

说明书附图

AQEVTTQIPAALSVPEGENLVLNCSFTDSAIYNLQWFRQDPGKGLTSLLLITPWQREQTS
GRLNASLDKSSGRSTLYIAASQPGDSATYLC AVRPLVDPTYIPTFGRGTS LIVHPYIQNP
DPAVYQLRDSKSSDKSVCLFTDFDSQTNVSQSKDSDVYITDKC VLD MRSMDFKSNSA
VAWSNKSDFACANAFNNSIIPEDT (SEQ ID No: 1)

图 1a

GCCCAAGAAGTTACCCAAATCCCGGCAGCCCTGAGTGTCCCGGAAGGTGAAAATC
TGGTCCTGAATTGCTCGTTTACCGATAGCGCCATTTACAACCTGCAGTGGTTTCGTC
AAGATCCGGGCAAAGGTCTGACCAGCCTGCTGCTGATCACGCCGTGGCAGCGTGA
ACAAACCAGCGGCCGCCTGAATGCCTCTCTGGATAAAAGCTCTGGTCGCAGCACCC
TGTATATTGCAGCATCACAGCCGGGTGACTCGGCTACGTACCTGTGTGCGGTGCGT
CCGCTGGTTGATCCGACCTATATCCCGACGTTTGGCCGCGGTACCAGTCTGATTGTT
CATCCGTATATCCAGAACCCGGATCCGGCGGTCTACCAACTGCGTGATAGTAAAAG
TTCCGACAAATCCGTGTGCCTGTTTACCGATTTGACTCACAGACGAATGTTTCAC
AATCGAAAGATTCGGACGTCTATATTACCGATAAATGTGTGCTGGACATGCGCAGC
ATGGATTTCAAAGCAACTCTGCAGTCGCTTGAGTAATAAATCCGACTTTGCGTG
CGCCAACGCATTCAACAATTCTATTATCCCGGAAGATACG (SEQ ID No: 2)

图 1b

GVTQTPKFQVLKTGQSMTLQCAQDMNHEYMSWYRQDPGMGLRLIHYSVAIQTTDQG
EVPNGYNVSRSTTEDFPLRLLSAAPSQTSVYFCASSYVGNTGELFFGEGSRLTVLEDLK
NVFPPEVAVFEPSEAEISHTQKATLVCLATGFYPDHVELSWWVNGKEVHSGVCTDPQP
LKEQPALNDSRYALSSRLRVSATFWQDPRNHFRQVQFYGLSENDEWTQDRAKPVTQ
IVSAEAWGRAD (SEQ ID No: 3)

图 2a

GGTGTTACCCAGACGCCGAAATTCCAAGTCCTGAAAACCGGCCAGTCGATGACGC
TGCAGTGTGCACAAGATATGAATCATGAATATATGAGCTGGTACCGCCAAGACCC
GGGTATGGGCTGCGTCTGATTCACTATAGCGTGGCCATCCAGACCACGGATCAAG
GTGAAGTTCCGAACGGCTACAATGTCTCCCGCTCAACCACGGAAGACTTTCCGCTG
CGTCTGCTGAGCGCAGCACCGTCGCAGACCAGCGTGTATTTCTGCGCAAGCTCTTA
CGTTGGTAACACCGGCGAACTGTTTTTCGGTGAAGGCAGCCGCCTGACGGTCCTGG
AAGATCTGAAAAATGTGTTTCCGCCGGAAGTCGCGGTGTTTGAACCGTCCGAAGCC
GAAATTTACATACCCAGAAAGCAACGCTGGTGTGCCTGGCTACCGGTTTTTATCC
GGATCATGTGGAAGTGTCTTGGTGGGTAAACGGTAAAGAAGTGCACAGTGGCGTTT
GTACGGATCCGCAGCCGCTGAAAGAACAACCGGCACTGAATGACTCCCGTTATGC
TCTGAGTTCCCGTCTGCGCGTTTACGCCACCTTCTGGCAGGATCCGCGTAACCACTT
TCGCTGTCAGGTCCAATTCTACGGTCTGTCTGAAAATGATGAATGGACCCAGGACC
GTGCAAAACCGGTCACGCAAATCGTGAGTGCAGAAGCTTGGGGCCGTGCAGAT
(SEQ ID No: 4)

图 2b

EVQLVESGGGLVQPGGSLRLSCAASGYSFTGYTMNWVRQAPGKGLEWVALINPYKG
VSTYNQKFKDRFTISVDKSKNTAYLQMNSLRAEDTAVYYCARSGYYGDS DWYFDVW
GQGTLTVSS (SEQ ID No: 5)

图 3a

GAAGTTCAGCTGGTCGAAAGCGGTGGCGGTCTGGTCCAACCGGGCGGTTCACTGC
GTCTGTCGTGTGCGGCCTCTGGTTATAGTTTTACCGGCTACACGATGAATTGGGTTC
GCCAGGCACCGGGTAAAGGCCTGGAATGGGTCTGCTCTGATTAACCCGTATAAAGG
CGTGTCTACCTACAATCAGAAATTTAAAGATCGCTTCACCATCAGCGTGGACAAAT
CTAAAAACACGGCATATCTGCAAATGAATAGTCTGCGTGCAGAAGATAACCGCTGT
GTATTACTGCGCTCGCTCTGGTTATTACGGCGATAGTGACTGGTATTTTGACGTTTG
GGGTCAGGGCACCCCTGGTGACCGTTAGTTCC (SEQ ID No: 6)

图 3b

EVQLVESGGGLVQPGGSLRLSCAASGYSFTGYTMNWVRQAPGKGLEWVALINPYKG
VSTYNQKFKDRFTISVDKSKNTAYLQMNSLRAEDTAVYYCARSGYYGDSWDYFDVW
GQGTLLTVSSGGGGSNAGVTQTPKFQVLKTGQSM TLQCAQDMNHEYMSWYRQDPG
MGLRLIHYSVAIQTTDQGEVPNGYNVSRSTTEDFPLRLLSAAPSQTSVYFCASSYVGNT
GELFFGEGSRLTVLEDLKNVFPPEVAVFEPSEAEISHTQKATLVCLATGFYPDHVELSW
WVNGKEVHSGVCTDPQLKEQPALNDSRYALSSRLRVSATFWQDPRNHFRCQVQFYG
LSENDEWTQDRAKPVTQIVSAEAWGRAD (SEQ ID No: 7)

