

Figure 1

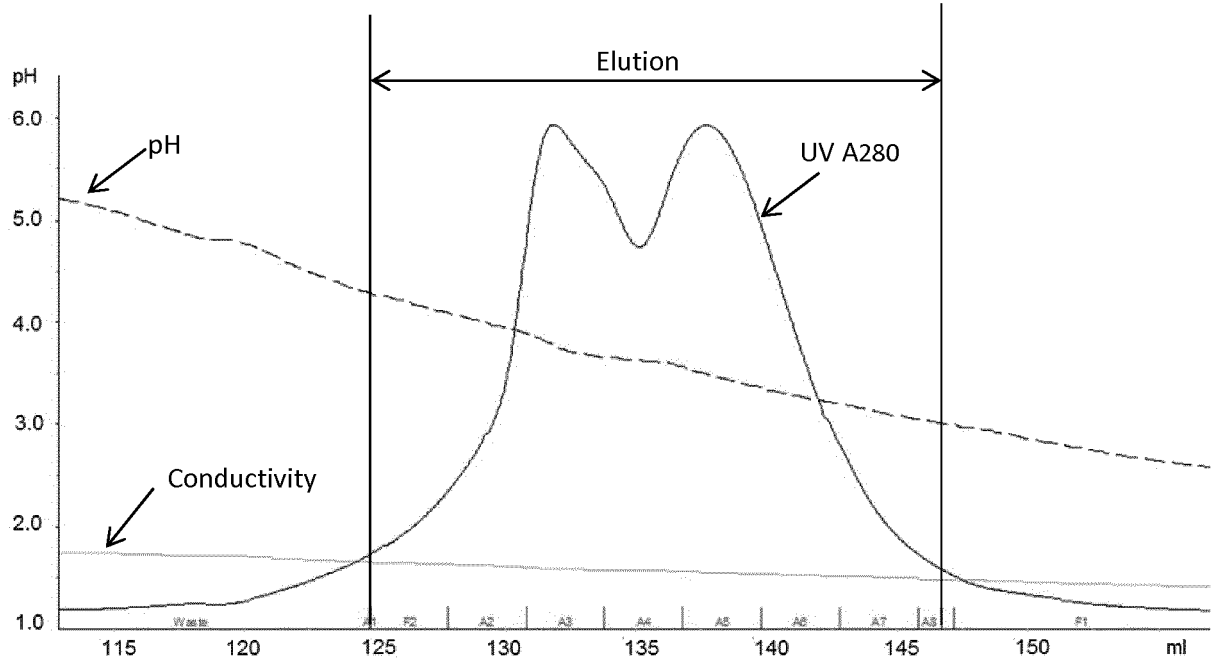


Figure 2

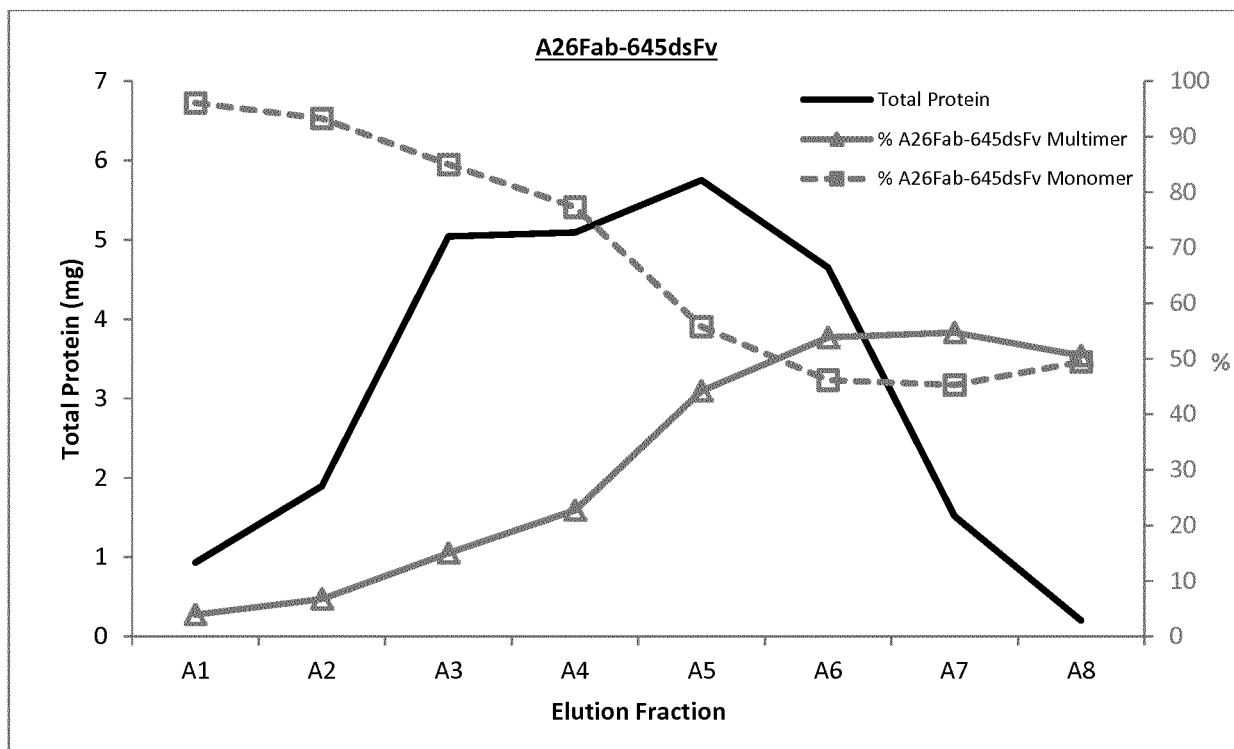


Figure 3

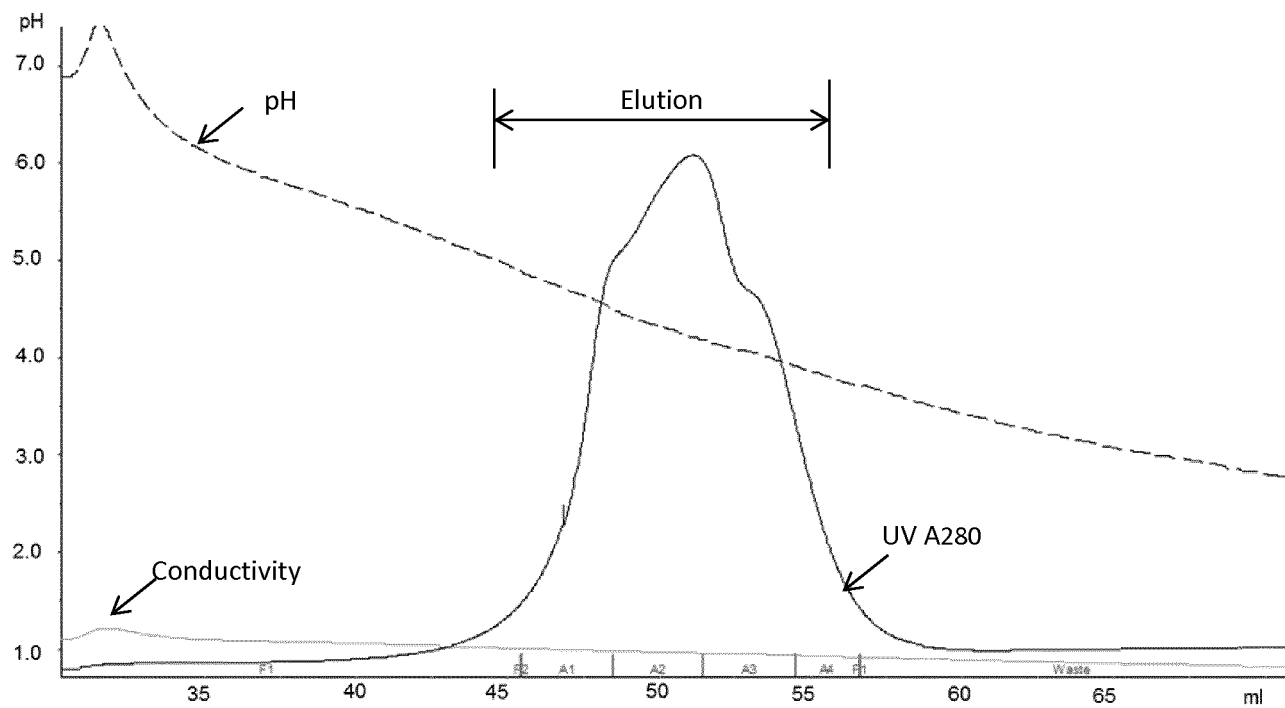


Figure 4

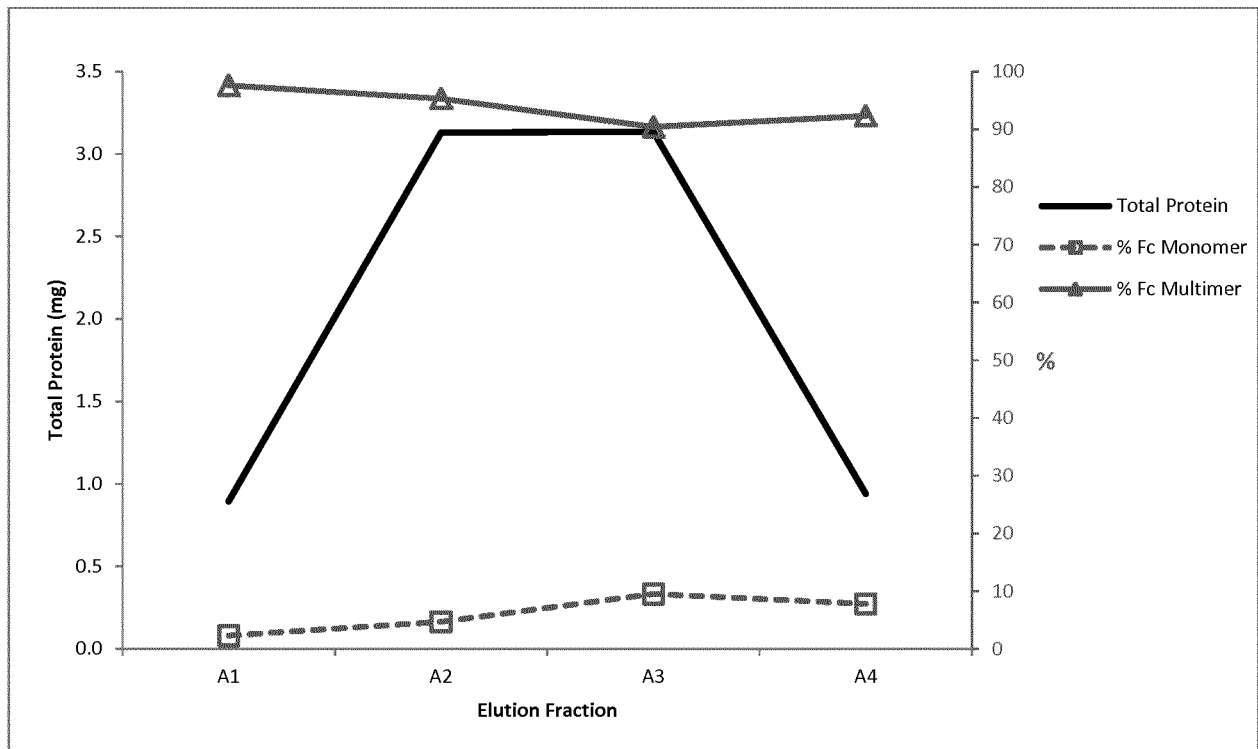


Figure 5

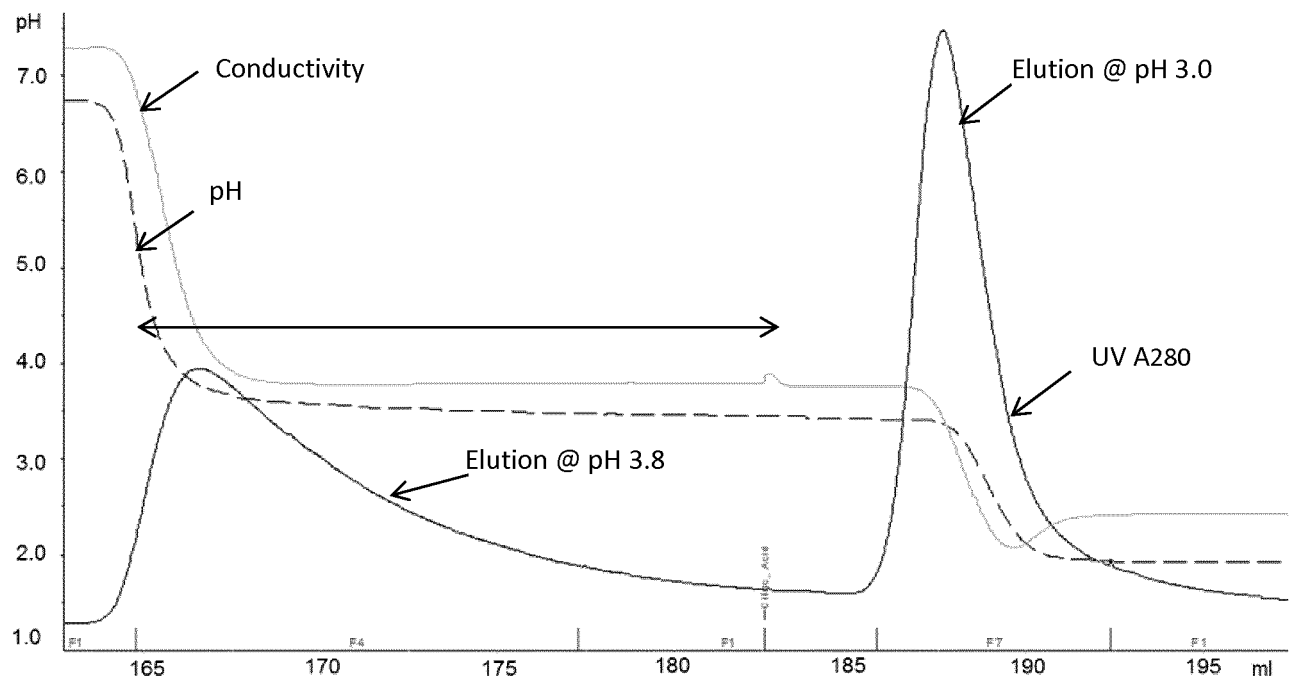


Figure 6

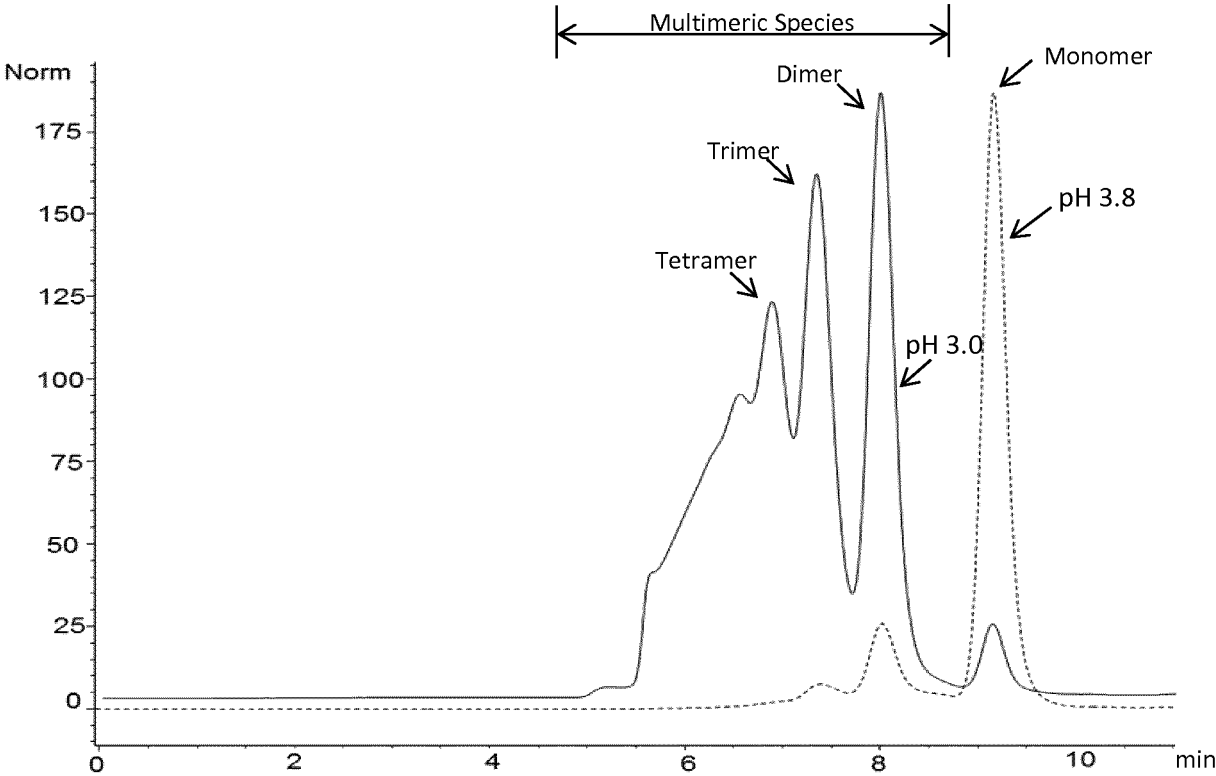
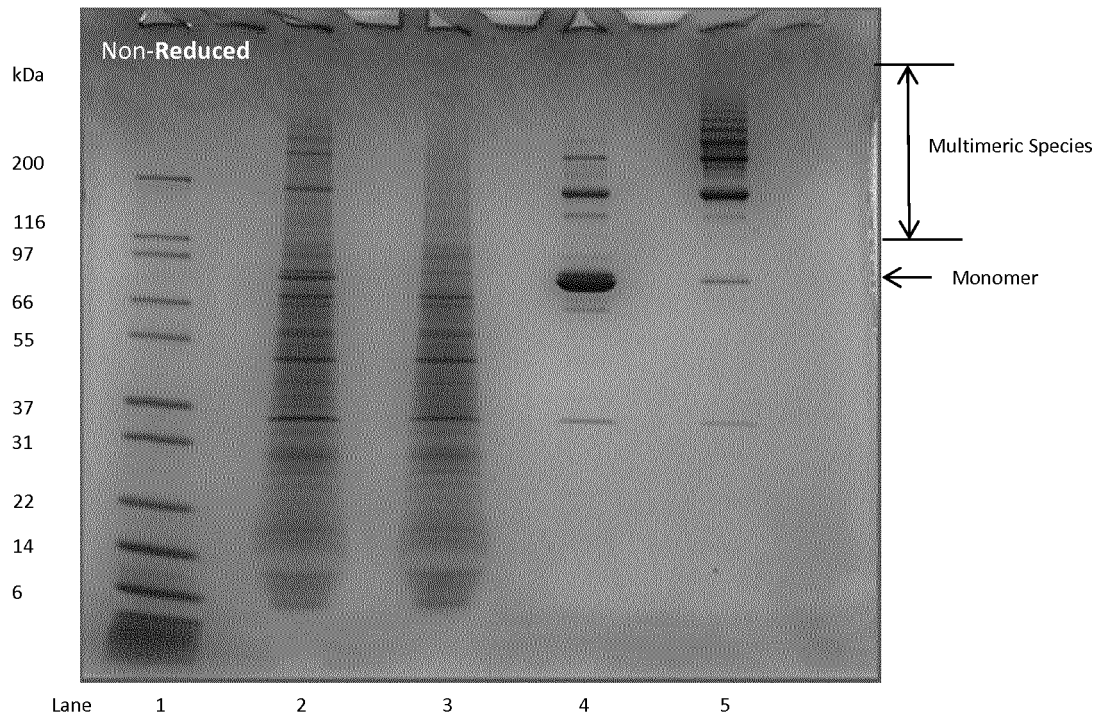
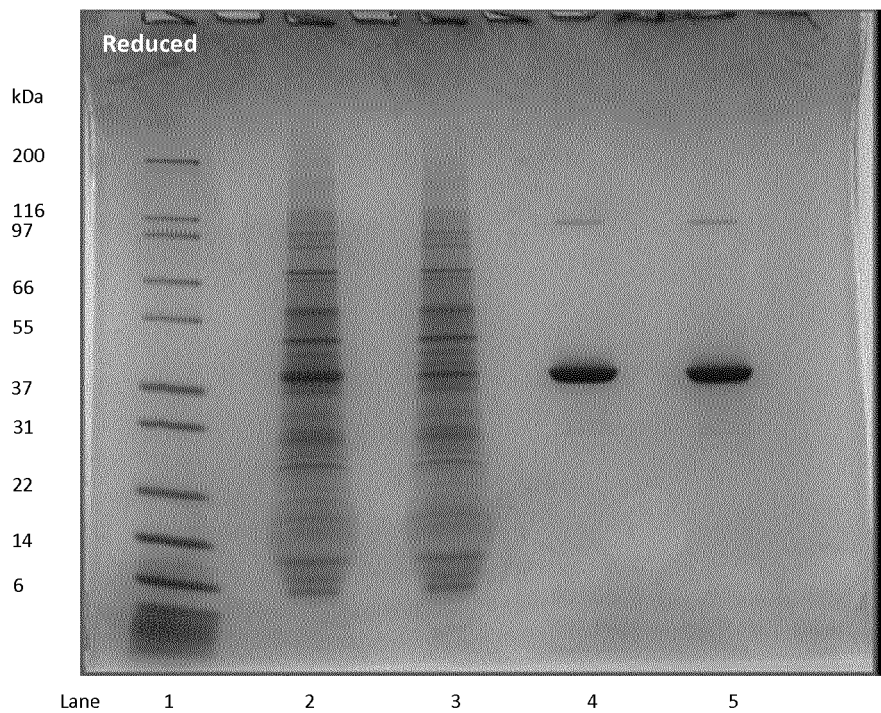


