

Figure 1

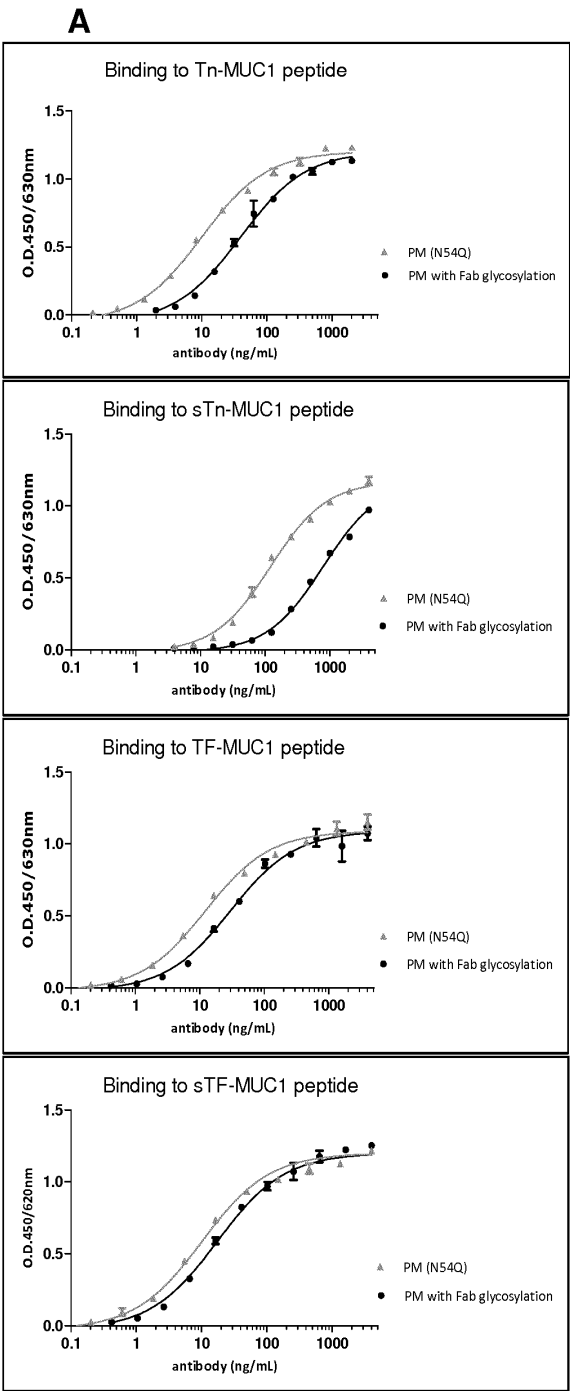


Figure 1 - continued

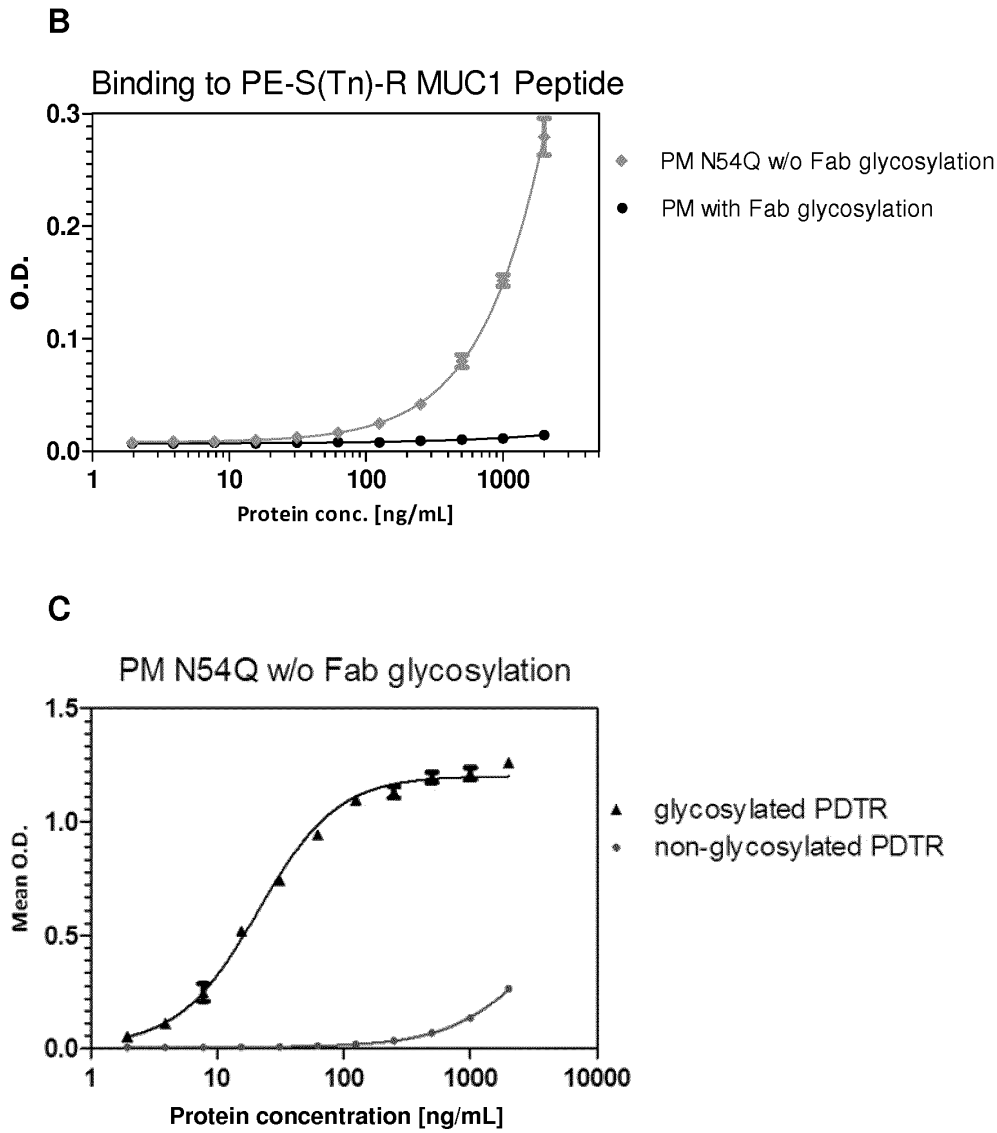


Figure 1 - continued

D

