM
HEALHNHYTQKSLSLGLK**

Figure 9

Amino acid sequence

Light chain

Humanized antibody 1G1-h61

MGWSCILFLVATATGVHSDIVMTQTPLSLSVTPGQPASISCRSSQNIVHSNGDTYL
EWYLQKPGQSPKLLIYKYSKRFSGVDPDRFSGSGSGTDFTLKISRVEAEDVGVYY
CFQGSHVPWTFGGGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPRE
AKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTH
QGLSSPVTKSFNRGEC**

Humanized antibody 1G1-h68

MGWSCILFLVATATGVHSDIVMTQTPLSLSVTPGQPASISCRSSQNIVHSNGDTYL
EWYLQKPGQSPQLLIYKYSKRFSGVDPDRFSGSGSGTDFTLKISRVEAEDVGVYY
CFQGSHVPWTFGGGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPRE
AKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTH
QGLSSPVTKSFNRGEC**

Humanized antibody 1G1-h70

MGWSCILFLVATATGVHSDIVMTQTPLSLSVTPGQPASISCRSSQNIVHSQGDYTL
EWYLQKPGQSPQLLIYKYSKRFSGVDPDRFSGSGSGTDFTLKISRVEAEDVGVYY
CFQGSHVPWTFGGGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPRE
AKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTH
QGLSSPVTKSFNRGEC**

Figure 10a

DNA sequence

Heavy chain

Humanized antibody 1G1-h61

ATGGGCTGGTCTTGTATTATTCTGTTTCTGGTCGCAACTGCTACAGGCGTGCATTC
TCAAGTTCAGCTGGTGCAGAGCGGCGCCGAGGTGAAGAAGCCTGGAGCCAG
CGTGAAAGTGTCTTGCAAGGCCTCTGGCTACACCTTTACAGGCTACTGGAT
GCACTGGGTGCGGCAGGCCCTGGACAGGGCCTGGAATGGATGGGCATGA
TCCACCCCAACAGCGACACCACAACCTACAACGAGAAGTTCAAGAATAGAG
TGACCATGACAAGAGATACCAGCATCAGCACCGCCTACATGGAAGTGAAGCA
GACTGCGGTCCGATGACACAGCTGTGTACTATTGTGCCGGCACCGACCAGG
CCGCTTGTTTCGCCCTTCTGGGGGCAGGGCACACAGTCACCGTGAGCTCTG
CCAGCACCAAGGGCCCTTCCGTGTTTCCCCTGGCCCCTTGCTCCCGGTCCACATCT
GAGAGCACCGCCGCCCTGGGCTGTCTGGTGAAGGACTACTTCCCAGAGCCCGTG
ACCGTGAGCTGGAACAGCGGCGCCCTGACAAGCGGCGTGCACACATTTCCCGCC
GTGCTGCAGAGCTCCGGCCTGTACTCCCTGTCTAGCGTGGTGACAGTGCCTTCCT
CTAGCCTGGGCACCAAGACATATACCTGTAACGTGGACCACAAGCCAAGCAATA
CCAAGGTGGATAAGCGGGTGGAGTCTAAGTACGGCCCTCCTTGCCCTAGCTGTCC
TGCTCCAGAGTTTCTGGGCGGCCCTTCCGTGTTTCCCTGTTTCCACCCAAACCAAAG
GACACACTGATGATCTCTAGAACACCAGAGGTGACCTGCGTGGTGGTGGACGTG
AGCCAGGAGGATCCCGAGGTGCAGTTCAACTGGTACGTGGATGGCGTGGAGGTG
CACAATGCCAAGACCAAGCCAAGAGAGGAGCAGTTTAACTCTACATACAGGGTG
GTGAGCGTGCTGACCGTGCTGCACCAGGATTGGCTCAACGGCAAGGAGTATAAG
TGCAAGGTGTCCAATAAGGGCCTGCCCTCCTCTATCGAGAAGACAATCTCTAAGG
CTAAGGGCCAGCCAAGAGAGCCTCAGGTGTACACCCTGCCTCCAAGCCAGGAGG
AGATGACAAAGAACCAGGTGTCCCTGACATGTCTGGTGAAGGGCTTCTATCCCTC
CGACATCGCCGTGGAGTGGGAGTCTAATGGCCAGCCTGAGAACAATTACAAGAC
CACACCCCTGTGCTGGACTCTGATGGCAGCTTCTTTCTGTATTCCAGGCTGACC
GTGGATAAGTCTCGGTGGCAGGAGGGCAACGTGTTTCAAGTGTCTGTGATGCAC
GAAGCCCTGCATAATCACTATACTCAGAAAAGTCTGTCACTGTCACTGGGAAAGT
GATAA