Figure 7



Lane	Sample
1	Molecular Weight Markers (Novex Mk12)
2	MabSelect Load - Clarified Cell Culture Supernatant
3	MabSelect Flowthrough
4	Elution pH 3.8
5	Elution pH 3.0

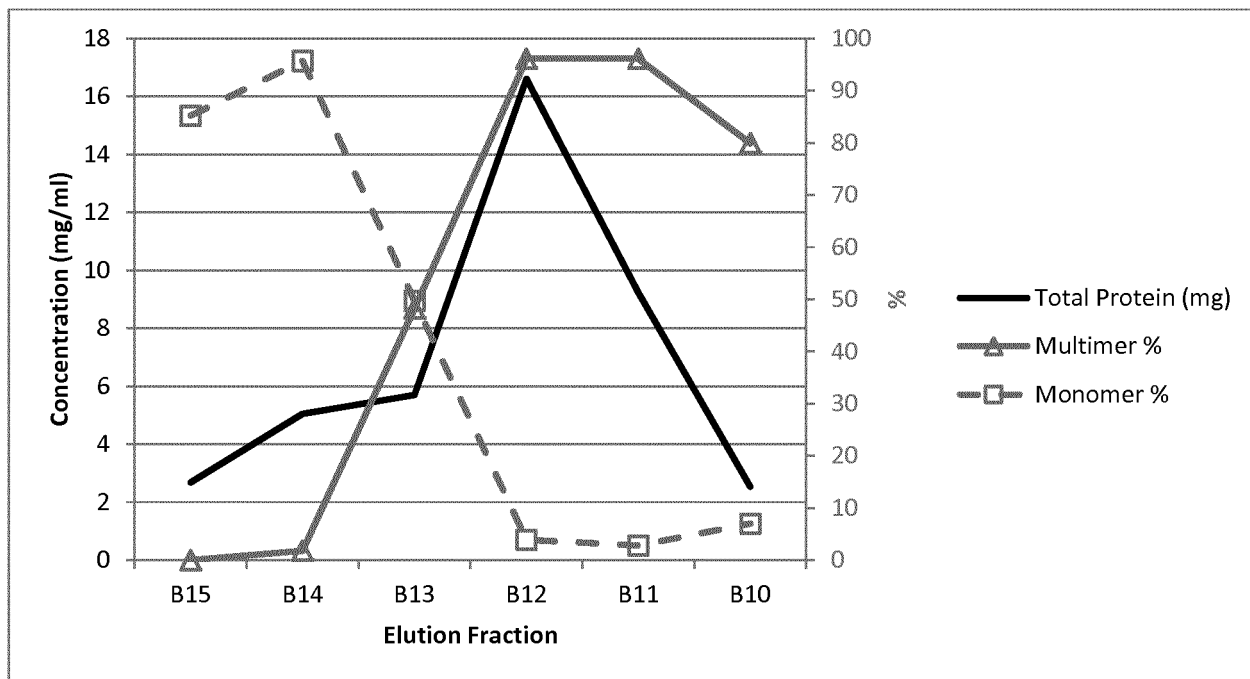
Figure 8



Lane	Sample
1	Molecular Weight Markers (Novex Mk12)
2	MabSelect Load - Clarified Cell Culture Supernatant
3	MabSelect Flowthrough
4	Elution pH 3.8
5	Elution pH 3.0