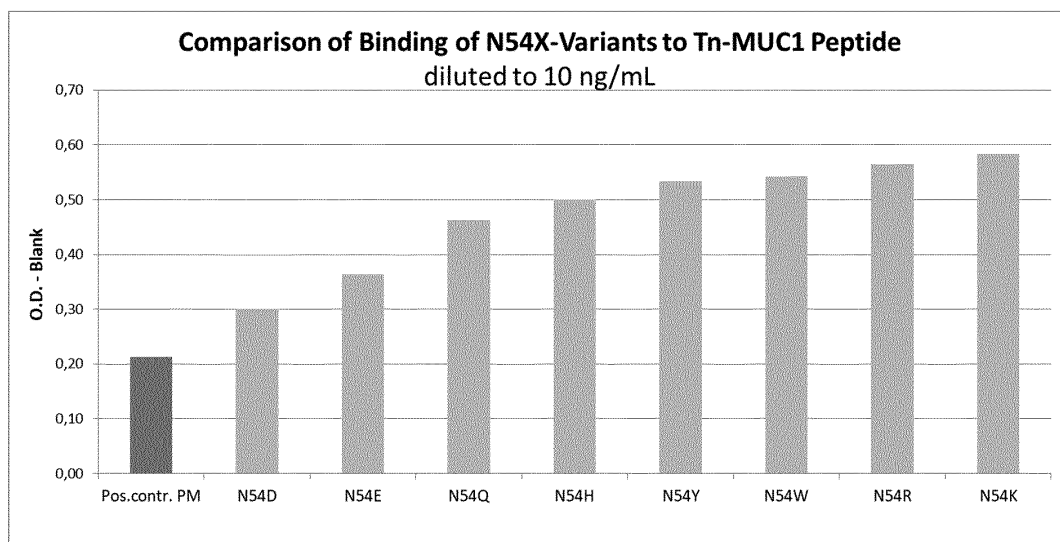


Figure 1 - continued

E

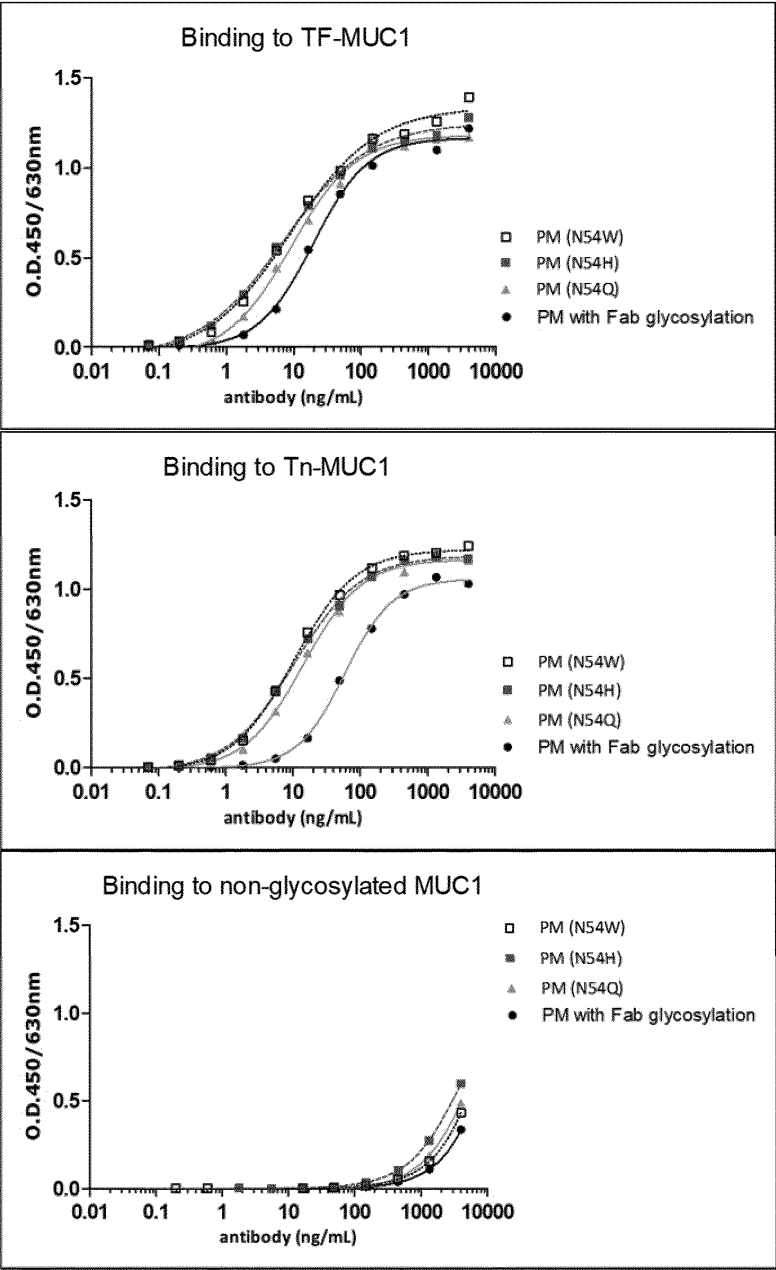


Figure 1 - continued

F

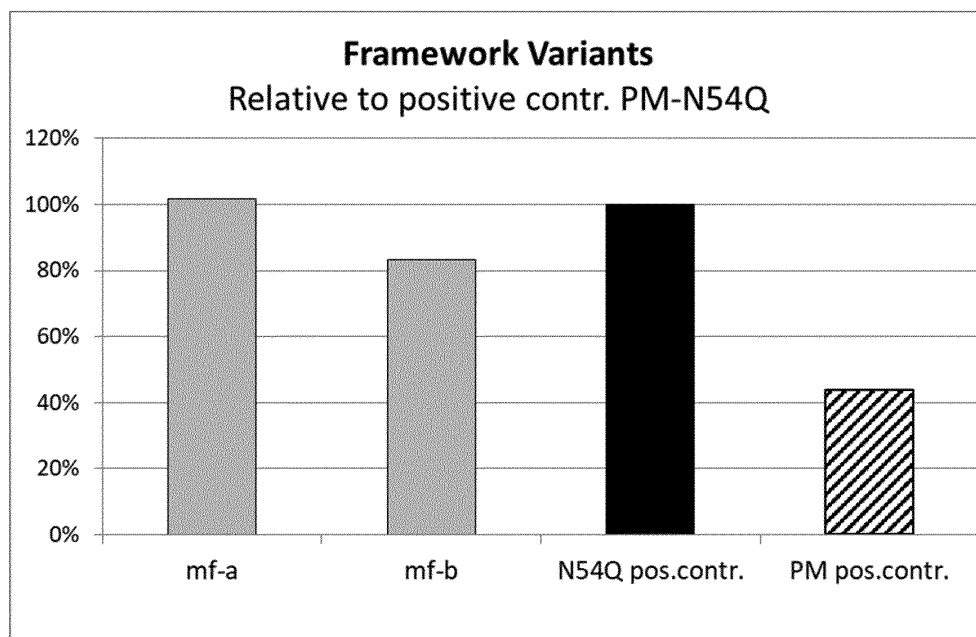