图 4a

GAAGTTCAGCTGGTCGAAAGCGGTGGCGGTCTGGTCCAACCGGGCGGTTCACTGC
GTCTGTCGTGTGCGGCCTCTGGTTATAGTTTTACCGGCTACACGATGAATTGGGTTC
GCCAGGCACCGGGTAAAGGCCTGGAATGGGTCTGCTCTGATTAACCCGTATAAAGG
CGTGTCTACCTACAATCAGAAATTTAAAGATCGCTTCACCATCAGCGTGGACAAAT
CTAAAAACACGGCATATCTGCAAATGAATAGTCTGCGTGCAGAAGATAACCGCTGT
GTATTACTGCGCTCGCTCTGGTTATTACGGCGATAGTGACTGGTATTTTGACGTTTG
GGGTCAGGGCACCCCTGGTGACCGTTAGTTCCGGCGGTGGCGGTAGCAACGCAGGT
GTTACCCAGACGCCGAAATTCCAAGTCCTGAAAACCGGCCAGTCTATGACGCTGCA
GTGTGCGCAAGATATGAACCATGAATACATGAGTTGGTACCGTCAGGACCCGGGT
ATGGGTCTGCGTCTGATTCACTATTCTGTGGCGATCCAGACCACGGATCAAGGTGA
AGTTCCGAACGGCTACAATGTCTCGCGTAGCACACCGGAAGACTTTCCGCTGCGTC
TGCTGTCCGCAGCTCCGTCCCAGACCTCAGTGTATTTCTGCGCCTCATCGTACGTTG
GTAACACCGGCCGAACTGTTTTTCGGTGAAGGCAGCCGTCTGACGGTCCTGGAAGAT
CTGAAAAATGTGTTTTCCGCCGGAAGTCGCAGTGTTCGAACCGTCGGAAGCTGAAAT
TAGCCATACCCAGAAAGCGACGCTGGTTTTGCCTGGCCACCGGTTTTTATCCGGATC
ATGTGGAAGTGTCTGCTGGTGGGTTAACGGTAAAGAAAGTGCCTCAGGCGTTTGTACG
GATCCGCAGCCGCTGAAAGAACACCGGCGCTGAATGACTCGCGCTATGCCCTGA
GCTCTCGTCTGCGCGTTAGCGCGACCTTCTGGCAGGATCCGCGTAACCACTTTTCGC
TGTCAGGTCCAATTCTACGGTCTGTCCGAAAATGATGAATGGACCCAGGACCGTGC
GAAACCGGTCACGCAAATCGTGTGACGCGAAGCCTGGGGCCGCGCAGAT (SEQ ID
No: 8)

图 4b

GGGGS (SEQ ID No: 9)

图 5

DIQMTQSPSSLSASVGDRVTITCRASQDIRNYLNWYQQKPGKAPKLLIYYTSRLESGVP
SRFSGSGSGTDYTLTISSLQPEDFATYYCQQGNTLPWTFGQGTKVEIK (SEQ ID No:
10)

图 6a

GATATTCAGATGACGCAATCCCCGAGTTCCTGTCAGCTTCGGTTGGTGATCGTGT
CACCATTACGTGTCGCGCGAGCCAGGACATCCGTA ACTATCTGAATTGGTACCAGC
AAAAACCGGGTAAAGCTCCGAAACTGCTGATTTATTACACCTCCCGTCTGGAATCA
GGTGTGCCGTCGCGTTTTAGCGGCTCTGGTAGTGGCACCGATTATACCCTGACGAT
CTCATCGCTGCAGCCGGAAGACTTTGCGACGTATTACTGCCAGCAAGGCAACACCC
TGCCGTGGACGTTTCGGTCAGGGCACCAAAGTTGAAATCAAA (SEQ ID No: 11)

图 6b

DIQMTQSPSSLSASVGDRVTITCRASQDIRNYLNWYQQKPGKAPKLLIYYTSRLESGVP
SRFSGSGSGTDYTLTISSLQPEDFATYYCQQGNTLPWTFGQGQTKVEIKGGGGSNAGVT
QTPKFQVLKTGQSM TLQCAQDMNHEYMSWYRQDPGMGLRLIHYSVAIQTTDQGEVP
NGYNVSRSTTEDFPLRLLSAAPSQTSVYFCASSYVGNTGELFFGEGSRLTVLEDLKNVF
PPEVAVFEPSEAEISHTQKATLVCLATGFYPDHVELSWWVNGKEVHSGVCTDPQPLKE
QPALNDSRYALSSRLRVSATFWQDPRNHFRCQVQFYGLSENDEWTQDRAKPVQTQIVS
AEAWGRAD (SEQ ID No: 12)

图 7a

GATATTCAGATGACGCAATCCCCGAGTTCCTGTCAGCTTCGGTTGGTGATCGTGT
CACCATTACGTGTCGCGCGAGCCAGGACATCCGTA ACTATCTGAATTGGTACCAGC
AAAAACCGGGTAAAGCTCCGAAACTGCTGATTTATTACACCTCCCGTCTGGAATCA
GGTGTGCCGTCGCGTTTTAGCGGCTCTGGTAGTGGCACCGATTATACCCTGACGAT
CTCATCGCTGCAGCCGGAAGACTTTGCGACGTATTACTGCCAGCAAGGCAACACCC
TGCCGTGGACGTTTCGGTCAGGGCACCAAAGTTGAAATCAAAGGCGGTGGCGGTAG
CAATGCCGGTGTACCCAGACGCCGAAATTC AAGTCCTGAAAACCGGCCAGTCG
ATGACGCTGCAGTGTGCACAAGATATGAATCATGAATATATGAGCTGGTACCGCC
AAGACCCGGGTATGGGCCTGCGTCTGATTC ACTATAGCGTGGCCATCCAGACCACG
GATCAAGGTGAAGTTCCGAACGGCTACAATGTCTCCCGCTCAACCACGGAAGACTT
TCCGCTGCGTCTGCTGAGCGCAGCACCGTCGCAGACCAGCGTGTATTTCTGCGCAA
GCTCTTACGTTGGTAACACCGGCGAACTGTTTTTCGGTGAAGGCAGCCGCCTGACG
GTCCTGGAAGATCTGAAAAATGTGTTTCCGCCGGAAGTCGCGGTGTTTCGAACCGTC
CGAAGCCGAAATTTACATACCCAGAAAGCAACGCTGGTGTGCCTGGCTACCGGTT
TTATCCGGATCATGTGGAAGTGTCTTGGTGGGTAAACGGTAAAGAAGTGCACAGT
GGCGTTTGTACGGATCCGCAGCCGCTGAAAGAACAACCGGCACTGAATGACTCCC
GTTATGCTCTGAGTTCCCGTCTGCGCGTTTTAGCCACCTTCTGGCAGGATCCGCGTA
ACCACTTTTCGCTGTCAGGTCCAATTCTACGGTCTGTCTGAAAATGATGAATGGACC
CAGGACCGTGCAAACCGGTCACGCAAATCGTGAGTGCAGAAGCCTGGGGCCGCG
CAGAT (SEQ ID No: 13)

图 7b

EVQLVESGGGLVQPGGSLRLSCAASGYSFTGYTMNWVRQAPGKCLEWVALINPYKG
VSTYNQKFKDRFTISVDKSKNTAYLQMNSLRAEDTAVYYCARSGYYGDS DWYFDVW
QGGLTVTVSS (SEQ ID No: 14)

图 8a

GAAGTTCAGCTGGTCGAAAGCGGTGGCGGTCTGGTCCAACCGGGCGGTTC ACTGC
GTCTGTCTGTGTCGGCCTCTGGTTATAGTTTTACCGGCTACACGATGAATTGGGTTC
GCCAGGCACCGGGTAAATGCCTGGAATGGGTCTGCTCTGATTAACCCGTATAAAGG
CGTGTCTACCTACAATCAGAAATTTAAAGATCGCTTACCATCAGCGTGGACAAAT
CTAAAAACACGGCATATCTGCAAATGAATAGTCTGCGTGCAGAAGATACCGCTGT
GTATTACTGCGCTCGCTCTGGTTATTACGGCGATAGTGACTGGTATTTTGACGTTTG

GGGTCAGGGCACCCCTGGTGACCGTTAGTTCC (SEQ ID No: 15)