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Figure 9



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Figure 10

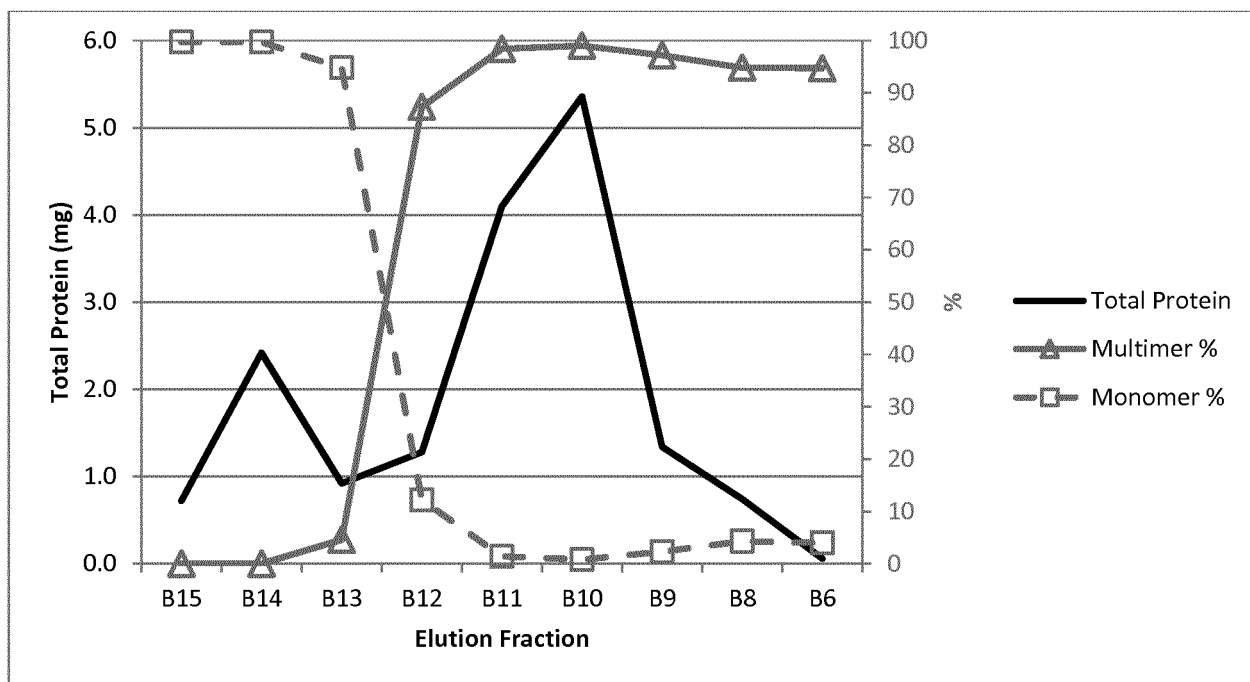


Figure 11

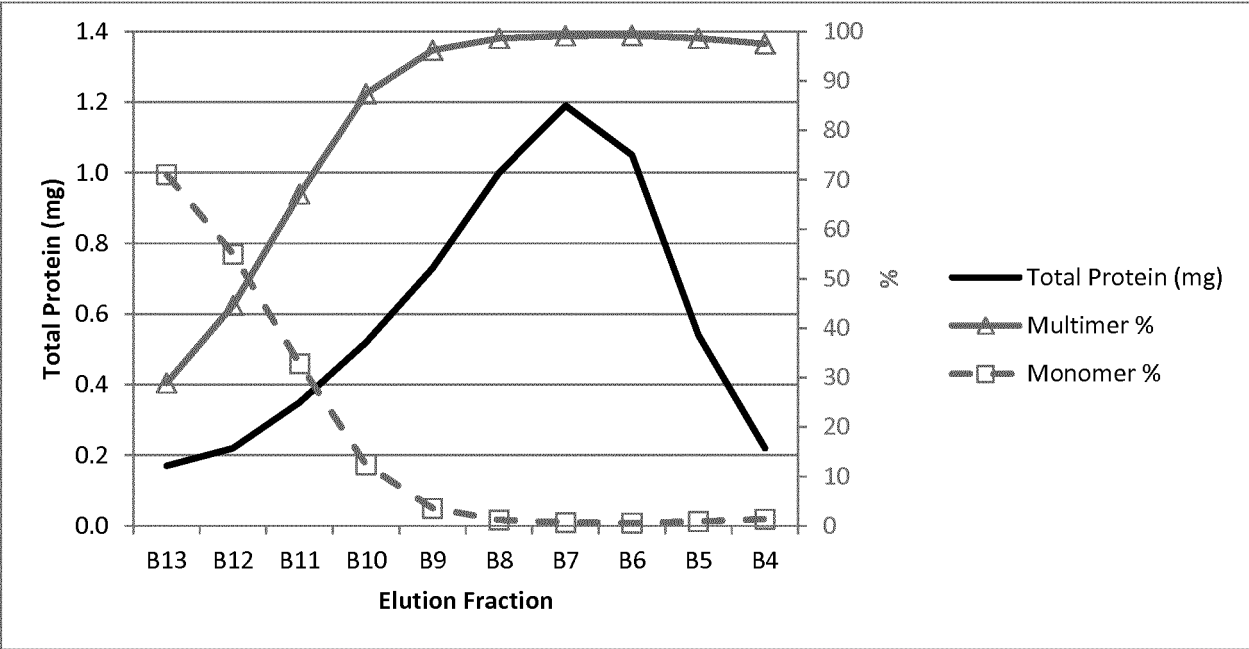
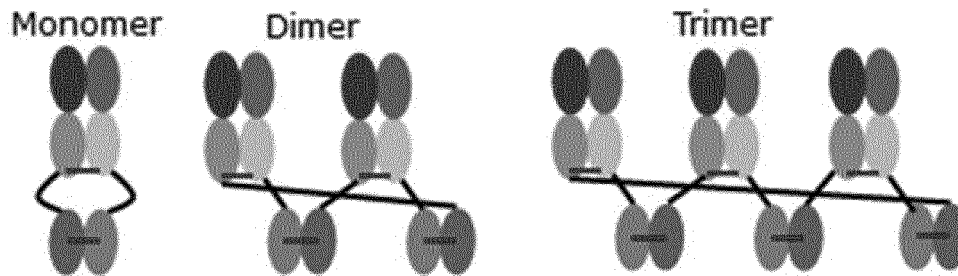
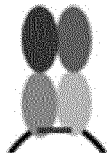


Figure 12



Fab = Heavy and Light Chain of Fab with a disulfide bond between the heavy and light chain and linkers joined to C-terminus of the constant region of the heavy chain and light chain to join to the dsFv



dsFv = disulfide stabilised Fv and linkers to join to the Fab

Figure 13

(a) Light chain variable region of antibody A26 specific to OX40 (SEQ ID NO:7)

DIQMTQSPSSLSASVGDRVTITCRATQSIYNALAWYQQKPGKAPKLLIYNANTLHTGVPSRFSA
SGSGTDSLTLTISSLQPEDFATYYCQQYYDYPLTFGGGTKVEIKR

(b) Heavy chain variable region of antibody A26 specific to OX40 (SEQ ID NO:8)

EVQLVESGGGLVQPGGSLRLSCAASGFTFTNYGIHWIRQAPGKGLEWVASISPSGGLTYRDSV
KGRFTISRDDAKNSPYLQMNSLRAEDTAVYYCATGGEGIFDYWGQGTLVTVSS

(c)

CDRH1: NYGIH (SEQ ID NO:1)
CDRH2: SISPSGGLTYRDSVKG (SEQ ID NO:2)
CDRH3: GGEGIFDY (SEQ ID NO:3)
CDRL1: RATQSIYNALA (SEQ ID NO:4)
CDRL2: NANTLHT (SEQ ID NO:5)
CDRL3: QQYYDYPLT (SEQ ID NO:6)

(d) Light chain of anti-OX40 antibody Fab component (SEQ ID NO:9)

DIQMTQSPSSLSASVGDRVTITCRATQSIYNALAWYQQKPGKAPKLLIYNANTLHTGVPSRFSA
SGSGTDSLTLTISSLQPEDFATYYCQQYYDYPLTFGGGTKVEIKRTVAAPSVFIFPPSDEQLKSG
TASVVCLLNFPYPREAKVQWKVDNALQSGNSQESVTEQDSKDSSTLSSTLTLSKADYEKHKVY
ACEVTHQGLSSPVTKSFNRGEC

(e) Heavy chain of anti-OX40 antibody Fab component (SEQ ID NO:10)

EVQLVESGGGLVQPGGSLRLSCAASGFTFTNYGIHWIRQAPGKGLEWVASISPSGGLTYRDSV
KGRFTISRDDAKNSPYLQMNSLRAEDTAVYYCATGGEGIFDYWGQGTLVTVSSASTKGPSVFPL
APSSKSTSGGTAAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVTPSSS
LGTQTYICNVNHKPSNTKVDKKVEPKSC

Figure 14**(a) Heavy chain of anti-albumin Fv component (SEQ ID NO:11)**

EVQLLES GGGGLVQPGGSLRLSCAVSGIDLSNYAINWVRQAPGKCLEWIGIIWASGTTFYATWAKGRFTISRDN SKNT
VYLQMNSLRAEDTAVYYCARTVPGYSTAPYFDLWGQGT LVTVSS

(b) Light chain of anti-albumin Fv component (SEQ ID NO:12)

DIQMTQSPSSVSASVGDRV TITCQSSPSVWSNFLSWYQQKPGKAPKLLIYEASKLTSGVPSRFSGSGSGTDFTLTIS
SLQPEDFATYYCGGGYSSISDTTFGCGTKVEIKRT

(c) Linker 1 (SEQ ID NO:13)

SGGGSGGGGTGGGGS

(d) Linker 2 (SEQ ID NO:14)

GGGSGGGSGGGGS

(e) A26 Fab Heavy-(G4S,G4T,G4S)-645dsFv(gH5) (SEQ ID NO:15)

EVQLVESGGGLVQPGGSLRLSCAASGFTFTNYGIHWIRQAPGKLEWVASISPSGGLTYRDSVKGRFTISRDDAKN
SPY LQMNSLRAEDTAVYYCATGGEGIFDYWGQGT LVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPV
TVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCSGGGSGGGGT
GGGGSEVQLLES GGGGLVQPGGSLRLSCAVSGIDLSNYAINWVRQAPGKCLEWIGIIWASGTTFYATWAKGRFTISR D
NSKNTVYLQMNSLRAEDTAVYYCARTVPGYSTAPYFDLWGQGT LVTVSS

(f) A26 Fab Light-(3xG4S)-645dsFv(gL4) (SEQ ID NO:16)