Figure 2

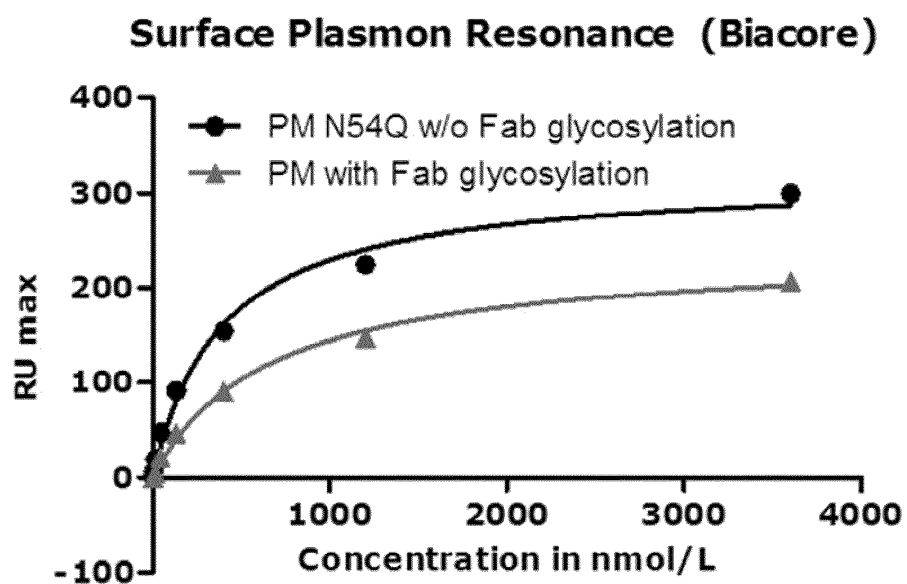


Figure 3

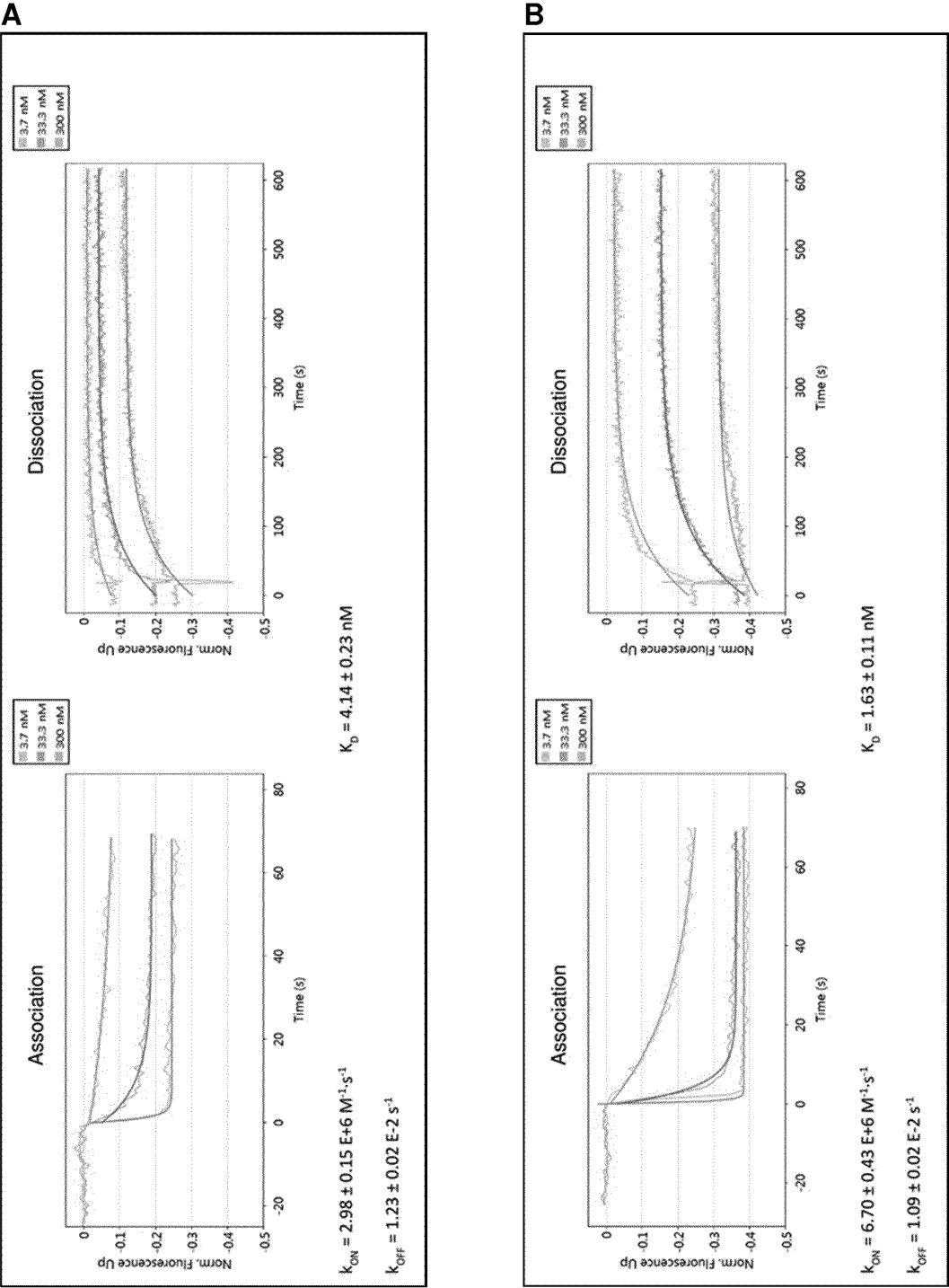


Figure 4

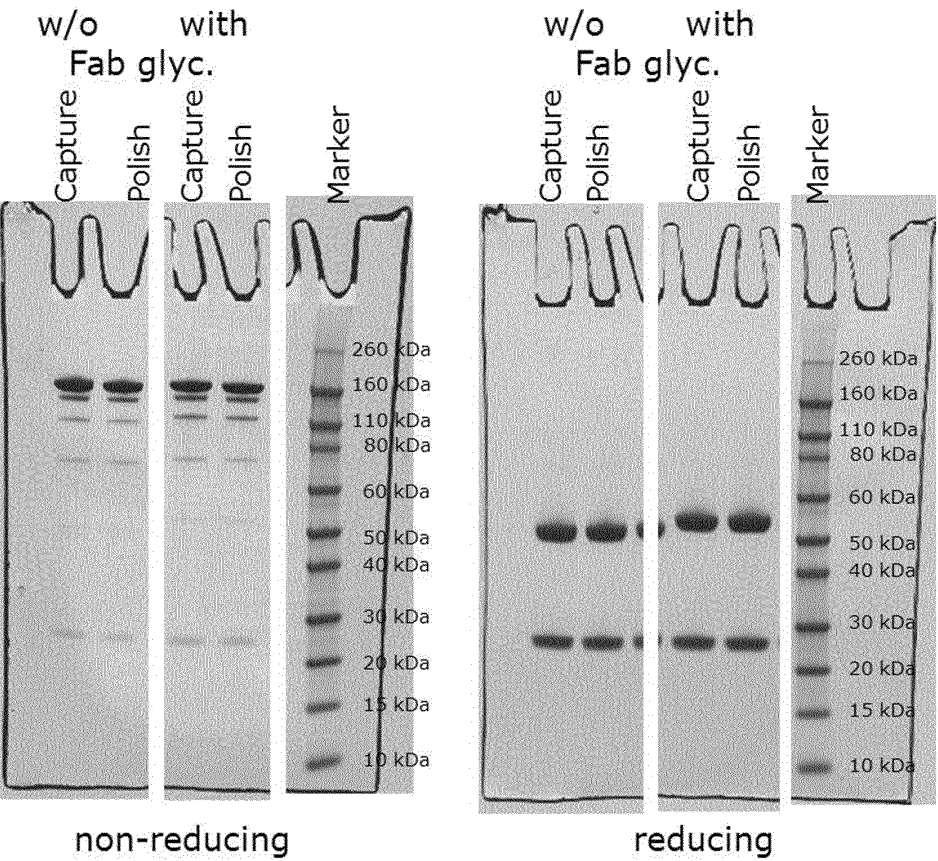