图 8b

DIQMTQSPSSLSASVGDRVTITCRASQDIRNYLNWYQQKPGKAPKLLIYYTSRLESGVP
SRFSGSGSGTDYTLTISSLQPEDFATYYCQQGNTLPWTFGCGTKVEIKR (SEQ ID No:
16)

图 9a

GATATTCAGATGACGCAGTCTCCGAGCAGCCTGTCCGCCTCCGTGGGTGACCGTGT
TACCATTACCTGTCGTGCCAGCCAAGATATTCGTAACCTATCTGAATTGGTACCAGC
AAAAACCGGGTAAAGCCCCGAACTGCTGATTTATTACACCTCGCGTCTGGAAAG
CGGCGTGCCGTCTCGCTTTAGTGGCTCCGGTTCAGGCACCGATTATACCCTGACGA
TCAGCTCTCTGCAGCCGGAAGACTTTGCAACGTATTACTGCCAGCAGGGTAACACC
CTGCCGTGGACGTTCCGGTTCGCGCACCAAAGTTGAAATTAAACGT (SEQ ID No:
17)

图 9b

EVQLVESGGGLVQPGGSLRLSCAASGYSFTGYTMNWVRQAPGKCLEWVALINPYKG
VSTYNQKFKDRFTISVDKSKNTAYLQMNSLRAEDTAVYYCARSGYYGDSDWYFDVW
GQGT LVT VSSGGGSGNAGVTQTPKFQVLKTGQSM TLQCAQDMNHEYMSWYRQDPG
MGLRLIHYSVAIQTTDQGEVPNGYNVSRSTTEDFPLRLLSAAPSQTSVYFCASSYVGNT
GELFFGEGSRLTVLEDLKNVFPPEVAVFEPSEAEISHTQKATLVCLATGFYPDHVELSW
WVNGKEVHSGVCTDPQPLKEQPALNDSRYALSSRLRVSATFWQDPRNHFRCVQVQFYG
LSENDEWTQDRAKPVTQIVSAEAWGRAD (SEQ ID No: 18)

图 10a

GAAGTTCAGCTGGTCGAAAGCGGTGGCGGTCTGGTCCAACCGGGCGGTTCACTGC
GTCTGTCTGTGTGCGCCTCTGGTTATAGTTTTACCGGCTACACGATGAATTGGGTTC
GCCAGGCACCGGGTAAATGCCTGGAATGGGTCTGCTGATTAACCCGTATAAAGG
CGTGTCTACCTACAATCAGAAATTTAAAGATCGCTTCACCATCAGCGTGGACAAAT
CTAAAAACACGGCATATCTGCAAATGAATAGTCTGCGTGCAGAAGATAACCGCTGT
GTATTACTGCGCTCGCTCTGGTTATTACGGCGATAGTGACTGGTATTTTGACGTTTG
GGGTCAGGGCACCCCTGGTGACCGTTAGTTCGCGCGGTGGCGGTAGCAACGCAGGT
GTTACCCAGACGCCGAAATTCCAAGTCCTGAAAACCGGCCAGTCTATGACGCTGCA
GTGTGCGCAAGATATGAACCATGAATACATGAGTTGGTACCGTCAGGACCCGGGT
ATGGGTCTGCGTCTGATTCACTATTCTGTGGCGATCCAGACCACGGATCAAGGTGA
AGTTCCGAACGGCTACAATGTCTCGCGTAGCACACGGAAGACTTTCCGCTGCGTC
TGCTGTCCGCAGCTCCGTCCCAGACCTCAGTGTATTTCTGCGCCTCATCGTACGTTG
GTAACACCGGCGAACTGTTTTTCGGTGAAGGCAGCCGTCTGACGGTCTTGGAAGAT
CTGAAAAATGTGTTTCCGCCGGAAGTCGCAGTGTTTCGAACCGTCGGAAGCTGAAAT
TAGCCATACCCAGAAAGCGACGCTGGTTTGCCTGGCCACCGGTTTTTATCCGGATC
ATGTGGAAGTGTCTGCTGGTGGGTTAACGGTAAAGAAGTGCCTCAGGCGTTTGTACG
GATCCGCAGCCGCTGAAAGAACAAACCGGCGCTGAATGACTCGCGCTATGCCCTGA
GCTCTCGTCTGCGCGTTAGCGCGACCTTCTGGCAGGATCCGCGTAACCACTTTCGC
TGTCAGGTCCAATTCTACGGTCTGTCCGAAAATGATGAATGGACCCAGGACCGTGC
GAAACCGGTCACGCAAATCGTGTCAGCGGAAGCCTGGGGCCGCGCAGAT (SEQ ID
No: 19)

图 10b

EVQLVESGGGLVQPGGSLRLSCAASGYSFTGYTMNWVRQAPGKGLEWVALINPYKG
VSTYNQKFKDRFTISVDKSKNTAYLQMNSLRAEDTAVYYCARSGYYGDSWDYFDVW
GCGTLTVVSS (SEQ ID No: 20)

图 11a

GAAGTTCAGCTGGTCGAAAGCGGTGGCGGTCTGGTCCAACCGGGCGGTTCCTGCTGCTGCTGTGCGGCCTCTGGTTATAGTTTTACCGGCTACACGATGAATTGGGTTC
GCCAGGCACCGGGTAAAGGCCTGGAATGGGTCTGCTCTGATTAACCCGTATAAAGG
CGTGTCTACCTACAATCAGAAATTTAAAGATCGCTTCACCATCAGCGTGGACAAAT
CTAAAAACACGGCATATCTGCAAATGAATAGTCTGCGTGCAGAAGATAACCGCTGT
GTATTACTGCGCTCGCTCTGGTTATTACGGCGATAGTGACTGGTATTTTGACGTTTG
GGGTTGCGGCACCCTGGTGACCGTTAGTTCC (SEQ ID No: 21)

图 11b

DIQMTQSPSSLSASVGDRVTITCRASQDIRNYLNWYQQKPGKCPKLLIYYTSRLESGVP
SRFSGSGSGTDYTLTISSLQPEDFATYYCQQGNTLPWTFGQGTKVEIKR (SEQ ID No:
22)

图 12a

GATATTCAGATGACGCAGTCTCCGAGCAGCCTGTCCGCCTCCGTGGGTGACCGTGT
TACCATTACCTGTCGTGCCAGCCAAGATATTCGTAACCTATCTGAATTGGTACCAGC
AAAAACCGGGTAAATGCCCGAAACTGCTGATTTATTACACCTCGCGTCTGGAAAGC
GGCGTGCCGTCTCGCTTTAGTGGCTCCGGTTCAGGCACCGATTATACCTGACGAT
CAGCTCTCTGCAGCCGGAAGACTTTGCAACGTATTACTGCCAGCAGGGTAACACCC
TGCCGTGGACGTTCCGGTCAGGGCACCAAAGTTGAAATTAAACGT (SEQ ID No: 23)

图 12b

EVQLVESGGGLVQPGGSLRLSCAASGYSFTGYTMNWVRQAPGKGLEWVALINPYKG
VSTYNQKFKDRFTISVDKSKNTAYLQMNSLRAEDTAVYYCARSGYYGDSWDYFDVW
GCGTLTVVSSGGGGSNAGVTQTQPKFQVLKTGQSMTLQCAQDMNHEYMSWYRQDPG
MGLRLIHYSVAIQTTDQGEVPNGYNVSRSTTEDFPLRLLSAAPSQTSVYFCASSYVGNT
GELFFGEGSRLTVLEDLKNVFPPEVAVFEPSEAEISHTQKATLVCLATGFYPDHVELSW
WVNGKEVHSGVCTDPQPLKEQPALNDSRYALSSRLRVSATFWQDPRNHFRCQVQFYG
LSENDEWTQDRAKPVTQIVSAEAWGRAD (SEQ ID No: 24)