DIQMTQSPSSLSASVGDRV TITCRATQSIYNALAWYQQKPGKAPKLLIYNANTLHTGVPSRFSASGSGTDSTLTIS S
LQPEDFATYYCQYYDYPLTFGGGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNFFYPREAKVQWKVDNAL
QSGNSQESVTEQDSKDS TYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGECGGGGSGGGSGGGGSDI
QMTQSPSSVSASVGDRV TITCQSSPSVWSNFLSWYQQKPGKAPKLLIYEASKLTSGVPSRFSGSGSGTDFTLTIS SL
QPEDFATYYCGGGYSSISDTTFGCGTKVEIKRT

Figure 15**(a) 645gH1 heavy chain variable domain (SEQ ID NO:17)**

EVQLLES GGGGLVQP GGSRLRLSCAVSGIDLSNYAINWVRQAPGKCLEWIGIIWASGTTFYATWAKGRFTISR DSTTVY
LQMNSLRAEDTAVYYCARTVPGYSTAPYFDLWGQGTLVTVSS

(b) 645gL1 light chain variable domain (SEQ ID NO:18)

DIVMTQSPSSVSASVGDRVTITCQSSPSVWSNFLSWYQQKPGKAPKLLIYEASKLTSGVPSRFKSGSGTDFLTITIS
SLQPEDFATYYCGGYSISDTTFGCGTKVEIK

(c) A26 Fab Heavy-(3xG4S)-645dsFv(gH1) (SEQ ID NO:19)

EVQLVESGGGLVQP GGSRLRLSCAASGFTFTNYGIHWIRQAPGKLEWVASISPSGGLTYRDSVKGRFTISRDDAKN
SPYLQMNSLRAEDTAVYYCATGGEGIFDYWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPV
TVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCSGGGGSGGGGS
GGGGSEVQLLES GGGGLVQP GGSRLRLSCAVSGIDLSNYAINWVRQAPGKCLEWIGIIWASGTTFYATWAKGRFTISR D
STTVY LQMNSLRAEDTAVYYCARTVPGYSTAPYFDLWGQGTLVTVSS

(d) A26 Fab Light-(3xG4S)-645dsFv(gL1) (SEQ ID NO:20)

DIQMTQSPSSLSASVGDRVTITCRATQSIYNALAWYQQKPGKAPKLLIYNANTLHTGVPSRFSASGSGTDSTLTISS
LQPEDFATYYCQYYDYPLTFGGGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNAL
QSGNSQESVTEQDSKDSSTLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGECSGGGGSGGGGSGGGGSD
IVMTQSPSSVSASVGDRVTITCQSSPSVWSNFLSWYQQKPGKAPKLLIYEASKLTSGVPSRFKSGSGTDFLTITIS
LQPEDFATYYCGGYSISDTTFGCGTKVEIK

Figure 16**a) DNA encoding Heavy chain A26-645(gH5) including *E.coli* OmpA leader (SEQ ID NO:21)**

ATGAAGAAGACTGCTATAGCGATCGCAGTGGCGCTAGCTGGTTTCGCCACCGTGGCGCAAGCTGAAGTTCAGCTGGT
CGAGTCTGGAGGCGGGCTTGTCCAGCCTGGAGGGAGCCTGCGTCTCTCTTGTGCAGCAAGCGGTTTCACGTTACCA
ACTACGGTATCCACTGGATTTCGTCAGGCACCAGGTAAAGGTCTGGAATGGGTAGCCTCTATCTCTCCGTCTGGTGGT
CTGACGTACTACCGTGACTCTGTCAAAGGTCGTTTCACCATCTCTCGTGATGACGCGAAAACTCTCCGTACCTGCA
AATGAACCTCTGCGTGCAGAAGATAACCGCAGTGTACTACTGCGCTACTGGTGGTGAAGGTATCTTCGACTACTGGG
GTCAGGGTACCCTGGTAACTGTCTCGAGCGCTTCTACAAAGGGCCCAAGCGTTTTCCCACTGGCTCCGTCTCTAAA
TCCACCTCTGGTGGTACGGCTGCACTGGGTTGCCTGGTGAAAGACTACTTCCCAGAACCAGTTACCGTGTCTTGAA
CTCTGGTGCCTGACCTCTGGTGTTCACACCTTTCCAGCAGTTCTCCAGTCTTCTGGTCTGTACTCCCTGTCTAGCG
TGGTTACCGTTCCGTCTTCTTCTCTGGGTACTCAGACCTACATCTGCAACGTCAACCACAAACCGTCCAACACCAAG
GTCGACAAAAAAGTCGAGCCGAAATCCTGTAGTGGAGGTGGGGCTCAGGTGGAGGCGGGACCGGTGGAGGTGGCAG
CGAGGTTCAACTGCTTGAGTCTGGAGGAGGCCTAGTCCAGCCTGGAGGGAGCCTGCGTCTCTCTTGTGCAGTAAGCG
GCATCGACCTGAGCAATTACGCCATCAACTGGGTGAGACAAGCTCCGGGGAAGTGTTTAGAATGGATCGGTATAATA
TGGGCCAGTGGGACGACCTTTTATGCTACATGGGCGAAAGGAAGGTTTACAATTAGCCGGGACAATAGCAAAAACAC
CGTGTATCTCCAAATGAACCTCTTGCAGCAGAGGACACGGCGGTGTACTATTGTGCTCGCACTGTCCCAGGTTATA
GCACTGCACCCTACTTCGATCTGTGGGGACAAGGGACCCTGGTGACTGTTTCAAGTTAA

b) DNA encoding Heavy chain A26-645(gH5) (SEQ ID NO:22)

GAAGTTCAGCTGGTTCGAGTCTGGAGGCGGGCTTGTCCAGCCTGGAGGGAGCCTGCGTCTCTCTTGTGCAGCAAGCGG
TTTCACGTTACCAACTACGGTATCCACTGGATTTCGTCAGGCACCAGGTAAAGGTCTGGAATGGGTAGCCTCTATCT
CTCCGTCTGGTGGTCTGACGTACTACCGTGACTCTGTCAAAGGTCGTTTCACCATCTCTCGTGATGACGCGAAAAAC
TCTCCGTACCTGCAAATGAACCTCTGCGTGCAGAAGATAACCGCAGTGTACTACTGCGCTACTGGTGGTGAAGGTAT
CTTCGACTACTGGGGTCAGGGTACCCTGGTAACTGTCTCGAGCGCTTCTACAAAGGGCCCAAGCGTTTTCCCACTGG
CTCCGTCTCTAAATCCACCTCTGGTGGTACGGCTGCACTGGGTTGCCTGGTGAAAGACTACTTCCCAGAACCAGTT
ACCGTGTCTTGGAACCTCTGGTGCCTGACCTCTGGTGTTCACACCTTTCCAGCAGTTCTCCAGTCTTCTGGTCTGTA
CTCCCTGTCTAGCGTGGTTACCGTTCCGTCTTCTTCTCTGGGTACTCAGACCTACATCTGCAACGTCAACCACAAAC
CGTCCAACACCAAGGTGACAAAAAAGTCGAGCCGAAATCCTGTAGTGGAGGTGGGGCTCAGGTGGAGGCGGGACC
GGTGGAGGTGGCAGCGAGGTTCAACTGCTTGAGTCTGGAGGAGGCCTAGTCCAGCCTGGAGGGAGCCTGCGTCTCTC
TTGTGCAGTAAGCGGCATCGACCTGAGCAATTACGCCATCAACTGGGTGAGACAAGCTCCGGGGAAGTGTTTAGAAT
GGATCGGTATAATATGGGCCAGTGGGACGACCTTTTATGCTACATGGGCGAAAGGAAGGTTTACAATTAGCCGGGAC
AATAGCAAAAACACCGTGTATCTCCAAATGAACCTCTTGCAGCAGAGGACACGGCGGTGTACTATTGTGCTCGCAC
TGTCCCAGGTTATAGCACTGCACCCTACTTCGATCTGTGGGGACAAGGGACCCTGGTGACTGTTTCAAGTTAA

Figure 17**a) DNA encoding Light chain A26-645(gL4) including E.coli OmpA leader (SEQ ID NO:23)**

ATGAAAAAGACAGCTATCGCAATTGCAGTGGCGTTGGCTGGTTTCGCGACCGTTGCGCAAGCTGATATCCAGATGAC
CCAGAGCCCAAGCAGTCTCTCCGCCAGCGTAGGCGATCGTGTGACTATTACCTGTCTGTGCAACCCAGAGCATCTACA
ACGCTCTGGCTTGGTATCAGCAGAAACCGGGTAAAGCGCCAAAACCTCCTGATCTACAACGGAACACTCTGCATACT
GGTGTTCGCTCTCGTTTCTCTGCGTCTGGTTCTGGTACGGACTCTACTCTGACCATCTCCTCTCTCCAGCCGGAAGA
TTTCGCGACCTACTACTGCCAGCAGTACTACGATTACCCACTGACGTTTGGTGGTGGTACCAAAGTTGAGATCAAAC
GTACGGTTGCAGCTCCATCCGTCTTCATCTTTCCACCGTCTGACGAACAGCTCAAATCTGGTACTGCTTCTGTCTGTT
TGCCCTCCTGAACAACCTTCTATCCGCGTGAAGCGAAAGTCCAGTGGAAAGTCGACAACGCACTCCAGTCTGGTAACTC
TCAGGAATCTGTGACCGAACAGGACTCCAAAGACTCCACCTACTCTCTGTCTAGCACCCCTGACTCTGTCCAAAGCAG
ACTACGAGAAACACAAAGTGTACGCTTGCGAAGTTACCCATCAGGGTCTGAGCTCTCCGGTTACCAAATCCTTTAAT
AGAGGGGAGTGTGGTGGCGGTGGCAGTGGTGGTGGAGGTTCCGGAGGTGGCGGTTTCAGACATACAAATGACCCAGAG
TCCTTCATCGGTATCCGCGTCCGTTGGCGATAGGGTGACTATTACATGTCAAAGCTCTCCTAGCGTCTGGAGCAATT
TTCTATCCTGGTATCAACAGAAACCGGGGAAGGCTCCAAAACCTTCTGATTTATGAAGCCTCGAAACTCACCAGTGGA
GTTCCGTCAAGATTTCAGTGGCTCTGGATCAGGGACAGACTTCACGTTGACAATCAGTTTCGCTGCAACCAGAGGACTT
TGCGACCTACTATTGTGGTGGAGGTTACAGTAGCATAAGTGATACGACATTTGGGTGCGGTACTAAGGTGGAAATCA
AACGTACCTAA

b) DNA encoding Light chain A26-645(gL4) (SEQ ID NO:24)

GATATCCAGATGACCCAGAGCCCAAGCAGTCTCTCCGCCAGCGTAGGCGATCGTGTGACTATTACCTGTCTGTGCAAC
CCAGAGCATCTACAACGCTCTGGCTTGGTATCAGCAGAAACCGGGTAAAGCGCCAAAACCTCCTGATCTACAACGCGA
ACACTCTGCATACTGGTGTTCGCTCTCGTTTCTCTGCGTCTGGTTCTGGTACGGACTCTACTCTGACCATCTCCTCT
CTCCAGCCGGAAGATTTTCGCGACCTACTACTGCCAGCAGTACTACGATTACCCACTGACGTTTGGTGGTGGTACCAA
AGTTGAGATCAAACGTACGTTGCAGCTCCATCCGTCTTCATCTTTCCACCGTCTGACGAACAGCTCAAATCTGGTA
CTGCTTCTGTCTGTTTGCCTCCTGAACAACCTTCTATCCGCGTGAAGCGAAAGTCCAGTGGAAAGTCGACAACGCACTC
CAGTCTGGTAACTCTCAGGAATCTGTGACCGAACAGGACTCCAAAGACTCCACCTACTCTCTGTCTAGCACCCCTGAC
TCTGTCCAAAGCAGACTACGAGAAACACAAAGTGTACGCTTGCGAAGTTACCCATCAGGGTCTGAGCTCTCCGGTTA
CCAAATCCTTTAATAGAGGGGAGTGTGGTGGCGGTGGCAGTGGTGGTGGAGGTTCCGGAGGTGGCGGTTTCAGACATA
CAAATGACCCAGAGTCCTTCATCGGTATCCGCGTCCGTTGGCGATAGGGTGACTATTACATGTCAAAGCTCTCCTAG
CGTCTGGAGCAATTTCTATCCTGGTATCAACAGAAACCGGGGAAGGCTCCAAAACCTTCTGATTTATGAAGCCTCGA
AACTCACCAGTGGAGTTCGTCAGATTTCAGTGGCTCTGGATCAGGGACAGACTTCACGTTGACAATCAGTTTCGCTG
CAACCAGAGGACTTTGCGACCTACTATTGTGGTGGAGGTTACAGTAGCATAAGTGATACGACATTTGGGTGCGGTAC
TAAGGTGGAAATCAAACGTACCTAA