Figure 5

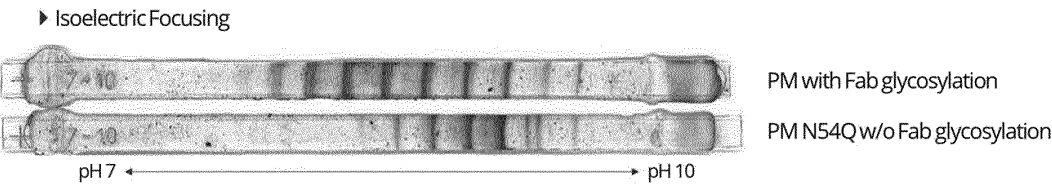


Figure 6

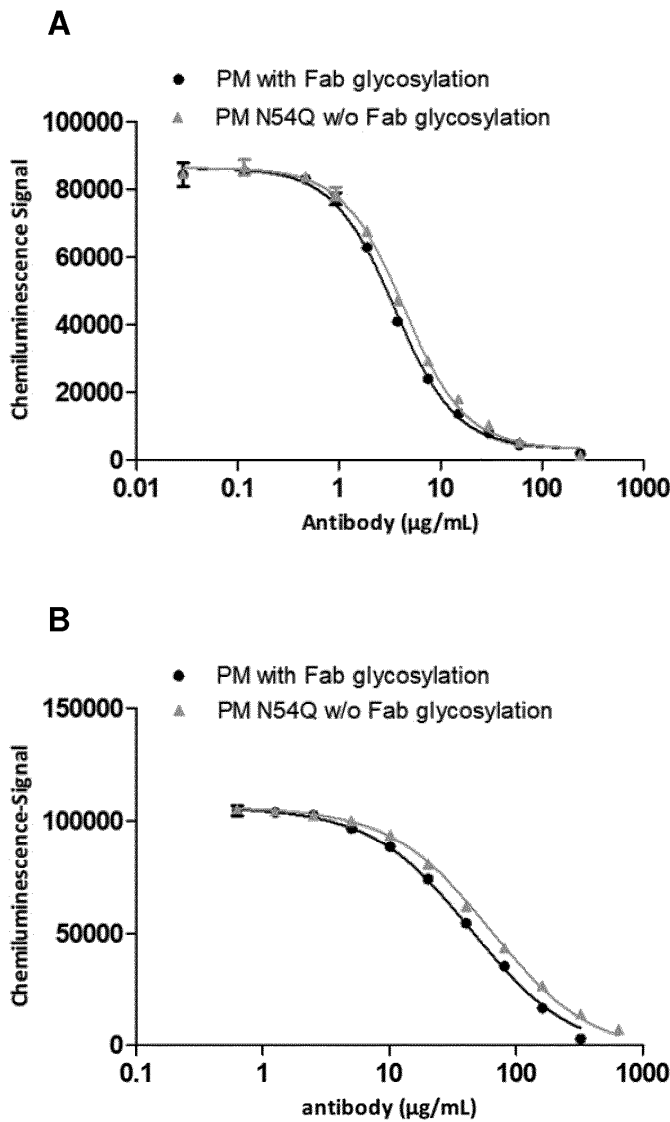
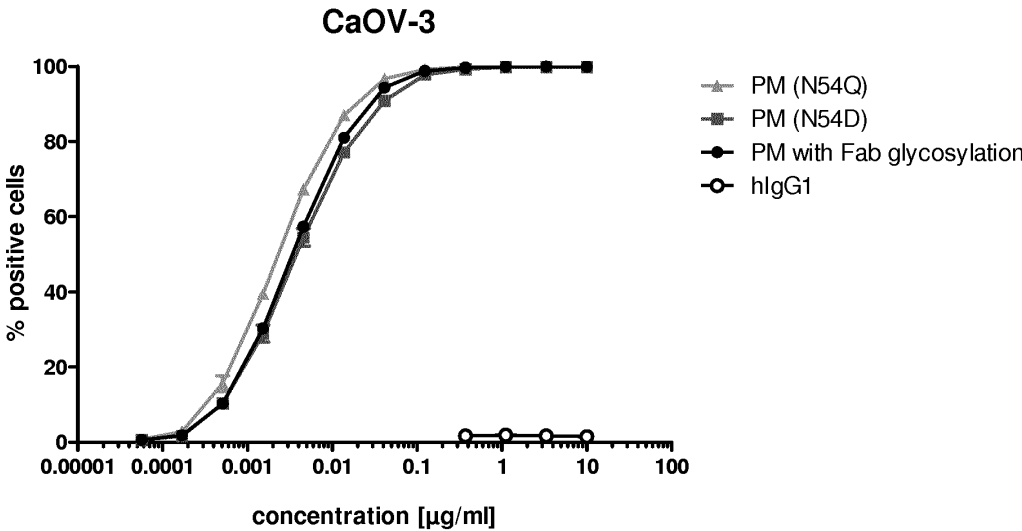