图 13a

GAAGTTCAGCTGGTCGAAAGCGGTGGCGGTCTGGTCCAACCGGGCGGTTCCTGCTGCTGCTGTGCGGCCTCTGGTTATAGTTTTACCGGCTACACGATGAATTGGGTTC
GCCAGGCACCGGGTAAAGGCCTGGAATGGGTCTGCTCTGATTAACCCGTATAAAGG
CGTGTCTACCTACAATCAGAAATTTAAAGATCGCTTCACCATCAGCGTGGACAAAT
CTAAAAACACGGCATATCTGCAAATGAATAGTCTGCGTGCAGAAGATAACCGCTGT
GTATTACTGCGCTCGCTCTGGTTATTACGGCGATAGTGACTGGTATTTTGACGTTTG
GGGTTGCGGCACCCTGGTGACCGTTAGTTCCGGCGGTGGCGGTAGCAACGCAGGT
GTTACCCAGACGCCGAAATTCCAAGTCCTGAAAACCGGCCAGTCTATGACGCTGCA
GTGTGCGCAAGATATGAACCATGAATACATGAGTTGGTACCGTCAGGACCCGGGT
ATGGGTCTGCGTCTGATTCACTATTCTGTGGCGATCCAGACCACGGATCAAGGTGA
AGTTCCGAACGGCTACAATGTCTCGCGTAGCACACGGAAGACTTTCCGCTGCGTC
TGCTGTCCGCAGCTCCGTCCCAGACCTCAGTGTATTTCTGCGCCTCATCGTACGTTG
GTAACACCGGCGAAGTGTTCGGTGAAGGCAGCCGTCTGACGGTCTGGAAGAT
CTGAAAAATGTGTTTCCGCCGGAAGTCGCAAGTGTTCGAACCGTCGGAAGCTGAAAT

TAGCCATACCCAGAAAGCGACGCTGGTTTGCCTGGCCACCGGTTTTTATCCGGATC
ATGTGGAAGTGTCTGGTGGGTTAACGGTAAAGAAGTGCCTCAGGCGTTTGTACG
GATCCGCAGCCGCTGAAAGAACAACCGGCGCTGAATGACTCGCGCTATGCCCTGA
GCTCTCGTCTGCGCGTTAGCGCGACCTTCTGGCAGGATCCGCGTAACCACTTTCGC
TGTCAGGTCCAATTCTACGGTCTGTCCGAAAATGATGAATGGACCCAGGACCGTGC
GAAACCGGTCACGCAAATCGTGTCTCAGCGGAAGCCTGGGGCCGCGCAGAT (SEQ ID
No: 25)

图 13b

DIQMTQSPSSLSASVGDRVTITCRASQDIRNYLNWYQQKPGKCPKLLIYYTSRLESGVP
SRFSGSGSGTDYTLTISSLQPEDFATYYCQQGNTLPWTFGQGTKVEIKGGGGSNAGVT
QTPKFQVLKTGQSM TLQCAQDMNHEYMSWYRQDPGMGLRLIHYSVAIQTTDQGEVP
NGYNVSRSTTEDFPLRLLSAAPSQTSVYFCASSYVGNTGELFFGEGSRLTVLEDLKNVF
PPEVAVFEPSEAEISHTQKATLVCLATGFYPDHVELSWWVNGKEVHSGVCTDPQPLKE
QPALNDSRYALSSRLRVSATFWQDPRNHFRCQVQFYGLSENDEWTQDRAKPV TQIVS
AEAWGRAD (SEQ ID No: 26)

图 14a

GATATTCAGATGACGCAGTCTCCGAGCAGCCTGTCCGCCTCCGTGGGTGACCGTGT
TACCATTACCTGTCGTGCCAGCCAAGATATTCGTAACCTATCTGAATTGGTACCAGC
AAAAACCGGGTAAATGCCCGAACTGCTGATTTATTACACCTCGCGCTGGAAAG
CGGTGTGCCGTCTCGTTTTAGCGGTTCTGGCAGTGGTACCGATTATACCCTGACGA
TCTCATCGCTGCAGCCGGAAGACTTTGCGACGTATTACTGCCAGCAGGGTAACACC
CTGCCGTGGACGTTCCGGCCAGGGTACCAAAGTTGAAATCAAAGGTGGCGGTGGCA
GCAATGCCGGCGTTACCCAGACGCCGAAATTCCAAAGTCCTGAAAACCGGCCAGTC
TATGACGCTGCAGTGTGCACAAGATATGAACCATGAATACATGAGTTGGTACCGCC
AAGACCCGGGCATGGGTCTGCGTCTGATTA CTATAGCGTGGCCATCCAGACCACG
GATCAAGGCGAAGTTCCGAACGGTTACAATGTCTCCCGCTCAACCACGGAAGACTT
TCCGCTGCGTCTGCTGAGCGCAGCACCGTCTGCAGACCAGCGTGTATTTCTGCGCAA
GCTCTTACGTTGGCAACACCGGTGAACTGTTTTTCGGCGAAGGTTCTCGCCTGACG
GTCCTGGAAGATCTGAAAAATGTGTTTTCCGCCGGAAGTCGCGGTGTTTGAACCGTC
GGAAGCCGAAATTAGCCATACCCAGAAAGCAACGCTGGTGTGCCTGGCTACCGGC
TTTTATCCGGATCATGTGGAAGTGTCTGGTGGGTTAACGGCAAAGAAGTGCCTC
AGGTGTTTGTACGGATCCGCAGCCGCTGAAAGAACAACCGGCACTGAATGACTCG
CGTTATGCTCTGAGTTCCCGTCTGCGCGTTAGCGCCACCTTCTGGCAGGATCCGCGT
AACCACCTTTCGCTGTCAGGTCCAATTCTACGGCCTGTCCGAAAATGATGAATGGAC
CCAGGACCGTGCAAAACCGGTCACGCAAATCGTGTCTCAGCAGAAGCCTGGGGCCGC
GCAGAT (SEQ ID No: 27)

图 14b

DIQMTQSPSSLSASVGDRVTITCRASQDIRNYLNWYQQKPGKAPKLLIYYTSRLESGVP
SRFSGSGSGTDYTLTISSLQPEDFATYYCQQGNTLPWTFGCGTKVEIKGGGGSNAGVT
QTPKFQVLKTGQSM TLQCAQDMNHEYMSWYRQDPGMGLRLIHYSVAIQTTDQGEVP
NGYNVSRSTTEDFPLRLLSAAPSQTSVYFCASSYVGNTGELFFGEGSRLTVLEDLKNVF
PPEVAVFXPSEAEISHTQKATLVCLATGFYPDHVELSWWVNGKEVHSGVCTDPQPLKE
QPALNDSRYALSSRLRVSATFWQDPRNHFRCQVQFYGLSENDEWTQDRAKPV TQIVS
AEAWGRAD (SEQ ID No: 28)