Figure 18**a) DNA encoding Heavy chain A26-645(gH5) including B72.3 leader sequence (SEQ ID NO:25)**

ATGGAATGGTCTTGGGTCTTCCTGTTTTTCTTTCTGTACAAACCGGGGTGCACAGCGAGGTGCAGCTCGTCGAGTC
TGGAGGCGGGCTTGTCCAGCCTGGAGGGAGCCTGCGTCTCTCTTGTGCAGCAAGCGGTTTCACGTTACCAACTACG
GTATCCACTGGATTTCGTAGGCACCAGGTAAAGGTCTGGAATGGGTAGCCTCTATCTCTCCGTCTGGTGGTCTGACG
TACTACCGTGACTCTGTCAAAGGTCGTTTCACCATCTCTCGTGATGACGCGAAAACTCTCCGTACCTGCAGATGAA
CTCTCTGCGTGCAGAAGATAACCGCAGTGTACTACTGCGCTACTGGTGGTGAAGGTATCTTCGACTACTGGGGTCAGG
GTACCCTGGTAACTGTCTCAAGCGCTTCTACAAAGGGCCCATCGGTCTTCCCCCTGGCACCCCTCCTCCAAGAGCACC
TCTGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCCGAACCGGTGACGGTGTCTGTGGAACCTCAGG
CGCCCTGACCAGCGGCGTGCACACCTTCCCGGTGTCTACAGTCCTCTGGACTCTACTCCCTCAGCAGCGTGGTGA
CCGTGCCCTCCAGCAGCTTGGGCACCCAGACCTACATCTGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGGAC
AAGAAAGTTGAGCCCAAATCTTGTTCCGGAGGTGGCGGTTCCGGAGGTGGCGGTACCGGTGGCGGTGGATCCGAAGT
CCAGCTGCTTGAATCCGGAGGCGGACTCGTGCAGCCCGGAGGCAGTCTTCGCTTGTCTGCGCTGTATCTGGAATCG
ACCTGAGCAATTACGCCATCAACTGGGTGAGACAGGCACCTGGGAAATGCCTCGAATGGATCGGCATTATATGGGCT
AGTGGGACGACCTTTTATGCTACATGGGCGAAGGGTAGATTACAATCTCACGGGATAATAGTAAGAACACAGTGTA
CCTGCAGATGAACTCCCTGCGAGCAGAGGATAACCGCGTTTACTATTGTGCTCGCACTGTCCCAGGTTATAGCACTG
CACCTACTTTGATCTGTGGGGGCAGGGCACTCTGGTCACCGTCTCGAGTTGA

b) DNA encoding Heavy chain A26-645(gH5) (SEQ ID NO:26)

GAGGTGCAGCTCGTCGAGTCTGGAGGCGGGCTTGTCCAGCCTGGAGGGAGCCTGCGTCTCTCTTGTGCAGCAAGCGG
TTTCACGTTACCAACTACGGTATCCACTGGATTTCGTAGGCACCAGGTAAAGGTCTGGAATGGGTAGCCTCTATCT
CTCCGTCTGGTGGTCTGACGTACTACCGTGACTCTGTCAAAGGTCGTTTCACCATCTCTCGTGATGACGCGAAAAAC
TCTCCGTACCTGCAGATGAACTCTCTGCGTGCAGAAGATAACCGCAGTGTACTACTGCGCTACTGGTGGTGAAGGTAT
CTTCGACTACTGGGGTCAGGGTACCCTGGTAACTGTCTCAAGCGCTTCTACAAAGGGCCCATCGGTCTTCCCCCTGG
CACCTCCTCCAAGAGCACCTCTGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCCGAACCGGTG
ACGGTGTCTGTGGAACCTCAGGCGCCCTGACCAGCGGCGTGCACACCTTCCCGGTGTCTACAGTCCTCTGGACTCTA
CTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCACCCAGACCTACATCTGCAACGTGAATCACAAGC
CCAGCAACACCAAGGTGGACAAGAAAGTTGAGCCCAAATCTTGTTCCGGAGGTGGCGGTTCCGGAGGTGGCGGTACC
GGTGGCGGTGGATCCGAAGTCCAGCTGCTTGAATCCGGAGGCGGACTCGTGCAGCCCGGAGGCAGTCTTCGCTTGTG
CTGCGCTGTATCTGGAATCGACCTGAGCAATTACGCCATCAACTGGGTGAGACAGGCACCTGGGAAATGCCTCGAAT
GGATCGGCATTATATGGGCTAGTGGGACGACCTTTTATGCTACATGGGCGAAGGGTAGATTACAATCTCACGGGAT
AATAGTAAGAACACAGTGTAACCTGCAGATGAACTCCCTGCGAGCAGAGGATAACCGCGTTTACTATTGTGCTCGCAC
TGTCACAGGTTATAGCACTGCACCTACTTTGATCTGTGGGGGCAGGGCACTCTGGTCACCGTCTCGAGTTGA

Figure 19**a) DNA encoding Light chain A26-645(gL4) including B72.3 leader sequence (SEQ ID NO:27)**

ATGTCAGTTCCACACAGGTGCTGGGCCTGCTTCTGTTGTGGCTCACCGATGCTAGGTGTGATATCCAGATGACCCA
GAGTCCAAGCAGTCTCTCCGCCAGCGTAGGCGATCGTGTGACTATTACCTGTCTGTGCAACCCAGAGCATCTACAACG
CTCTGGCTTGGTATCAGCAGAAACCGGGTAAAGCGCCAAAACCTCTGATCTACAACGCGAACACTCTGCATACCGGT
GTTCCGTCTCGTTTCTCTGCGTCTGGTTCTGGTACGGACTCTACTCTGACCATCTCCTCTCTGCAGCCGGAAGATTT
CGCGACCTACTACTGCCAGCAGTACTACGATTACCCACTGACGTTTGGTGGTGGTACCAAAGTTGAGATCAAACGTA
CGGTGGCTGCACCATCTGTCTTCATCTTCCCCCATCTGATGAGCAGTTGAAGTCTGGCACTGCCTCTGTTGTGTGC
CTGCTGAATAACTTCTACCCTAGAGAGGCCAAAGTCCAGTGGAAGGTGGATAACGCCCTTCAATCCGGAAACTCCCA
GGAGAGTGTCACTGAGCAGGACTCAAAGGACTCCACCTATAGCCTTAGCAGCACACTGACACTGAGCAAGGCTGACT
ACGAGAAACACAAGGTCTACGCCTGCGAAGTGACACATCAAGGCCTGAGCTCACCCGTGACAAAGAGCTTTAACAGG
GGAGAGTGTGGTGGAGGTGGCTCTGGCGGTGGTGGCTCCGGAGGCGGAGGAAGCGACATCCAGATGACCCAGAGCCC
TTCTCTGTAAAGCGCCAGTGTCTGGAGACAGAGTGACTATTACCTGCCAAAGCTCCCCCTCAGTCTGGTCCAATTTTC
TATCTTGGTACCAGCAAAAGCCCGGAAAGGCTCCTAAATTGCTGATCTACGAAGCAAGCAAACTCACCAGCGGCGTG
CCCAGCAGGTTTACGCGGCAGTGGGTCTGGAAGTACTTTACCCTGACAATCTCCTCACTCCAGCCCGAGGACTTCGC
CACCTATTACTGCGGTGGAGGTTACAGTAGCATAAGTGATACGACATTTGGATGCGGCCTAAAGTGGAATCAAGC
GTACCTGA

b) DNA encoding Light chain A26-645(gL4) (SEQ ID NO:28)

GATATCCAGATGACCCAGAGTCCAAGCAGTCTCTCCGCCAGCGTAGGCGATCGTGTGACTATTACCTGTCTGTGCAAC
CCAGAGCATCTACAACGCTCTGGCTTGGTATCAGCAGAAACCGGGTAAAGCGCCAAAACCTCCTGATCTACAACGCGA
ACACTCTGCATACCGGTGTTCCGTCTCGTTTCTCTGCGTCTGGTTCTGGTACGGACTCTACTCTGACCATCTCCTCT
CTGCAGCCGGAAGATTTCTGCGACCTACTACTGCCAGCAGTACTACGATTACCCACTGACGTTTGGTGGTGGTACCAA
AGTTGAGATCAAACGTACGGTGGCTGCACCATCTGTCTTCATCTTCCCCCATCTGATGAGCAGTTGAAGTCTGGCA
CTGCCTCTGTTGTGTGCCTGCTGAATAACTTCTACCCTAGAGAGGCCAAAGTCCAGTGGAAGGTGGATAACGCCCTT
CAATCCGGAAACTCCCAGGAGAGTGTCACTGAGCAGGACTCAAAGGACTCCACCTATAGCCTTAGCAGCACACTGAC
ACTGAGCAAGGCTGACTACGAGAAACACAAGGTCTACGCCTGCGAAGTGACACATCAAGGCCTGAGCTCACCCGTGA
CAAAGAGCTTTAACAGGGGAGAGTGTGGTGGAGGTGGCTCTGGCGGTGGTGGCTCCGGAGGCGGAGGAAGCGACATC
CAGATGACCCAGAGCCCTTCTCTGTAAAGCGCCAGTGTCTGGAGACAGAGTGACTATTACCTGCCAAAGCTCCCCCTC
AGTCTGGTCCAATTTTCTATCCTGGTACCAGCAAAAGCCCGGAAAGGCTCCTAAATTGCTGATCTACGAAGCAAGCA
AACTCACCAGCGGCGTGCCAGCAGTTTACGCGCAGTGGGTCTGGAAGTACTTTACCCTGACAATCTCCTCACTC
CAGCCCGAGGACTTCGCCACCTATTACTGCGGTGGAGGTTACAGTAGCATAAGTGATACGACATTTGGATGCGGCAC
TAAAGTGGAATCAAGCGTACCTGA

FIGURE 20 a**(a) Heavy chain variable domain of anti-albumin antibody (no ds) (SEQ ID NO:29)**

EVQLLESGGGLVQPGGSLRLSCAVSGIDLSNYAINWVRQAPGKLEWIGIIWASGTTFYATWAKGRFTISRDN SKNT
VYLQMNSLRAEDTAVYYCARTVPGYSTAPYFDLWGQGT LVTVSS

(b) Heavy chain variable domain of anti-albumin antibody (ds) (SEQ ID NO:30)

EVQLLESGGGLVQPGGSLRLSCAVSGIDLSNYAINWVRQAPGKCLEWIGIIWASGTTFYATWAKGRFTISRDN SKNT
VYLQMNSLRAEDTAVYYCARTVPGYSTAPYFDLWGQGT LVTVSS

(c) Light chain variable domain of anti-albumin antibody (no ds) (SEQ ID NO:31)

DIQMTQSPSSVSASVGDRTITCQSSPSVWSNFLSWYQQKPGKAPKLLIYEASKLTSGVPSRFSGSGSGTDFTLTIS
SLQPEDFATYYCGGYSISDITTFGGGTKVEIKRT

(d) Light chain variable domain of anti-albumin antibody (ds) (SEQ ID NO:32)

DIQMTQSPSSVSASVGDRTITCQSSPSVWSNFLSWYQQKPGKAPKLLIYEASKLTSGVPSRFSGSGSGTDFTLTIS
SLQPEDFATYYCGGYSISDITTFGCGTKVEIKRT

(e) Linker 1 (SEQ ID NO:33)