Figure 7

A



B

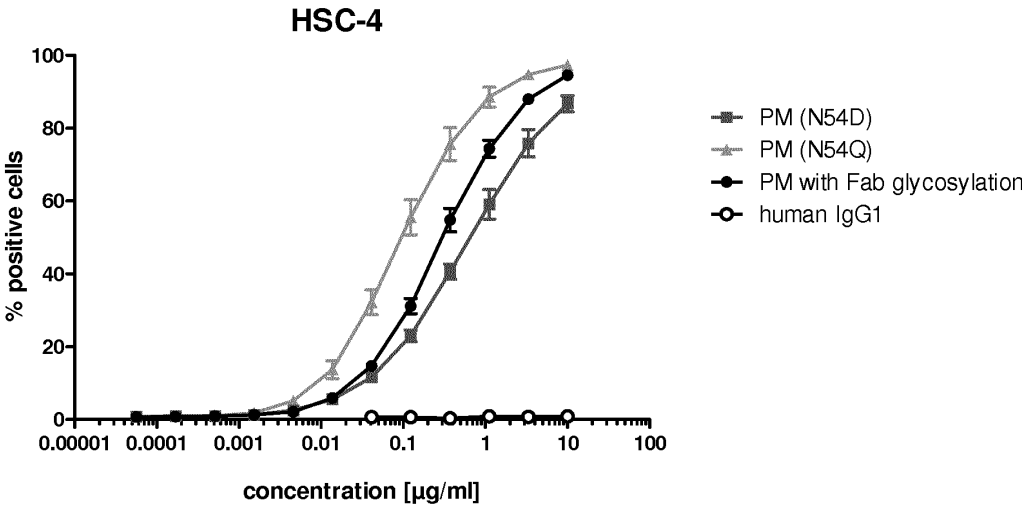


Figure 8

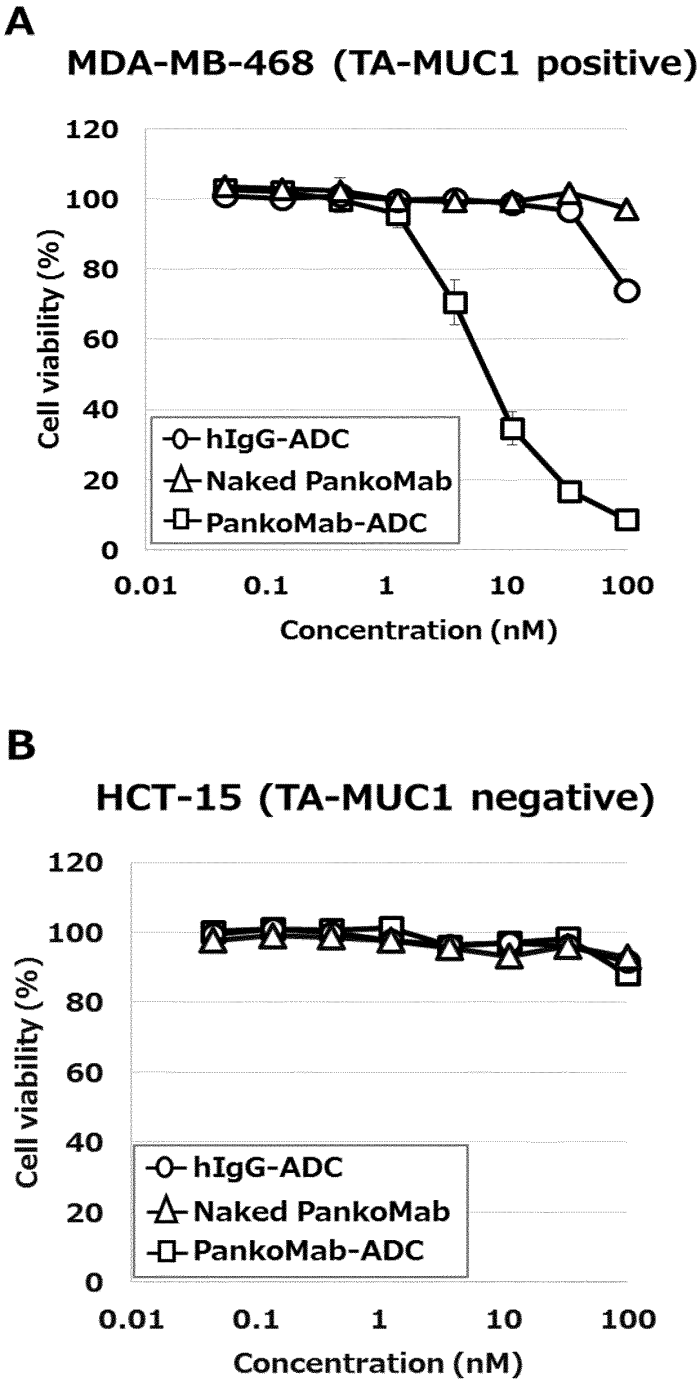


Figure 8 – continued

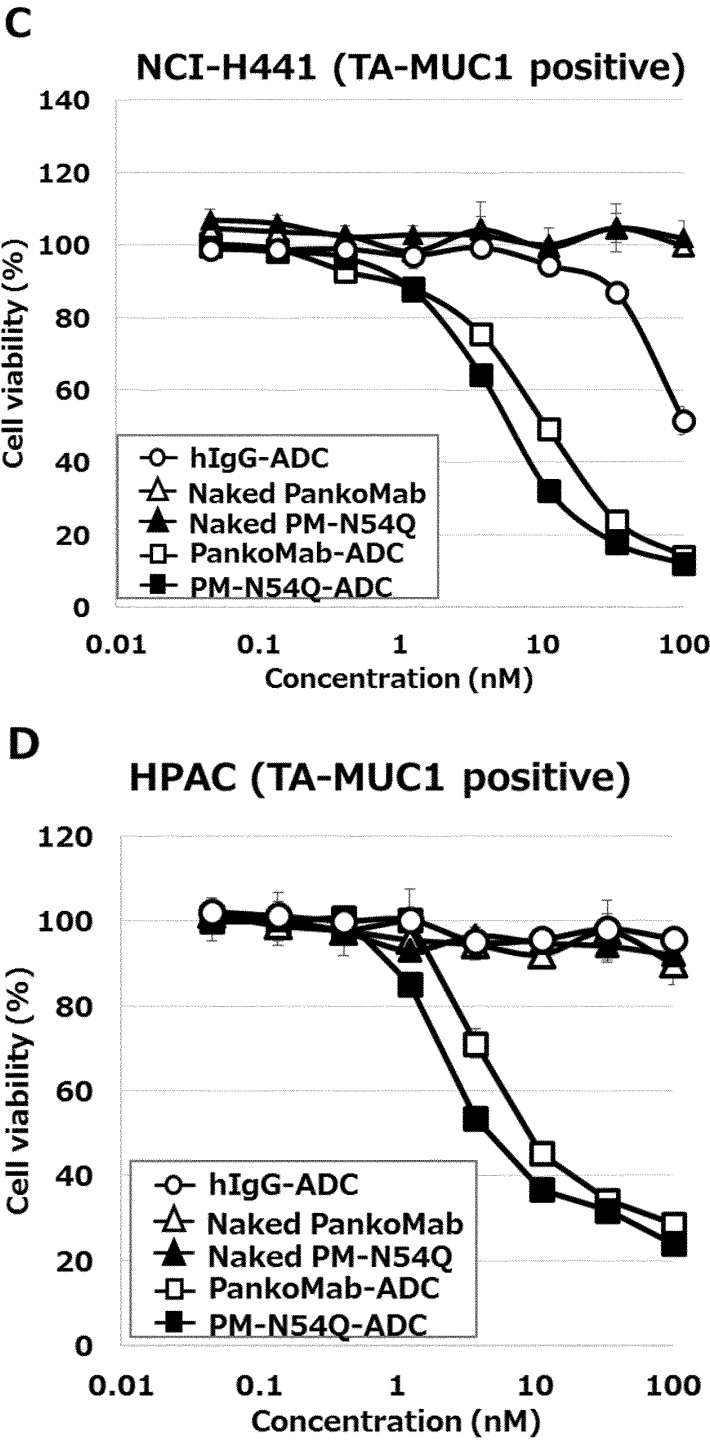


Figure 9

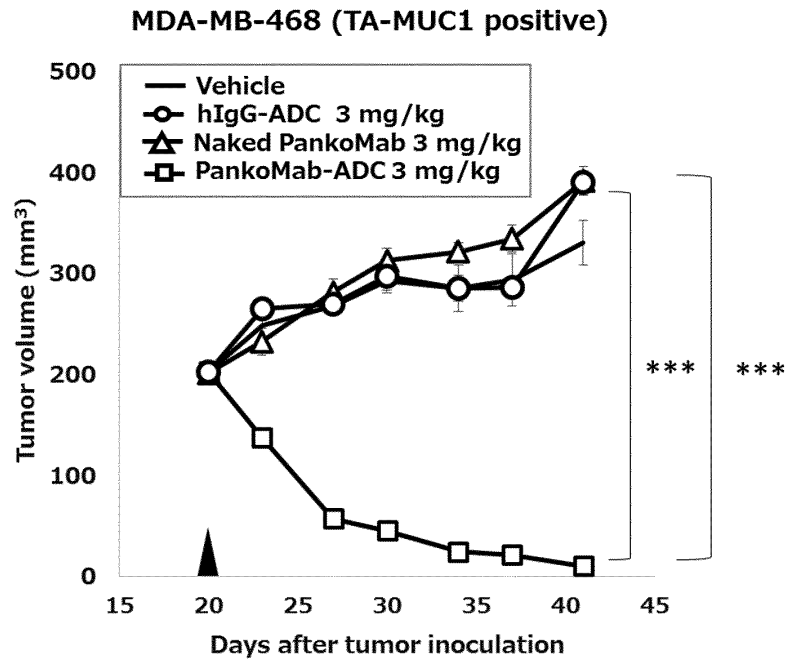


Figure 10

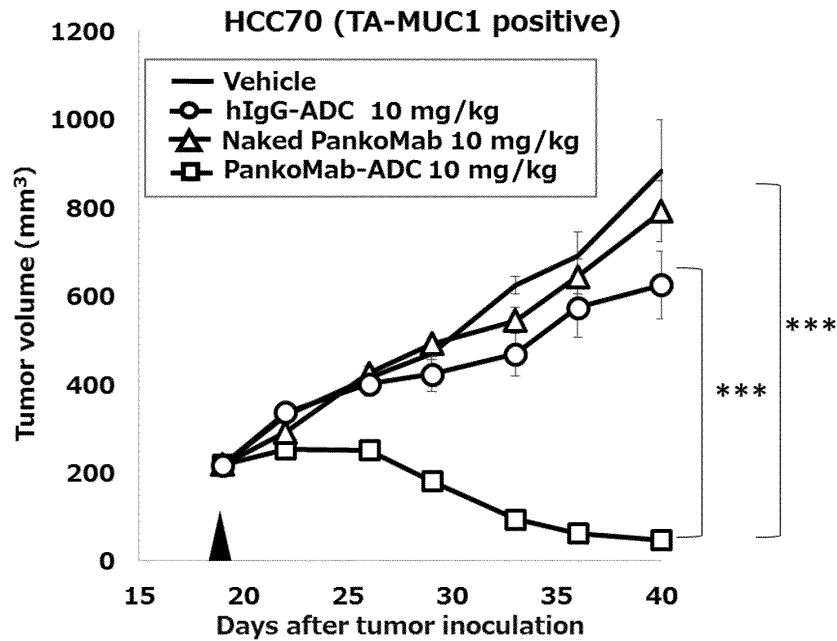


Figure 11

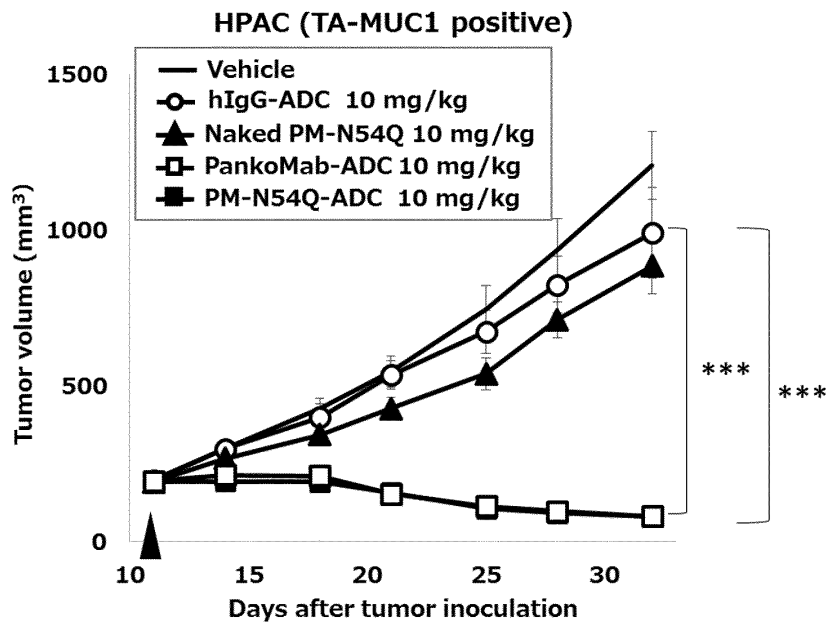


Figure 12

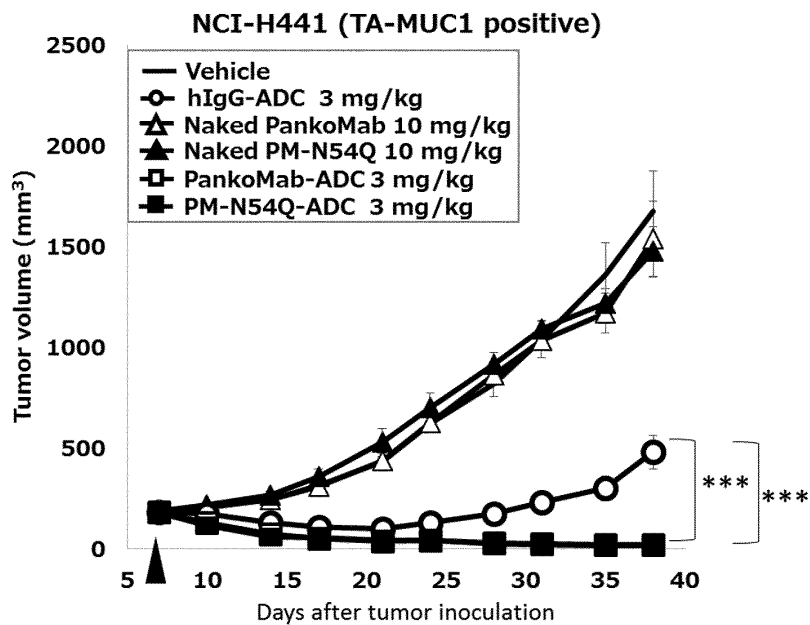


Figure 13

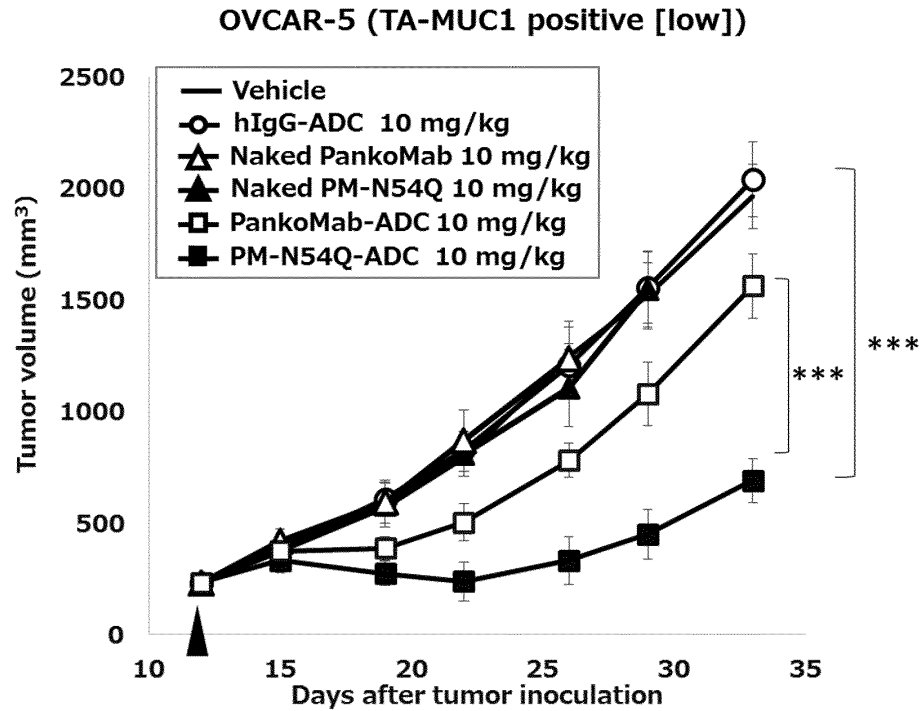


Figure 14

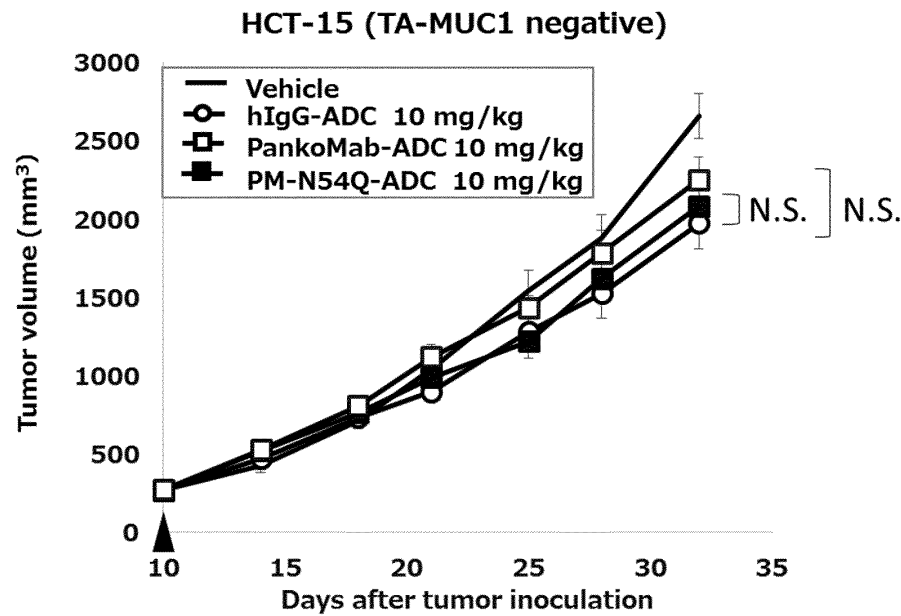


Figure 15

The amino acid sequence of the heavy chain of the humanized antibody N54Q (SEQ ID No: 22)

EVQLVESGGGLVQPGGSMRLSCVASGFPFSNYWMNWVRQAPGKGLEWVGEIRLKSNN^QYTTHY
 AESVKGRFTISRDDSKNSLYLQMNSLKTEDTAVYYCTRHYFDYWGQGT^LTVSSASTKGPS
 VFPLAPSSKSTSGGTAALGCLVKDYFPEPVT^SWNSGALTSGVHTFPAVLQSSGLYSLSSV^V