图 15a

GATATTCAGATGACGCAGTCTCCGAGCAGCCTGTCCGCCTCCGTGGGTGACCGTGT

TACCATTACCTGTCGTGCCAGCCAAGATATTCGTAACCTATCTGAATTGGTACCAGC
 AAAAACCGGGTAAAGCCCCGAAACTGCTGATTTATTACACCTCGCGTCTGGAAAG
 CGGCGTGCCGTCTCGCTTTAGTGGCTCCGGTTCAGGCACCGATTATACCCTGACGA
 TCAGCTCTCTGCAGCCGGAAGAcTTTGCAACGTATTACTGCCAGCAGGGtAACACCC
 TGCCGTGGACGTTTCGGTTGCGGCACCAAAGTTGAAATCAAAGGTGGCGGTGGCAG
 CAATGCCGGCGTTACCCAGACGCCGAAATTCCAAGTcCTGAAAACCGGCCAGTCTA
 TGACGCTGCAGTGTGCACAAGATATGAACCATGAATACATGAGTTGGTACCGCCA
 AGACCCGGGCATGGGTCTGCGTCTGATTCACTATAGCGTGGCCATCCAGACCACGG
 ATCAAGGCGAAGTTCCGAACGGTTACAATGTCTCCCGCTCAACCACGGAAGACTTT
 CCGCTGCGTCTGCTGAGCGCAGCACCGTCCGAGACCAGCGTGTATTTCTGCGCAAG
 CTCTTACGTTGGCAACACCGGTGAACCTGTTTTTCGGCGAAGGTTCTCGCCTGACGG
 TCCTGGAAGATCTGAAAAATGTGTTTCCGCCGGAAGTCGCGGTGTTCTRAACCGTCG
 GAAGCCGAAATTAGCCATACCCAGAAAGCAACGCTGGTGTGCCTGGCTACCGGCT
 TTTATCCGGATCATGTGGAACCTGTCTGGTGGGTAAACGGCAAAGAAGTGCACTCA
 GGTGTTTGTACGGATCCGCAGCCGCTGAAAGAACAACCGGCACTGAATGACTCGC
 GTTATGCTCTGAGTTCCCGTCTGCGCGTTAGCGCCACCTTCTGGCAGGATCCGCGT
 AACCACCTTTCGCTGTCAGGTCCAATTCTACGGCCTGTCCGAAAATGATGAATGGAC
 CCAGGACCGTGCAAAACCGGTCACGCAAATCGTGTGTCAGCAGAAGCCTGGGGCCGC
 GCAGAT (SEQ ID No: 29)

图 15b

SQQGEEDPQALSIQEGENATMNC SYKDRITNLQWYRQNSGRGLVHLILIRSNEREKHSGR
 RVTLDTSKSSSLITASRAADTASYFCATDLEAEYKYIFGTGTRLKVLANIQNPDPAVYQL
 RDSKSSDKSVCLFTDFDSQTNVSQSKSDSVYITDKTVLDMRSMDFKSNSAVAWSNKSDFA
 CANAFNNSIIPEDTFFcSPRESS (SEQ ID No: 30)

图 16 a

AGTCAACAGGGAGAAGAGGATCCTCAGGCCTTGAGCATCCAGGAGGGTGAAAATGCC
 ACCATGAACTGCAGTTACAAAGATCGTATAACCAATTTACAGTGGTATAGACAAAATTC
 AGGTAGAGGCCTTGTCACCTAATTTTAATACGTTCAAATGAAAGAGAGAAACACAGT
 GGAAGATTAAAGAGTCACGCTTGACACTTCCAAGAAAAGCAGTTCCTTGTTGATCACGG
 CTCCCCGGGCAGCAGACACTGCTTCTTACTTCTGTGCTACGGACCTGGAAGCAGAATAC
 AAATACATCTTTGGAACAGGCACCAGGCTGAAGGTTTTAGCAAATATCCAGAACCCAG
 ACCCCGCCGTGTATCAGCTGAGGGACTCCAAGAGCTCCGATAAGAGCGTGTGCCTGTT
 CACCGACTTTGATTCTCAGACAAACGTGAGCCAGTCTAAGGACAGCGACGTGTACATC
 ACCGACAAGACAGTGTGATATGCGCTCCATGGACTTCAAGAGCAACTCCGCCGTGG
 CCTGGTCTAATAAGAGCGATTCGCTGCGCCAACGCCTTTAACAATTCCATCATCCCTG
 AGGATACCTTCTTTGTTCTCCAGAAAGTTCCCTAA (SEQ ID No: 31)

图 16 b

EVQLVESGGGLVQPGGSLRLSCAASGYSTGYTMNWVRQAPGKGLEWVALINPYKGVST
 YNQKFKDRFTISVDKSKNTAYLQMNSLRAEDTAVYYCARSGYYGDSWDYFDVWGcGTL
 VTVSSgGGGSETGVTQSPHLIKTRGQQVTLRCSSQSGHNTVSWYQQALGQGPQFIFQYY
 RQVANRGRNFPPRFSGLQFPNYSSELNVNALELDDSAlyLCASSKDAGPVFFGQGTRLTVV
 EDLKNVPPEVAVFEPSEcEISHTQKATLVCLATGFYPDHVELSWVWNGKEVHSGVSTDPO
 PLKEQPALNDSRYALSSRLRVSATFWQNPRNHFRQCQVFYGLSENDEWTQDRAKPVTQIV
 SAEAWGRAD (SEQ ID No: 32)

图 17 a

GAAGTTCAGCTGGTCGAAAGCGGTGGCGGTCTGGTCCAACCGGGCGGTTCCTGCGTC

TGTCGTGTGCGGCCTCTGGTTATAGTTTTACCGGCTACACGATGAATTGGGTTTCGCCAG
GCACCGGGTAAAGGCCTGGAATGGGTCGCTCTGATTAACCCGTATAAAGGCGTGTCTAC
CTACAATCAGAAATTTAAAGATCGCTTCACCATCAGCGTGGACAAATCTAAAAACACGG
CATATCTGCAAATGAATAGTCTGCGTGCAGAAGATACCGCTGTGTATTACTGCGCTCGCT
CTGGTTATTACGGCGATAGTGACTGGTATTTTGACGTTTGGGGTTGCGGCACCCTGGTG
ACCGTTAGTTCCGGCGGTGGCGGTAGCGAAACTGGAGTAACCCAAAGTCCCACACACC
TGATCAAAACGAGAGGACAGCAAGTGACTCTGAGATGCTCTTCTCAGTCTGGGCACAA
CACTGTGTCCTGGTACCAACAGGCCCTGGGTCAGGGGCCCCAGTTTATCTTTTCAGTATT
ATAGGCAGGTGGCGAATGGCAGAGGAACTTCCCTCCTAGATTCTCAGGTCTCCAGTTC
CCTAATTATAGCTCTGAGCTGAATGTGAACGCCTTGGAGCTGGACGACTCGGCCCTGTA
TCTCTGTGCCAGCAGCAAGGACGCGGGTCCGGTTTTCTTTGGACAAGGCACCAGACTC
ACAGTTGTAGAGGACCTGAAGAACGTGTTCCCCCTGAGGTGGCCGTGTTTTCAGCCAA
GCGAGTGCGAGATCTCCCACACCCAGAAGGCCACCCTGGTGTGCCTGGCCACAGGCTT
CTACCCCGATCACGTGGAGCTGAGCTGGTGGGTGAACGGCAAGGAGGTGCACAGCGG
CGTGTCCACCGACCCACAGCCCCTGAAGGAGCAGCCTGCCCTGAATGATTCTAGATAC
GCCCTGTCTAGCCGGCTGAGAGTGAGCGCCACCTTTTGGCAGAACCCACGGAATCACT
TCAGATGTGAGGTGCAGTTTTATGGCCTGAGCGAGAACGATGAGTGGACCCAGGACAG
GGCAAAGCCAGTGACACAGATCGTGTCCGCCGAGGCTTGGGGTCGTGCAGATTAA
(SEQ ID No: 33)