Figure 10b

DNA sequence

Heavy chain

Humanized antibody 1G1-h68

ATGGGCTGGTCTTGTATTATTCTGTTTCTGGTCGCAACTGCTACAGGCGTGCAATC
TCAAGTTCAGCTGGTGCAGAGCGGCGCCGAGGTGAAGAAGCCTGGAGCCAG
CGTGAAAGTGTCTGCAAGGCCTCTGGCTACACCTTTACAGGCTACTGGAT
GCACTGGGTGCGGCAGGCCCTGGACAGGGCCTGGAATGGATCGGCATGAT
CCACCCCAACAGCGACACCACAACCTACAACGAGAAGTTCAAGAATAGAGT
GACCATGACAAGAGATACCAGCATCAGCACCGCCTACATGGAACTGAGCAG
ACTGCGGTCCGATGACACAGCTGTGTACTATTGTACCGGCACCGACCAGGC
CGCTTGGTTCGCCTTCTGGGGGCGAGGGCACACAGTCACCGTGAGCTCTGC
CAGCACC AAGGGCCCTTCCGTGTTTCCCCTGGCCCCTTGCTCCCGGTCCACATCT
GAGAGCACCGCCGCCCTGGGCTGTCTGGTGAAGGACTACTTCCCAGAGCCCGTG
ACCGTGAGCTGGAACAGCGGCGCCCTGACAAGCGGCGTGACACATTTCCCGCC
GTGCTGCAGAGCTCCGGCCTGTACTCCCTGTCTAGCGTGGTGACAGTGCCTTCCT
CTAGCCTGGGCACCAAGACATATACCTGTAACGTGGACCACAAGCCAAGCAATA
CCAAGGTGGATAAGCGGGTGGAGTCTAAGTACGGCCCTCCTTGCCCTAGCTGTCC
TGCTCCAGAGTTTCTGGGCGGCCCTTCCGTGTTCTGTTTCCACCCAAACCAAAG
GACACACTGATGATCTCTAGAACACCAGAGGTGACCTGCGTGGTGGTGGACGTG
AGCCAGGAGGATCCCGAGGTGCAGTTCAACTGGTACGTGGATGGCGTGGAGGTG
CACAATGCCAAGACCAAGCCAAGAGAGGAGCAGTTTAACTCTACATACAGGGTG
GTGAGCGTGCTGACCGTGCTGCACCAGGATTGGCTCAACGGCAAGGAGTATAAG
TGCAAGGTGTCCAATAAGGGCCTGCCCTCCTCTATCGAGAAGACAATCTCTAAGG
CTAAGGGCCAGCCAAGAGAGCCTCAGGTGTACACCCTGCCTCCAAGCCAGGAGG
AGATGACAAAGAACCAGGTGTCCCTGACATGTCTGGTGAAGGGCTTCTATCCCTC
CGACATCGCCGTGGAGTGGGAGTCTAATGGCCAGCCTGAGAACAATTACAAGAC
CACACCCCCTGTGCTGGACTCTGATGGCAGCTTCTTTCTGTATTCCAGGCTGACC
GTGGATAAGTCTCGGTGGCAGGAGGGCAACGTGTTCAAGCTGCTCTGTGATGCAC
GAAGCCCTGCATAATCACTATACTCAGAAAAGTCTGTCACTGTCACTGGGAAAGT
GATAA