SGGGGSGGGGTGGGGS

(f) Linker 2 (SEQ ID NO:34)

GGGGSGGGGSGGGGS

645 gH5gL4 specific to albumin (SEQ ID NO: 35)

GAGGTTTCAGCTGCTGGAGTCTGGAGGCGGGCTTGTCAGCCTGGAGGGAGCCTGCGTCTCTCTTGTGCAGTAAGCGG
CATCGACCTGTCCAACCTACGCGATTAACCTGGGTACGTCAGGCACCGGGTAAAGGTCTGGAATGGATCGGCATCATCT
GGGCCTCTGGTACGACCTTCTACGCTACTTGGGCCAAAGGTCGTTTCACCATCTCCCGTGACAACCTCTAAAAACACC
GTGTACCTGCAGATGAACTCTCTGCGTGCGGAAGACACTGCGGTTTACTATTGCGCGCGTACCGTTCCGGGCTATTC
TACTGCACCGTACTTCGACCTGTGGGGTCAGGGTACTCTGGTTACCGTCTCGAGTGGAGGTGGCGGTTCTGGCGGTG
GCGGTTCCGGTGGCGGTGGATCGGGAGGTGGCGGTTCTGATATCCAGATGACCCAGAGTCCAAGCAGTGTTTCCGCC
AGCGTAGGCGATCGTGTGACTATTACCTGTCAGTCCTCTCCGAGCGTTTGGTCCAACCTTCTGAGCTGGTACCAGCA
GAAACCGGGTAAAGCCCCGAACTGCTGATCTACGAGGCGTCTAACTGACCTCTGGTGTACCGTCCCGTTTCTCTG
GCTCTGGCTCTGGTACGGACTTCACTCTGACCATCTCCTCTCTGCAGCCGGAAGACTTTGCAACGTACTACTGCGGT
GGTGGTTACTCTTCCATCTCTGACACCACGTTCCGGTGGAGGCACCAAAGTTGAAATCAAACGTACGCATCACCATCA
CCATCACCATCACCATCAC

645 gH5gL4 specific to albumin (SEQ ID NO: 36)

EVQLLESGGGLVQPGGSLRLSCAVSGIDLSNYAINWVRQAPGKLEWIGIIWASGTTFYATWAKGRFTISRDN SKNT
VYLQMNSLRAEDTAVYYCARTVPGYSTAPYFDLWGQGT LVTVSSGGGGSGGGGSGGGGSGGGGSDIQMTQSPSSVSA
SVGDRVTITCQSSPSVWSNFLSWYQQKPGKAPKLLIYEASKLTSGVPSRFSGSGSGTDFTLTISLQPEDFATYYCG
GGYSSISDITTFGGGTKVEIKRTHHHHHHHHHH

Figure 20 b**645 gH5gL4ds specific to albumin (SEQ ID NO: 37)**

GAGGTTTCAGCTGCTGGAGTCTGGAGGCGGGCTTGTCCAGCCTGGAGGGAGCCTGCGTCTCTCTTGTGCAGTAAGCGG
CATCGACCTGTCCAACCTACGCGATTAACTGGGTACGTCAGGCACCGGGTAAATGCCTGGAATGGATCGGCATCATCT
GGGCTCTGGTACGACCTTCTACGCTACTTGGGCCAAAGGTCGTTTCACCATCTCCCGTGACAACCTCTAAAAACACC
GTGTACCTGCAGATGAACTCTCTGCGTGCGGAAGACACTGCGGTTTACTATTGCGCGCGTACCGTTCCGGGCTATTCT
TACTGCACCGTACTTCGACCTGTGGGGTCAGGGTACTCTGGTTACCGTCTCGAGTGGAGGTGGCGGTTCTGGCGGTG
GCGGTTCCGGTGGCGGTGGATCGGGAGGTGGCGGTTCTGATATCCAGATGACCCAGAGTCCAAGCAGTGTTTCCGCC
AGCGTAGGCGATCGTGTGACTATTACCTGTGAGTCTCTCCGAGCGTTTGGTCCAACCTTCTGAGCTGGTACCAGCA
GAAACCGGGTAAAGCCCCGAACTGCTGATCTACGAGGCGTCTAACTGACCTCTGGTGTACCGTCCCGTTTCTCTG
GCTCTGGCTCTGGTACGGACTTCACTCTGACCATCTCCTCTCTGACCCGGAAGACTTTGCAACGTACTACTGCGGT
GGTGGTTACTCTTCCATCTCTGACACCAGTTTCGGTTGTGGCACCAAAGTTGAAATCAAACGTACGCATCACCATCA
CCATCACCATCACCATCAC

645 gH5gL4ds specific to albumin (SEQ ID NO: 38)

EVQLLESGLLVQPGGSLRLSCAVSGIDL SNYAINWVRQAPGKCLEWIGIIWASGTTFYATWAKGRFTISRDN SKNT
VYLQMNSLR AEDTAVYYCARTVPGYSTAPYFDLWGQGLVTVSSGGGSGGGSGGGSGGGSGGGSDIQMTQSPSSVSA
SVGDRVITITCQSSPSVWSNFLSWYQQKPGKAPKLLIYEASKLTSGVPSRFSGSGSGTDFTLTISLQPEDFATYYCG
GGYSSISDITTFGCGTKVEIKRTHHHHHHHHHH