图 17 b

IQNPDPVYQLRDSKSSDKSVCLFTDFDSQTNVSQSKDSDVYITDKTVLDMRSMDFKS
NSAVAWSNKSDFACANAFNNSIIPEDTFFPSP (SEQ ID No: 34)

图 18

DLNKVFPPEVAVFEPSEAEISHTQKATLVCLATGFFPDHVELSWWVNGKEVHSGVSTD
PQPLKEQPALNDSRYCLSSRLRVSATFWQNPRNHFRQVQFYGLSENDEWTQDRAKP
VTQIVSAEAWGRA (SEQ ID No: 35)

图 19

DLKNVFPPEVAVFEPSEAEISHTQKATLVCLATGFYPDHVELSWWVNGKEVHSGVST
DPQPLKEQPALNDSRYCLSSRLRVSATFWQNPRNHFRQVQFYGLSENDEWTQDRAK
PVTQIVSAEAWGRA (SEQ ID No: 36)

图 20

SLLMWITQC (SEQ ID No: 37)

图 21

FMNKFIYEI (SEQ ID No: 38)

图 22

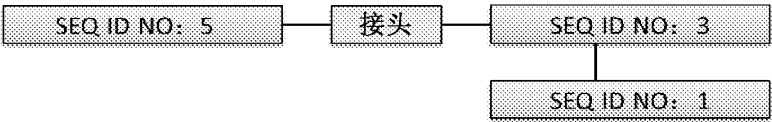


图 23



图 24

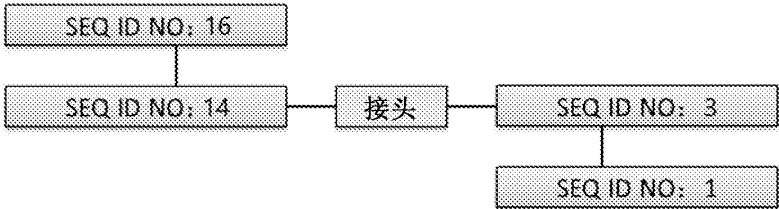


图 25

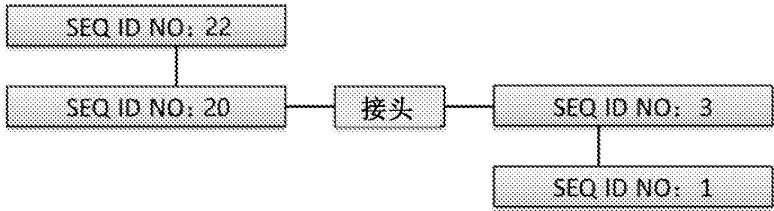


图 26

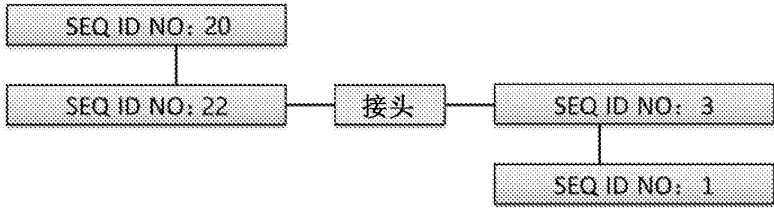


图 27

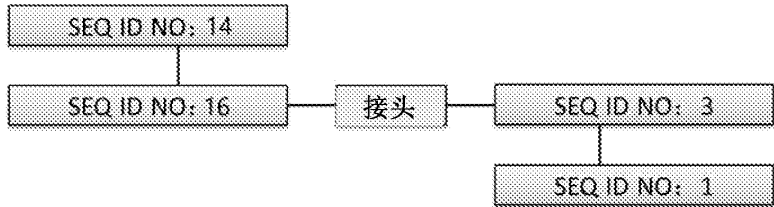


图 28

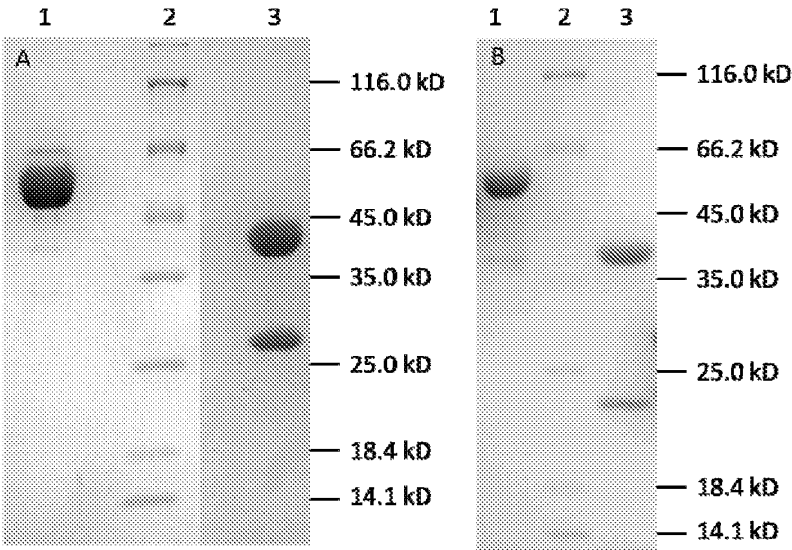


图 29

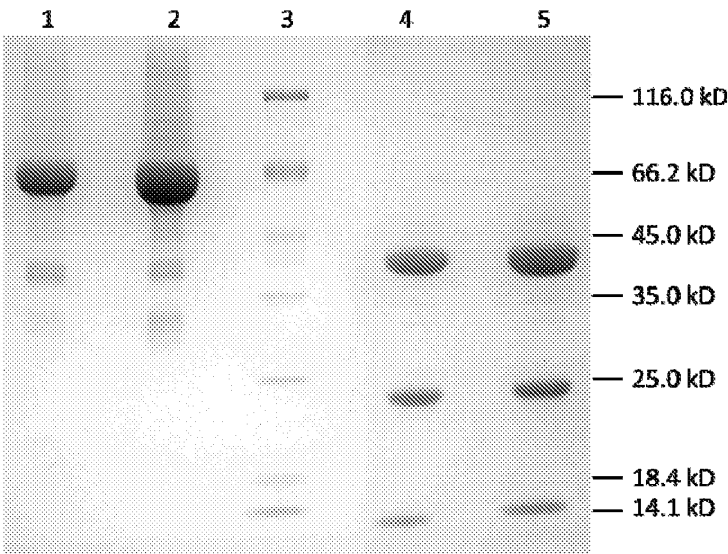