Figure 10c

DNA sequence

Heavy chain

Humanized antibody 1G1-h70

ATGGGCTGGTCTTGTATTATTCTGTTTCTGGTCGCAACTGCTACAGGCGTGCATTC
TCAAGTTCAGCTGGTGCAGAGCGGCGCCGAGGTGAAGAAGCCTGGAGCCAG
CGTGAAAGTGTCTGCAAGGCCTCTGGCTACACCTTTACAGGCTACTGGAT
GCACTGGGTGCGGCAGGCCCTGGACAGGGCCTGGAATGGATCGGCATGAT
CCACCCCAACAGCGACACCACAACCTACAACGAGAAGTTCAAGAATAGAGT
GACCATGACAAGAGATAACCAGCATCAGCACCGCCTACATGGAACTGAGCAG
ACTGCGGTCCGATGACACAGCTGTGTACTATTGTGCCGGCACCGACCAGGC
CGCTTGGTTTCGCTTCTGGGGGCAGGGCACACAGTCACCGTGAGCTCTGC
CAGCACCAAGGGCCCTTCCGTGTTCCCTGGCCCTTGCTCCCGGTCCACATCT
GAGAGCACCGCCGCCCTGGGCTGTCTGGTGAAGGACTACTTCCCAGAGCCCGTG
ACCGTGAGCTGGAACAGCGGCGCCCTGACAAGCGGCGTGACACATTTCCCGCC
GTGCTGCAGAGCTCCGGCCTGTACTCCCTGTCTAGCGTGGTGACAGTGCCTTCCT
CTAGCCTGGGCACCAAGACATATACCTGTAACGTGGACCACAAGCCAAGCAATA
CCAAGGTGGATAAGCGGGTGGAGTCTAAGTACGGCCCTCCTTGCCCTAGCTGTCC
TGCTCCAGAGTTTCTGGGCGGCCCTTCCGTGTTCTGTTCACCCAAACCAAAG
GACACACTGATGATCTCTAGAACACCAGAGGTGACCTGCGTGGTGGTGGACGTG
AGCCAGGAGGATCCCGAGGTGCAGTTCAACTGGTACGTGGATGGCGTGGAGGTG
CACAATGCCAAGACCAAGCCAAGAGAGGAGCAGTTTAACTCTACATACAGGGTG
GTGAGCGTGCTGACCGTGCTGCACCAGGATTGGCTCAACGGCAAGGAGTATAAG
TGCAAGGTGTCCAATAAGGGCCTGCCCTCCTCTATCGAGAAGACAATCTCTAAGG
CTAAGGGCCAGCCAAGAGAGCCTCAGGTGTACACCCTGCCTCCAAGCCAGGAGG
AGATGACAAAGAACCAGGTGTCCCTGACATGTCTGGTGAAGGGCTTCTATCCCTC
CGACATCGCCGTGGAGTGGGAGTCTAATGGCCAGCCTGAGAACCAATTACAAGAC
CACACCCCTGTGCTGGACTCTGATGGCAGCTTCTTTCTGTATTCCAGGCTGACC
GTGGATAAGTCTCGGTGGCAGGAGGGCAACGTGTTCACTGCTCTGTGATGCAC
GAAGCCCTGCATAATCACTATACTCAGAAAAGTCTGTCACTGTCACTGGGAAAGT
GATAA

Figure 11

DNA sequence

Light chain

Humanized antibody 1G1-h61

ATGGGCTGGTCATGTATTATTCTGTTTCTGGTCGCAACTGCTACAGGGGTCCATAGTGATATCGTT
ATGACCCAGACCCCTCTGAGCCTGTCCGTGACCCAGGCCAACCTGCCTCTATCAGCTGTAG
AAGCAGCCAGAACATCGTGACAGCAACGGCGACACCTACCTGGAATGGTATCTGCAGAAA
CCTGGACAGAGCCCCAAGCTGCTGATCTACAAGGTGTCCAAGCGGTTTTCCGGCGTGCCTGA
TAGATTCAGCGGATCTGGCAGCGGCACAGACTTCACCCTGAAGATTTCTAGAGTGGAGGCCG
AGGACGTGGGCGTCTACTACTGCTTCCAGGGCAGCCACGTGCCCTGGACATTCCGGCGGCGG
AACAAAGGTGGAAATCAAGAGGACAGTGGCCGCCCAAGCGTGTTTCATCTTTCCCCCTTCCGACG
AGCAGCTGAAGTCTGGCACC GCCAGCGTGGTGTGCCTGCTGAACAACCTTCTACCCTCGGGAGGCC
AAGGTCCAGTGGAAGGTGGATAACGCCCTGCAGTCTGGCAATAGCCAGGAGTCCGTGACCGAGCA
GGACTCTAAGGATAGCACATATTCCCTGTCTAGCACCCTGACACTGAGCAAGGCCGATTACGAGA
AGCACAAGGTGTATGCCTGTGAAGTCACCCATCAGGGGCTGTCATCACCCGTCACCTAAGTCATTCA
ATCGCGGAGAATGCTGATAA