 T^VPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDK^THTCPPCPAPELLGGPSVFLFPPKPK
 DTL^MISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLT^VLVH
 QDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGF
 YPSDIAVEWESNGQPENNYK^TTPPVLDSDGSFFLYSKLTVDKSRWQQGNV^FSCSV^MHEGLHN
 HYTQKSLSLSPGK

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

Figure 16

The amino acid sequence of the light chain of the humanized antibodies N54Q and PankoMab (SEQ ID No: 16)

DIVMTQSPLSNPVT^PGPASISCRSSKSL^LHSNGITYFFWYLQKPGQSPQ^LLIYQMSNLASG
 VPDRFSGSGSGTDFTL^RISRVEADVGVYCAQNLELPPTFGQGTKEIKRTVAAPSVFIFP
 PSDEQLKSGTASV^VCLLN^FYPREAKVQWKVDNALQSGNSQESVTEQDSK^DSTYSL^SSTLT^L
 SKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

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

Figure 17

The amino acid sequence of the heavy chain of the humanized antibody PankoMab (SEQ ID No: 19)

EVQLVESGGGLVQPGGSMRLSCVASGFPFSNYWMNWVRQAPGKGLEWVGEIRLKSNN^NYTTHY
 AESVKGRFTISRDDSKNSLYLQMNSLKTEDTAVYYCTRHYFDYWGQGT^LTVSSASTKGPS
 VFPLAPSSKSTSGGTAALGCLVKDYFPEPVT^SWNSGALTSGVHTFPAVLQSSGLYSLSSV^V
 T^VPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDK^THTCPPCPAPELLGGPSVFLFPPKPK
 DTL^MISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLT^VLVH
 QDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGF
 YPSDIAVEWESNGQPENNYK^TTPPVLDSDGSFFLYSKLTVDKSRWQQGNV^FSCSV^MHEGLHN
 HYTQKSLSLSPGK

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

Figure 18

The amino acid sequence of the heavy chain of chimeric antibody PM N54Q (SEQ ID No: 23)

MKHLWFFLLLVAAAPRWVLSEVQLVESGGGLVQPGGSMRLSCVASGFPPFSNYWMNWVRQAPGK
GLEWVGEIRLKSQYTHHYAESVKGRFTISRDDSKNSLYLQMNSLKTEDTAVYYCTRHYFD
YWGQGTLLTVSSAKTTPPSVYPLAPGSAAQTNSMVTLGCLVKGYFPEPVTVTWNSGSLSSGV