Figure 21

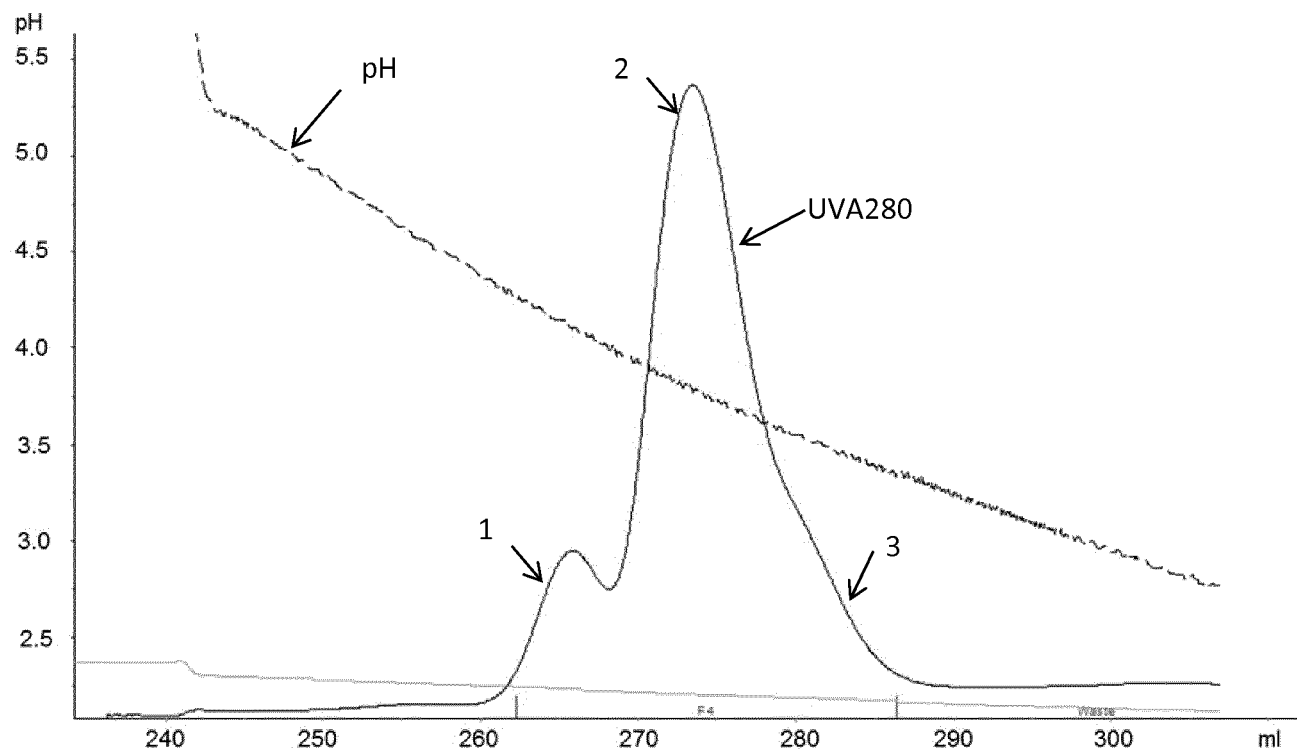


Figure 22

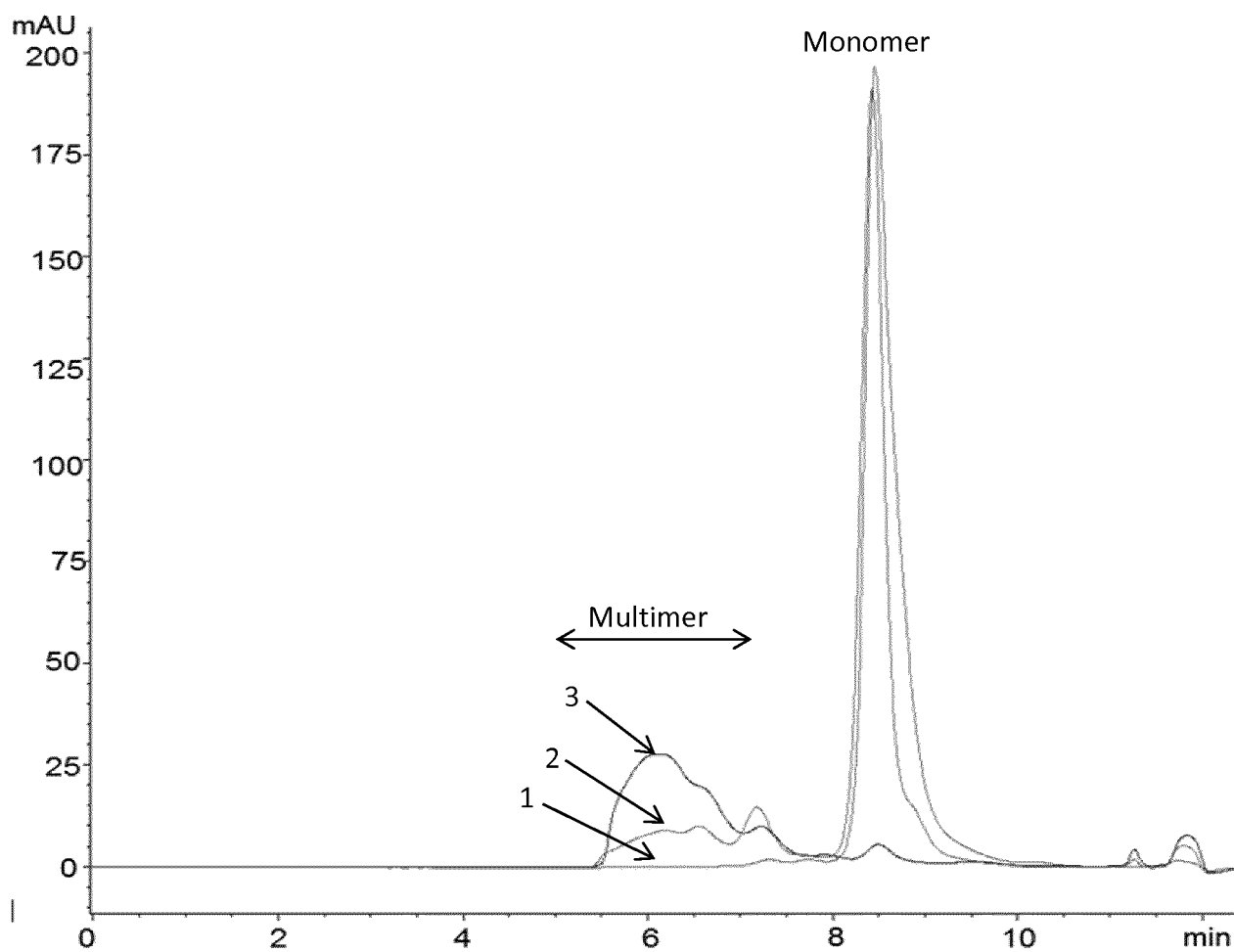
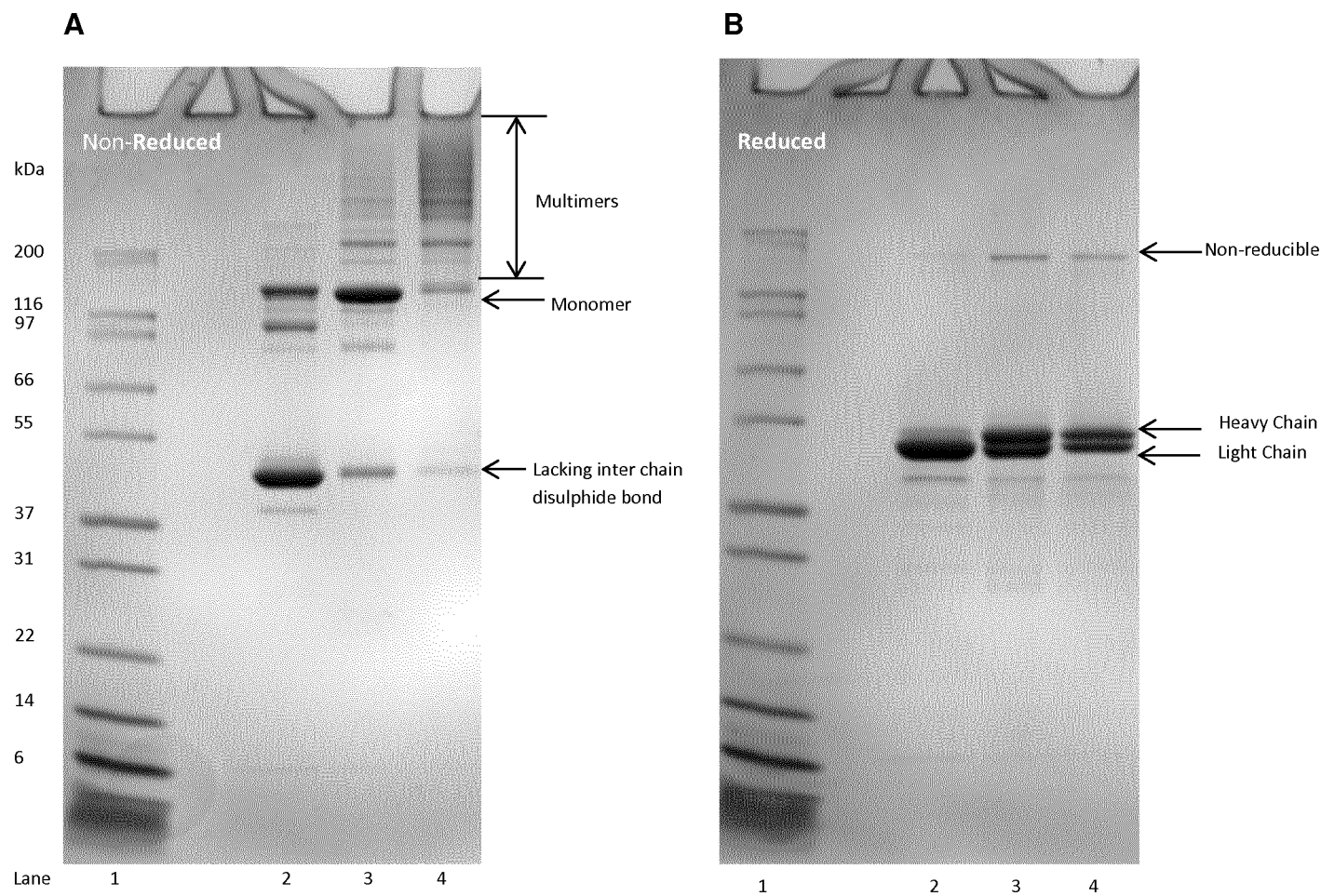


Figure 23



Lane	Sample
1	Molecular Weight Markers (Novex Mk12)
2	Fraction 1
3	Fraction 2
4	Fraction 3

Figure 24

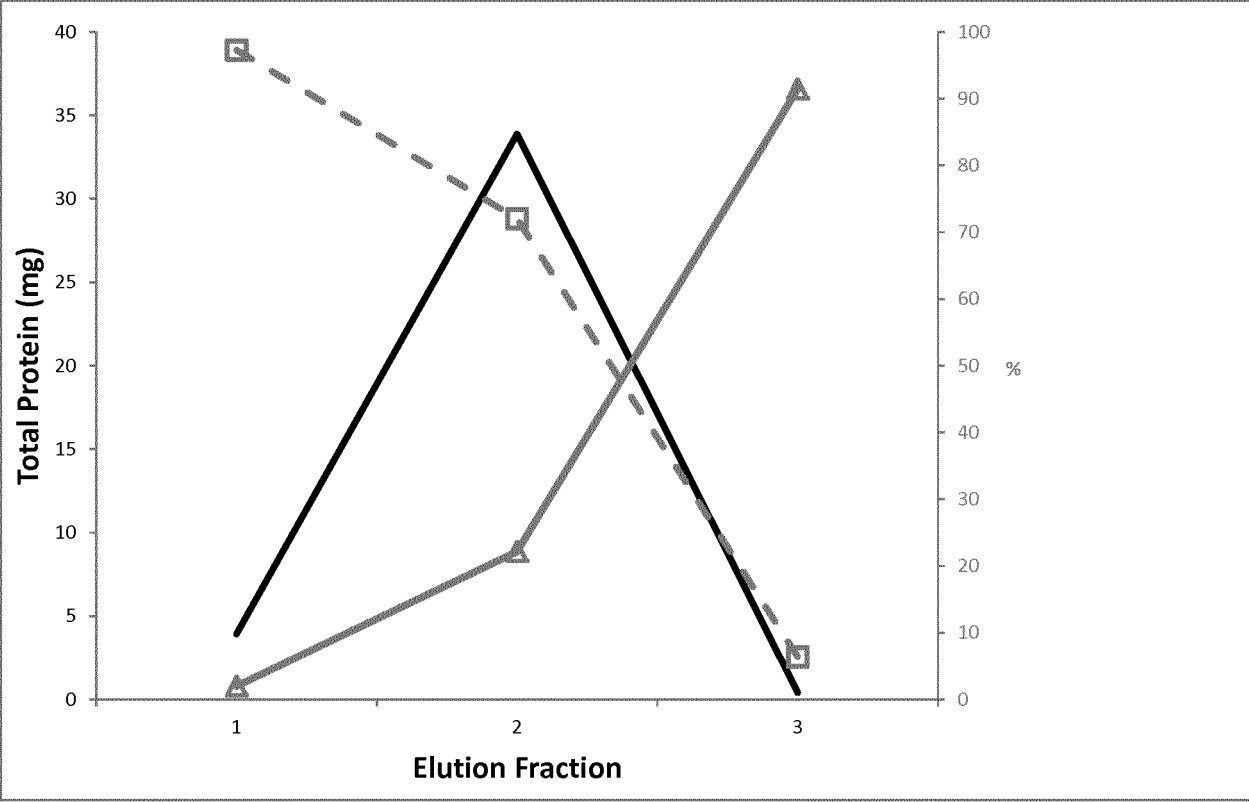
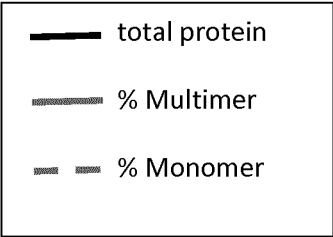