Humanized antibody 1G1-h68

ATGGGCTGGTCATGTATTATTCTGTTTCTGGTCGCAACTGCTACAGGGGTCCATAGTGATATCGTT
ATGACCCAGACCCCTCTGAGCCTGTCCGTGACCCAGGCCAACCTGCCTCTATCAGCTGTAG
AAGCAGCCAGAACATCGTGACAGCAACGGCGACACCTACCTGGAATGGTATCTGCAGAAA
CCTGGACAGAGCCCCCAGCTGCTGATCTACAAGGTGTCCAAGCGGTTTTCCGGCGTGCCTGA
TAGATTCAGCGGATCTGGCAGCGGCACAGACTTCACCCTGAAGATTTCTAGAGTGGAGGCCG
AGGACGTGGGCGTCTACTACTGCTTCCAGGGCAGCCACGTGCCCTGGACATTCCGGCGGCGG
AACAAAGGTGGAAATCAAGAGGACAGTGGCCGCCCAAGCGTGTTTCATCTTTCCCCCTTCCGACG
AGCAGCTGAAGTCTGGCACC GCCAGCGTGGTGTGCCTGCTGAACAACCTTCTACCCTCGGGAGGCC
AAGGTCCAGTGGAAGGTGGATAACGCCCTGCAGTCTGGCAATAGCCAGGAGTCCGTGACCGAGCA
GGACTCTAAGGATAGCACATATTCCCTGTCTAGCACCCTGACACTGAGCAAGGCCGATTACGAGA
AGCACAAGGTGTATGCCTGTGAAGTCACCCATCAGGGGCTGTCATCACCCGTCACCTAAGTCATTCA
ATCGCGGAGAATGCTGATAA

Humanized antibody 1G1-h70

ATGGGCTGGTCATGTATTATTCTGTTTCTGGTCGCAACTGCTACAGGGGTCCATAGTGATATCGTTAT
GACCCAGACCCCTCTGAGCCTGTCCGTGACCCAGGCCAACCTGCCTCTATCAGCTGTAGAA
GCAGCCAGAACATCGTGACAGCCAGGGCGACACCTACCTGGAATGGTATCTGCAGAAACCT
GGACAGAGCCCCCAGCTGCTGATCTACAAGGTGTCCAAGCGGTTTTCCGGCGTGCCTGATAG
ATTCAGCGGATCTGGCAGCGGCACAGACTTCACCCTGAAGATTTCTAGAGTGGAGGCCGAGG
ACGTGGGCGTCTACTACTGCTTCCAGGGCAGCCACGTGCCCTGGACATTCCGGCGGCGGAACA
AAGGTGGAAATCAAGAGGACAGTGGCCGCCCAAGCGTGTTTCATCTTTCCCCCTTCCGACGAGCA
GCTGAAGTCTGGCACC GCCAGCGTGGTGTGCCTGCTGAACAACCTTCTACCCTCGGGAGGCCAAGGT
CCAGTGGAAGGTGGATAACGCCCTGCAGTCTGGCAATAGCCAGGAGTCCGTGACCGAGCAGGACT
CTAAGGATAGCACATATTCCCTGTCTAGCACCCTGACACTGAGCAAGGCCGATTACGAGAAGCACA
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AGAATGCTGATAA