HTFPAVLQSDLYTLSSSVTVPSSTWPSQTVTCNVAHPASSTKVDKKIVPRDCGCKPCICTVP
EVSSVFIFPPKPKDVLITITLTPKVTCTVVDISKDDPEVQFSWFVDDVEVHTAQTTPREEQIN
STFRSVSELPIMHQDWLNGKEFKCRVNSAAFPAPIEKTISKTKGRPKAPQVYTIPPPKEQMA
KDKVSLTCMITNFFPEDITVEWQWNGQPAENYKNTQPIMDTDGSYFVYSKLNQKSNWEAGN
TFTCSVLHEGLHNHHTTEKSLSHSPGK

secretory signal sequence: aa 1-19, variable region: aa 20-136, constant region: aa 137-460

Figure 19

The amino acid sequence of the light chain of chimeric antibody PM N54Q (SEQ ID No: 21)

MVLQTQVFISLLLWISGAYGDIVMTQSPLSNPVTGPGEPAISCRSSKSLHLSNGITYFFWYL
QKPGQSPQLLIYQMSNLASGVDPDRFSGSGSGTDFTLRISRVEAEDVGVYYCAQNLELPPTFG
QGTKVEIKRADAAPTVSIFPPSSEQLTSGGASVVCFLNNFYPKDINVKWKIDGSEKQNGVLN
SWTDQDSKDYSTYSMSSTLTTLTKDEYERHNSYTCEATHKTSTSPIVKSFNRNEC

secretory signal sequence: aa 1-20, variable region: aa 21-133, constant region: aa 134-239