Figure 25

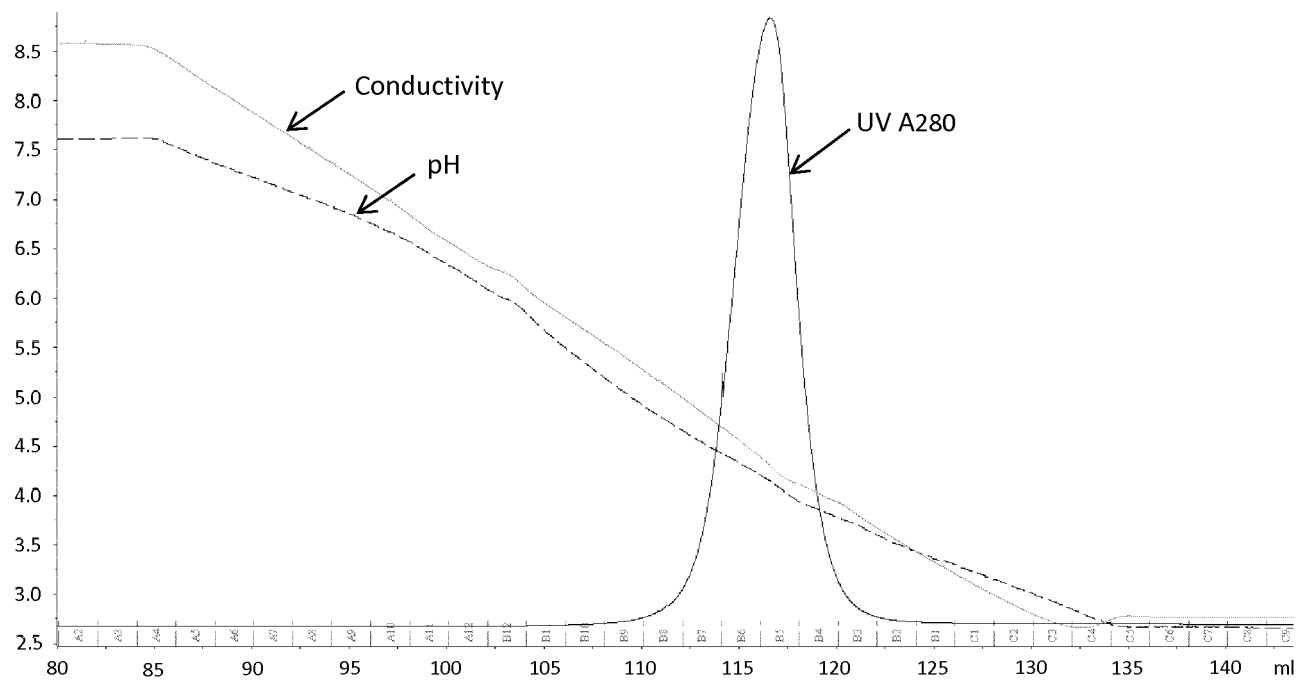


Figure 26

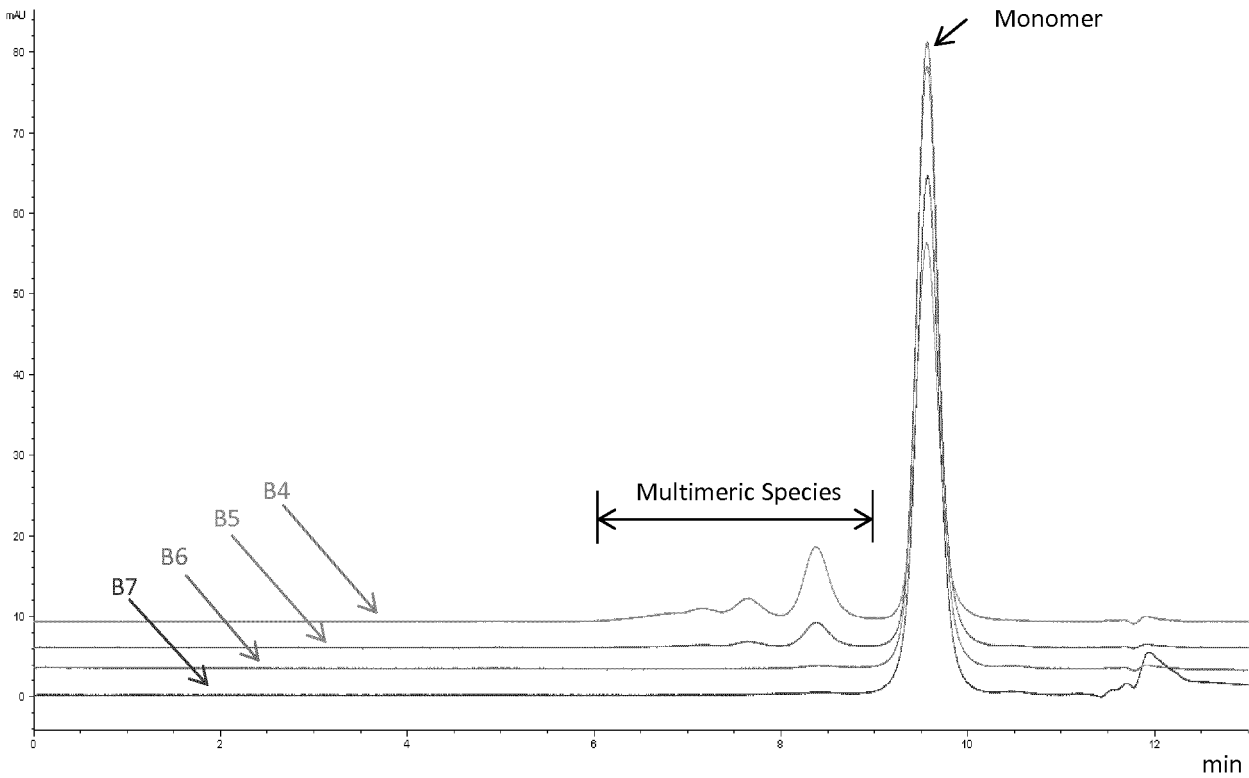
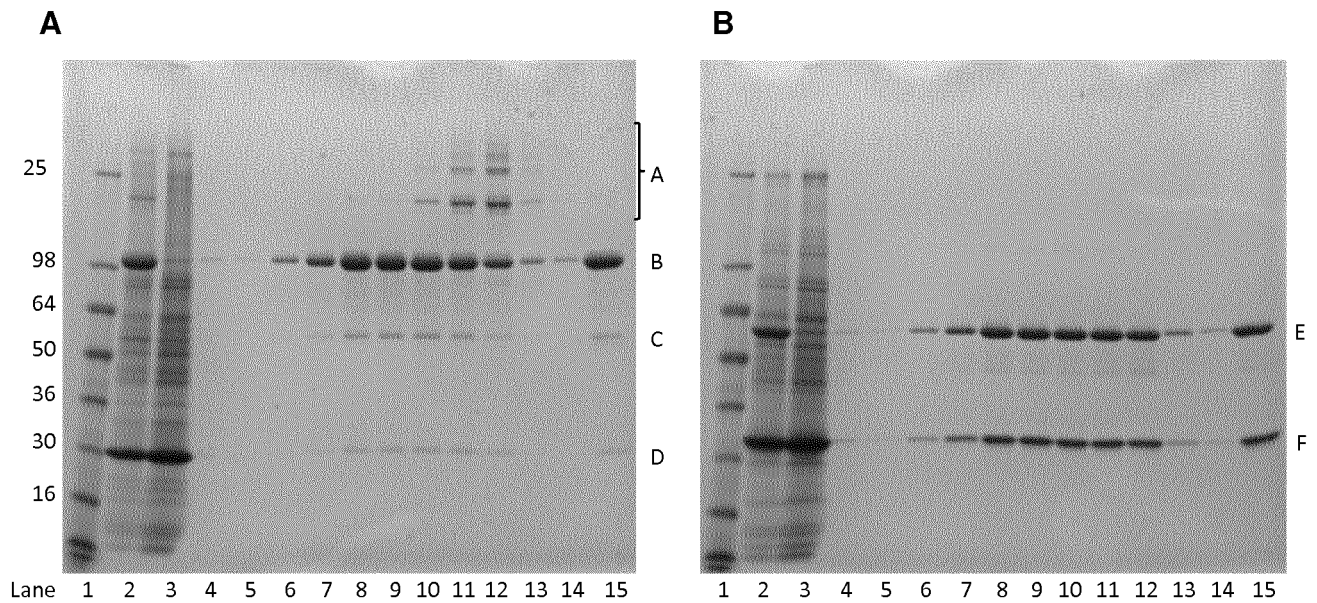


Figure 27



Key:

- A: BYbe Multimer
- B: BYbe Monomer
- C: Non-disulphide bonded Heavy chain
- D: Non-disulphide bonded Light chain
- E: Reduced Heavy chain
- F: Reduced Light chain

- Lane: 1 Molecular Weight Marker (See Blue)
- 2 MabSelect Load (clarified culture supernatant)
- 3 MabSelect Flowthrough (F3)
- 4 PBS Wash (F4)
- 5 Phosphate/citrate Wash (F5)
- 6 Fraction B9
- 7 Fraction B8
- 8 Fraction B7
- 9 Fraction B6
- 10 Fraction B5
- 11 Fraction B4
- 12 Fraction B3
- 13 Fraction B2
- 14 Fraction B1
- 15 Reference Standard (Protein G & S200 purified BYbe)

Figure 28

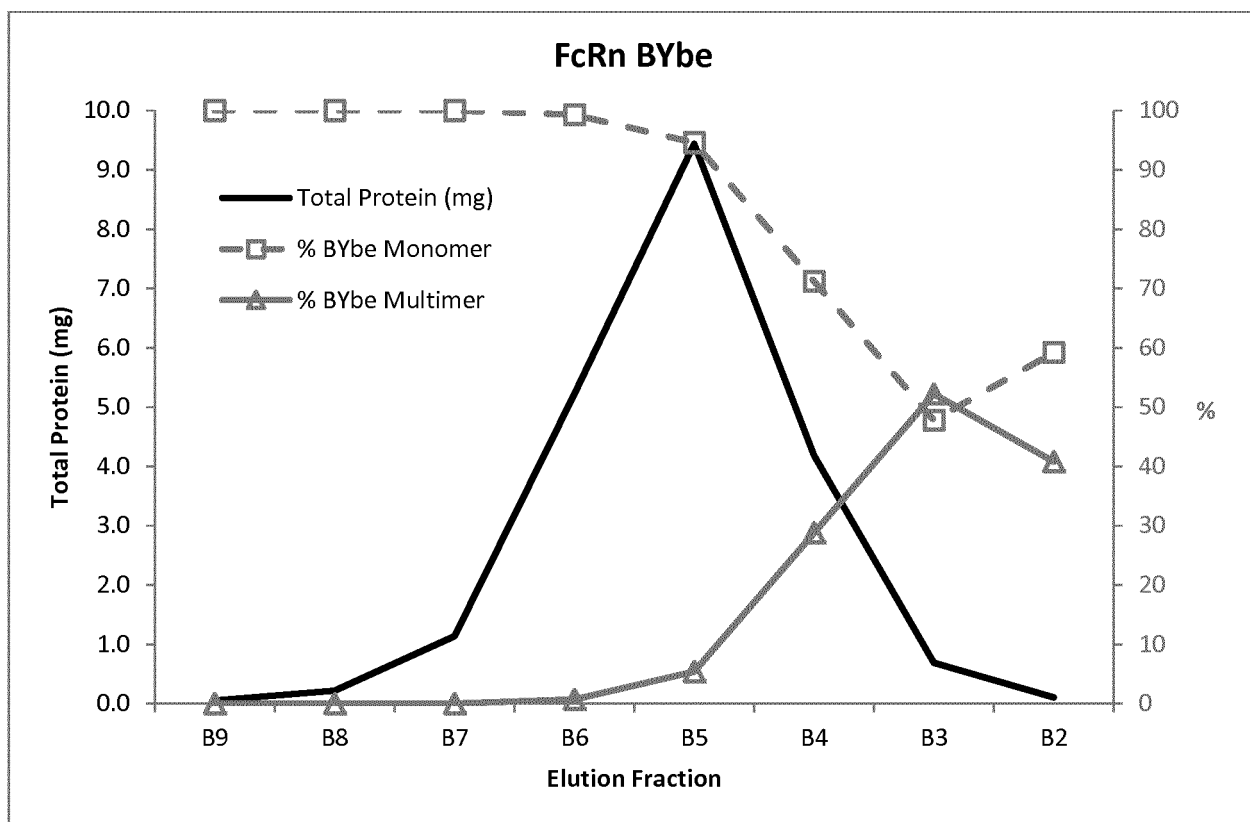


Figure 29

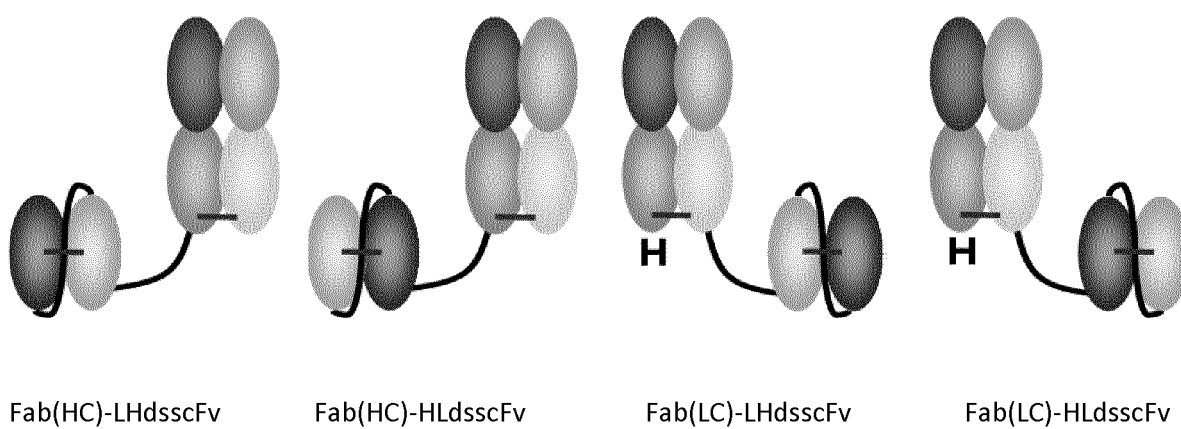
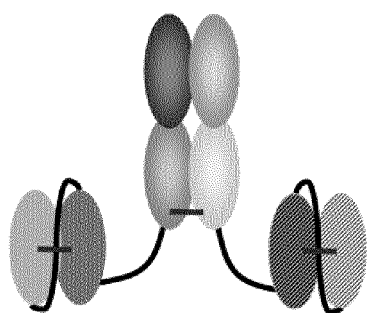
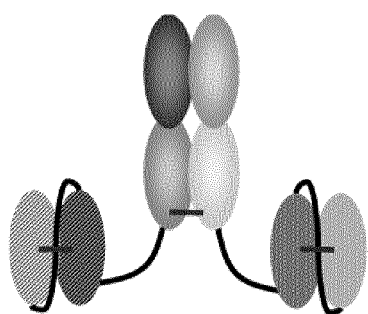
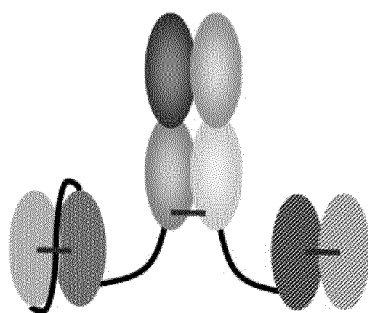
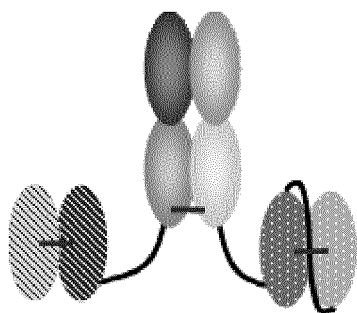


Figure 30

**Fab#2-(HC)-dsscFv#3-(LC)-dsscFv#4****Fab#2-(LC)-dsscFv#3-(HC)-dsscFv#4****Fab-(HC)dsscFv-(LC)dsFv****Fab-(HC)dsFv-(LC)dsscFv**