Figure 12a

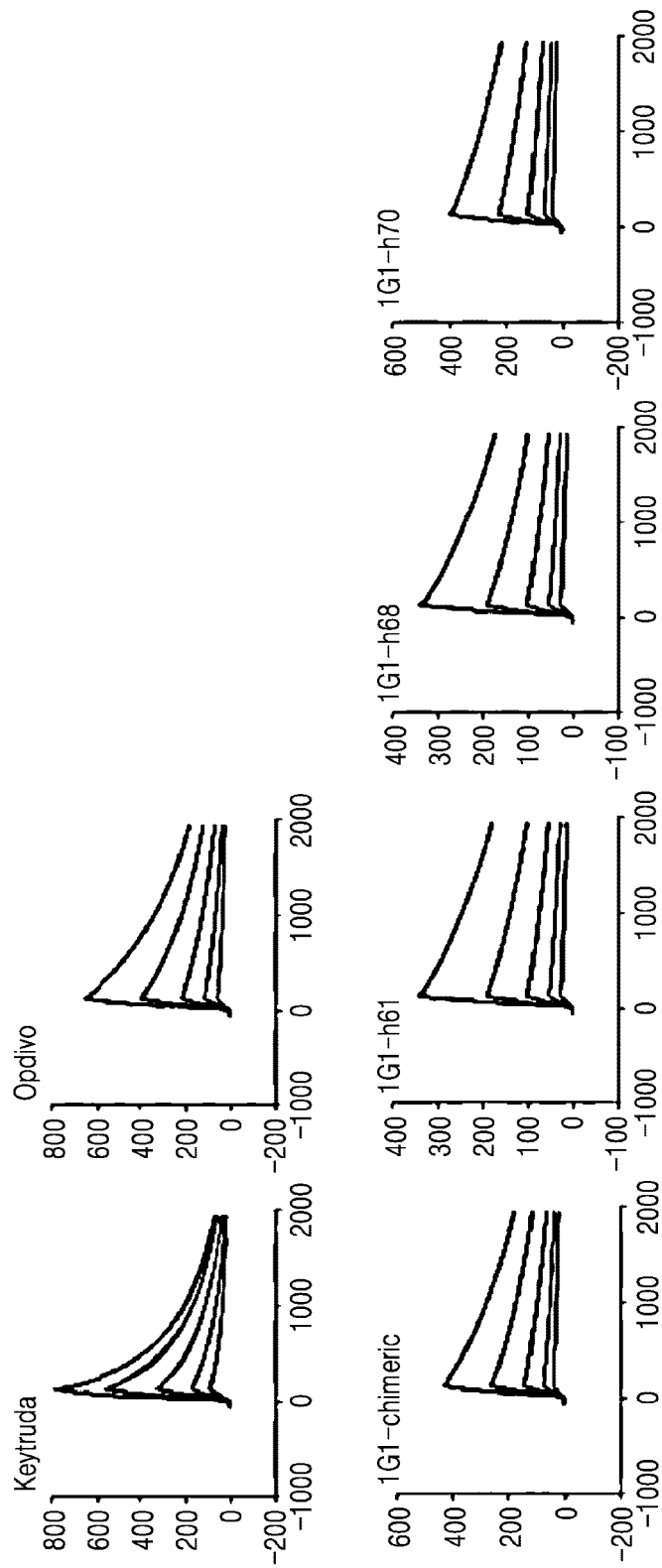


Figure 12b

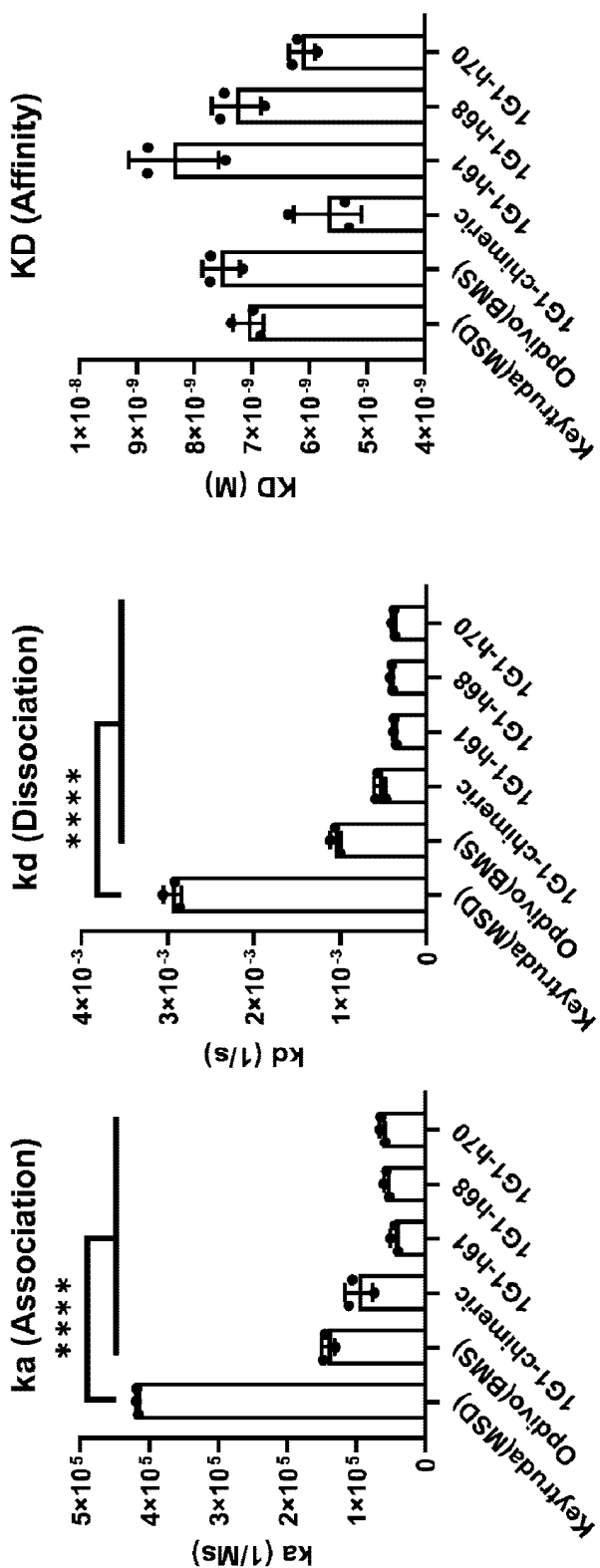


Figure 13

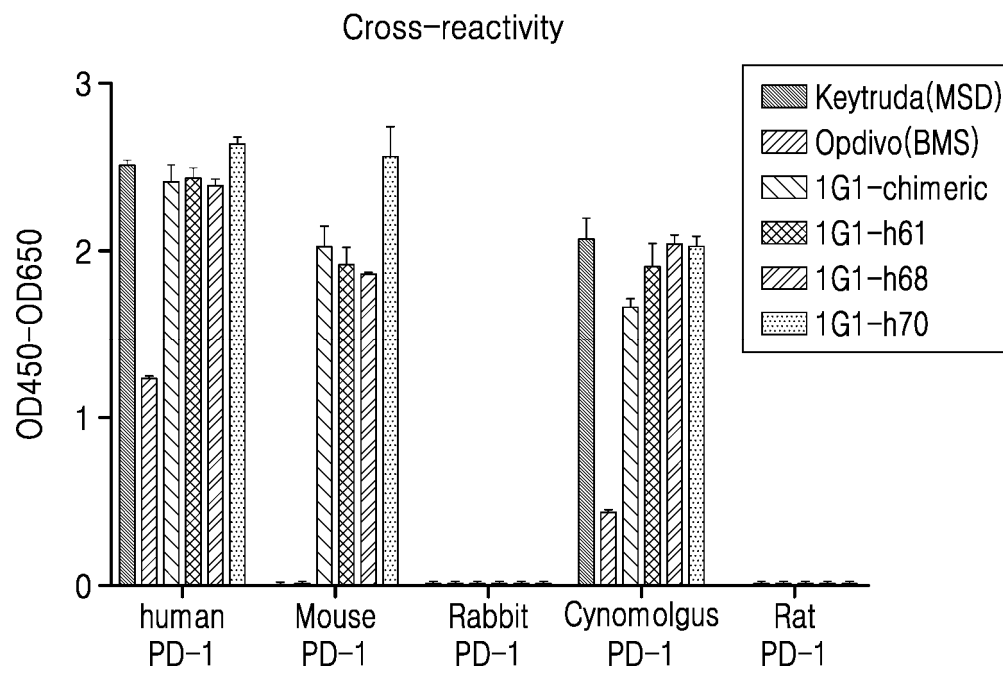


Figure 14

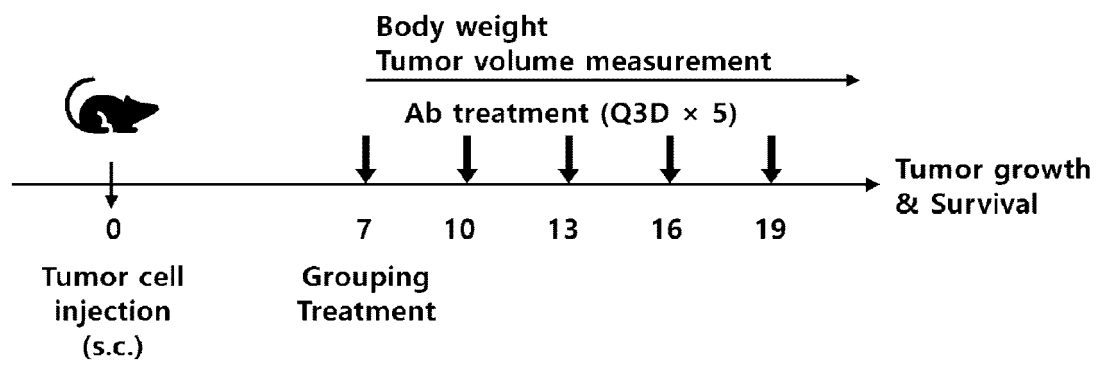


Figure 15

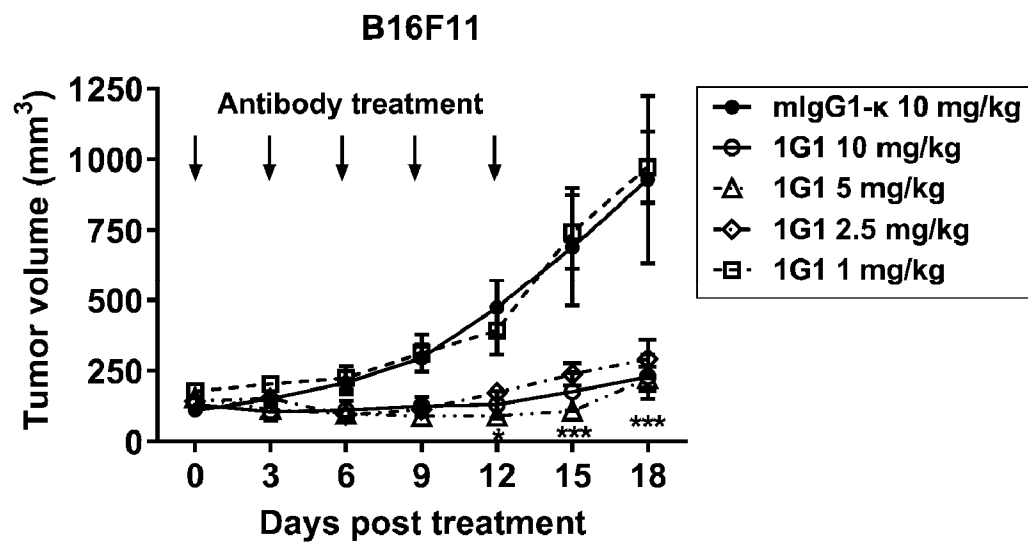


Figure 16

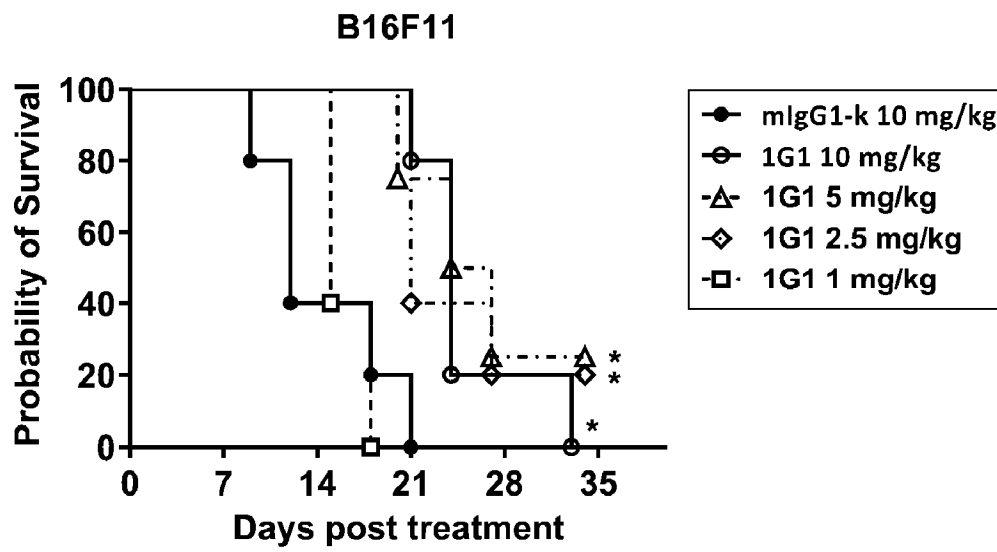


Figure 17

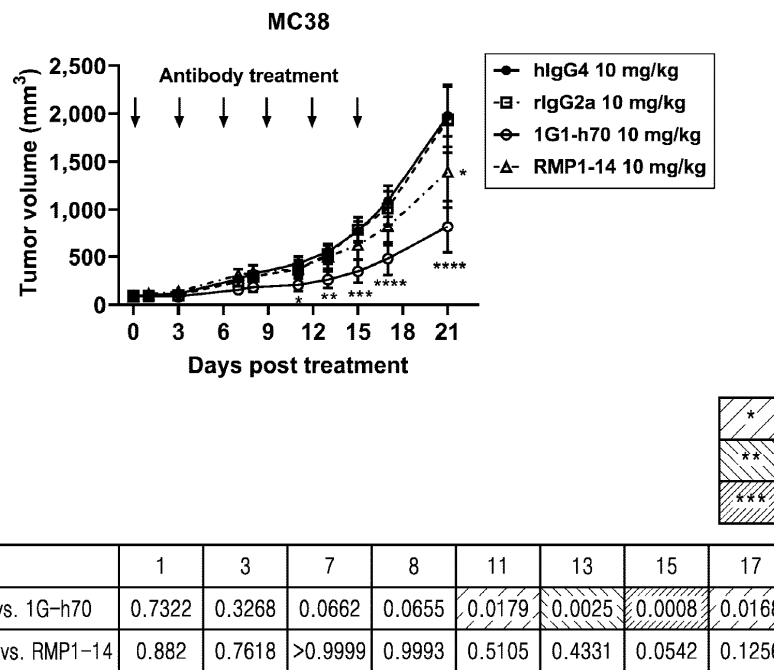


Figure 18

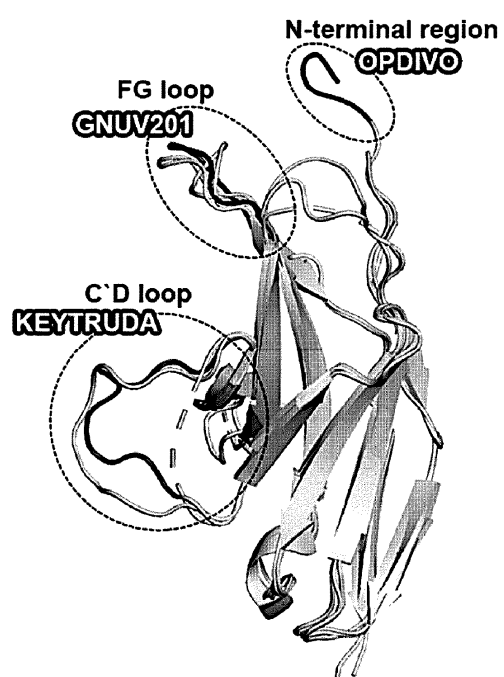


Figure 19a

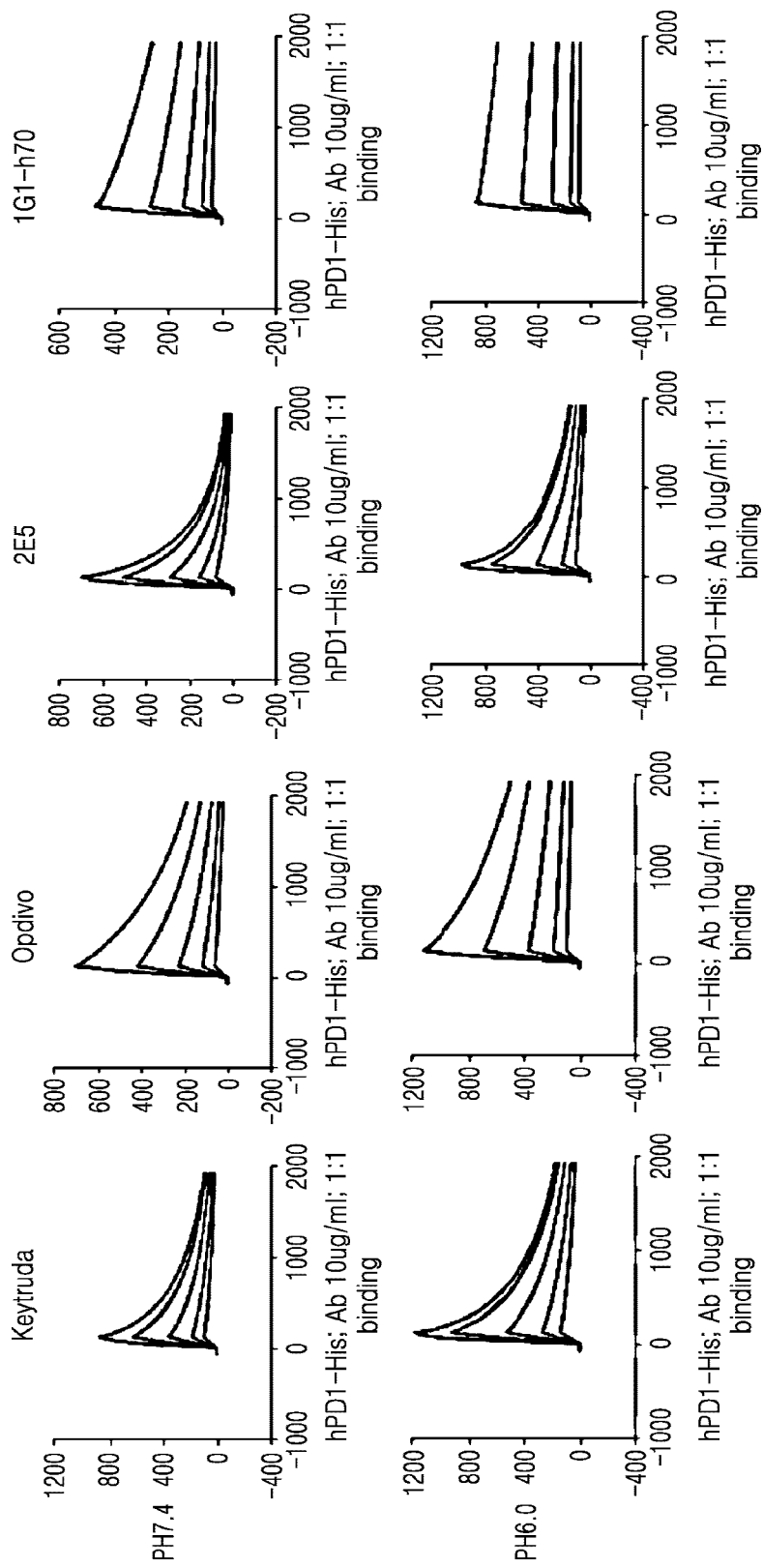


Figure 19b