图 30

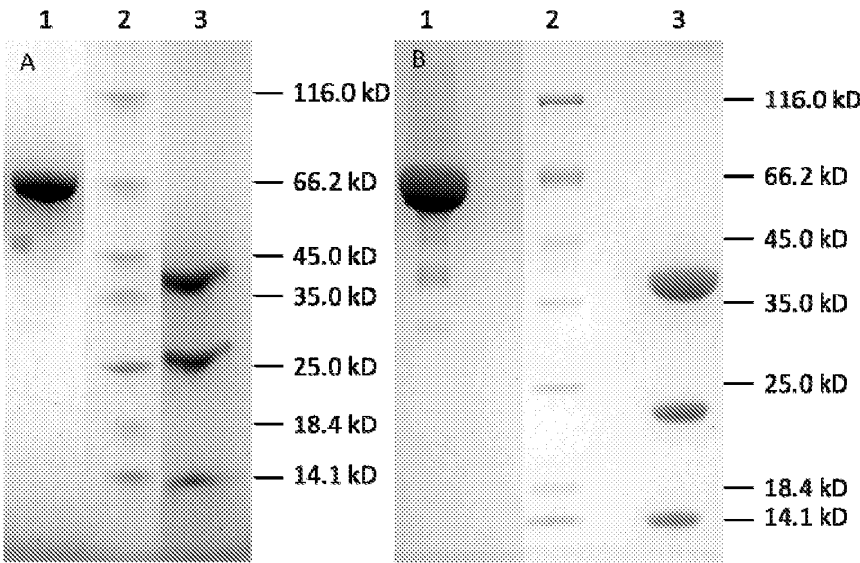


图 31

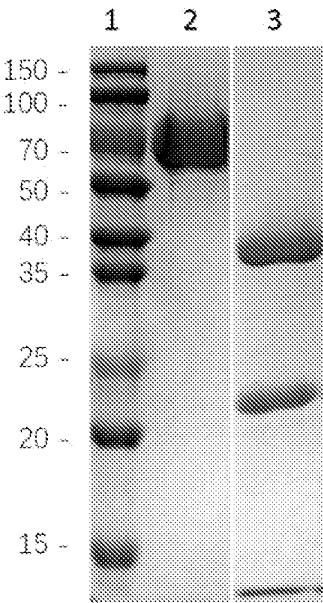


图 32

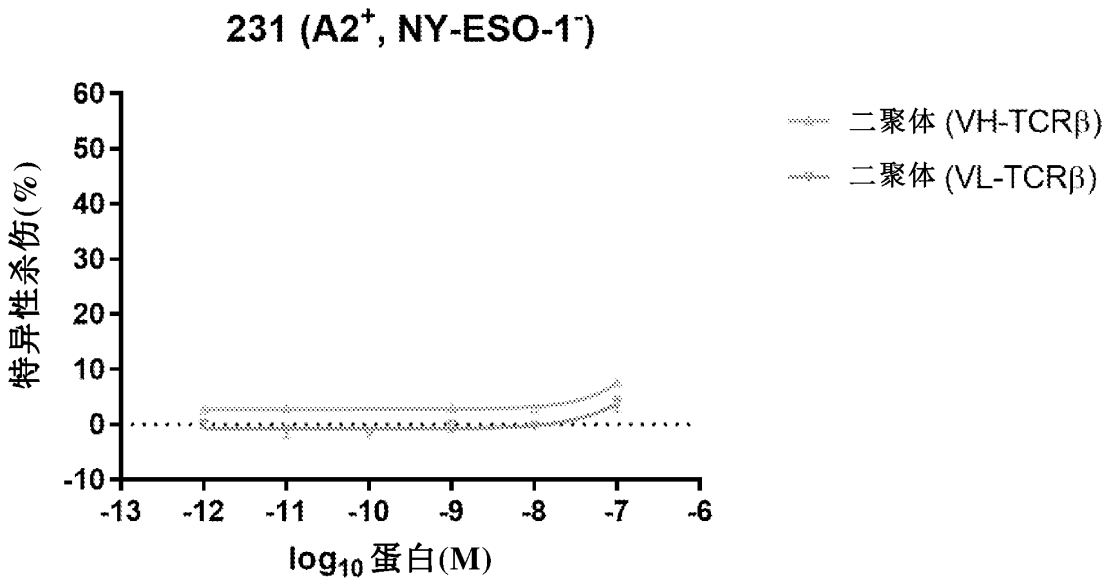


图 33a

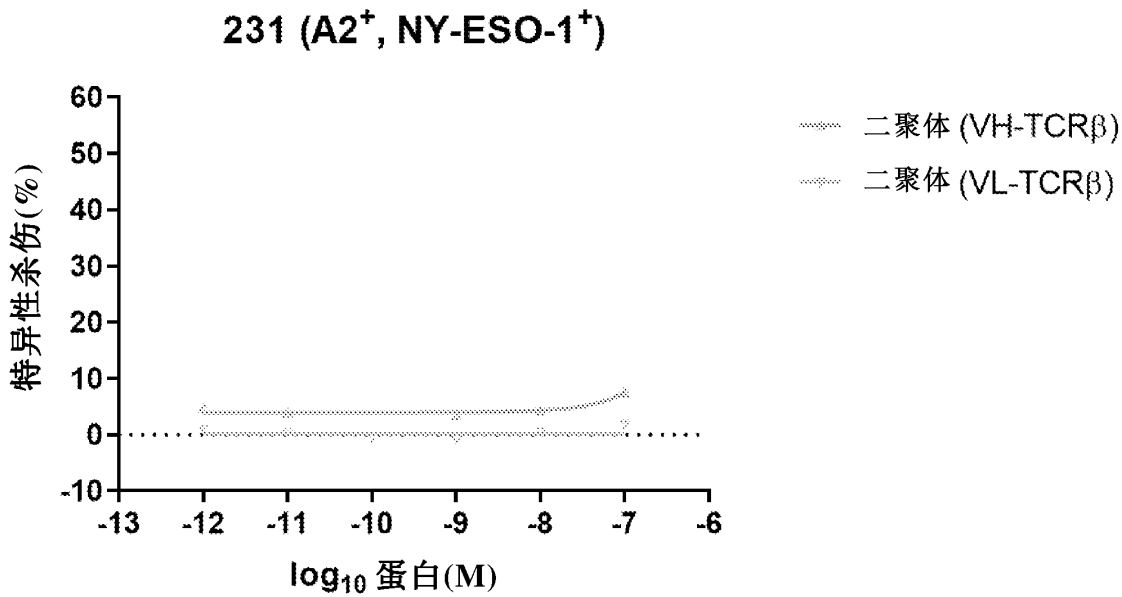


图 33b

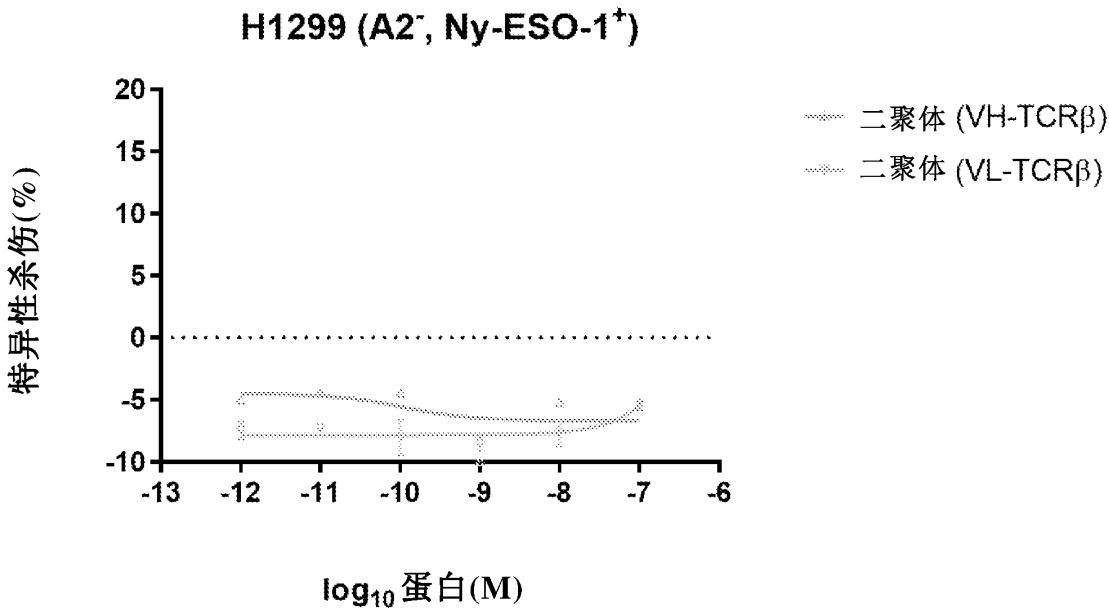


图 34a

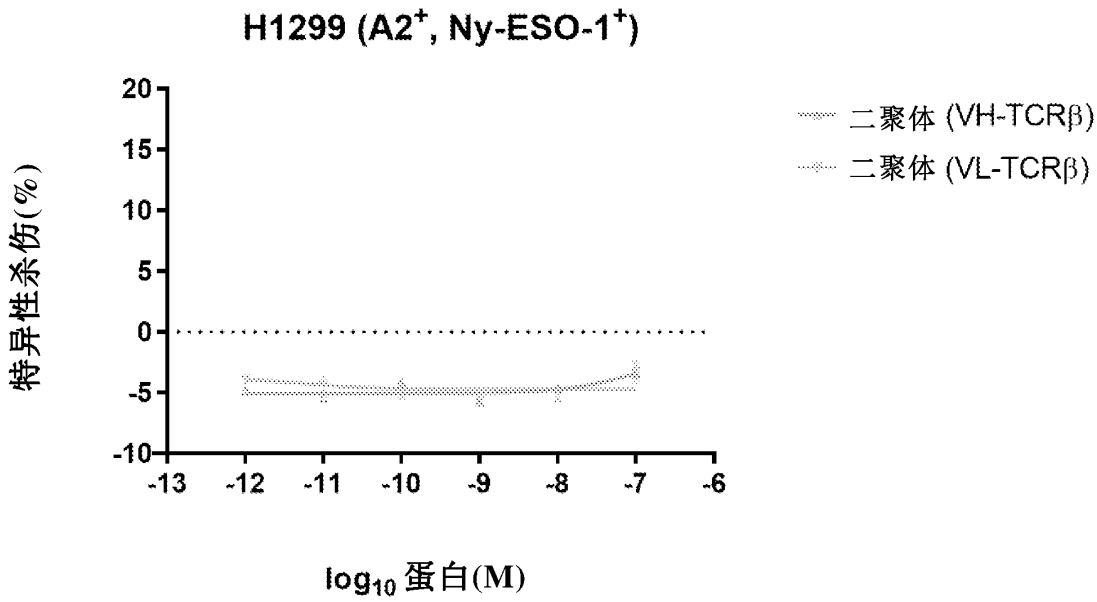


图 34b

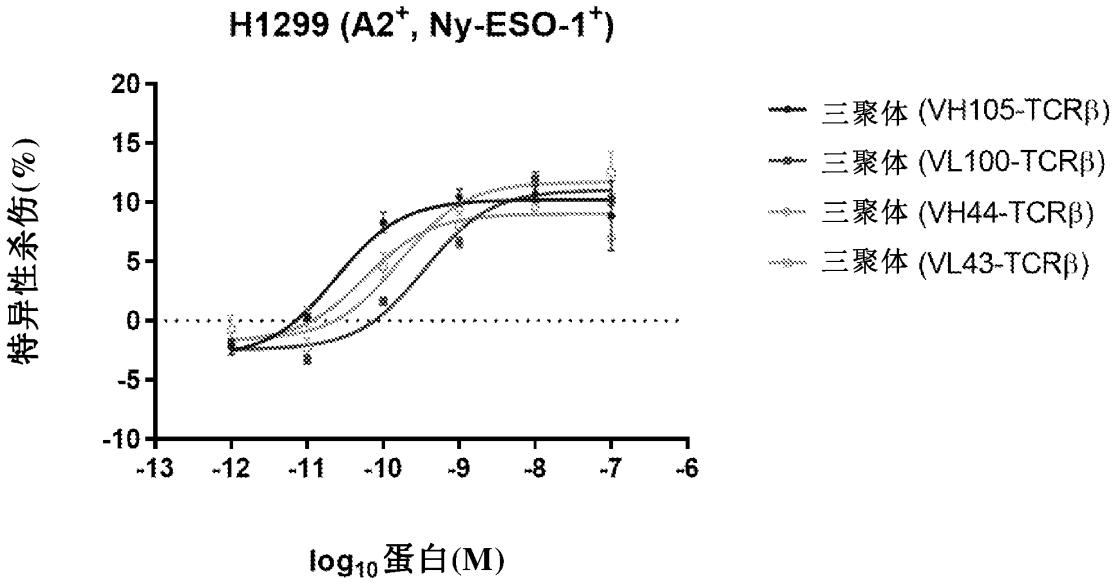


图 35a

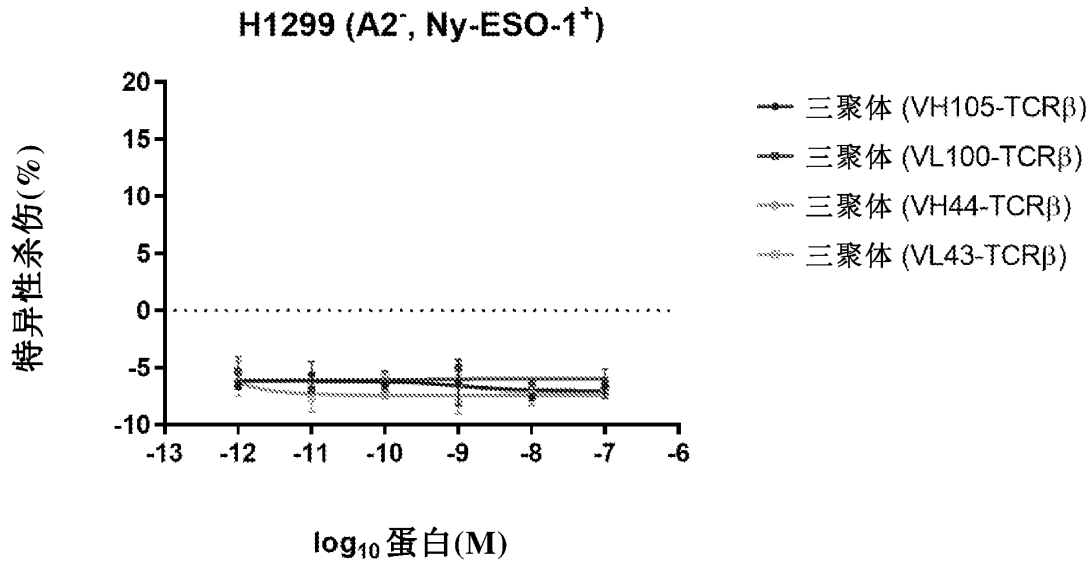


图 35b

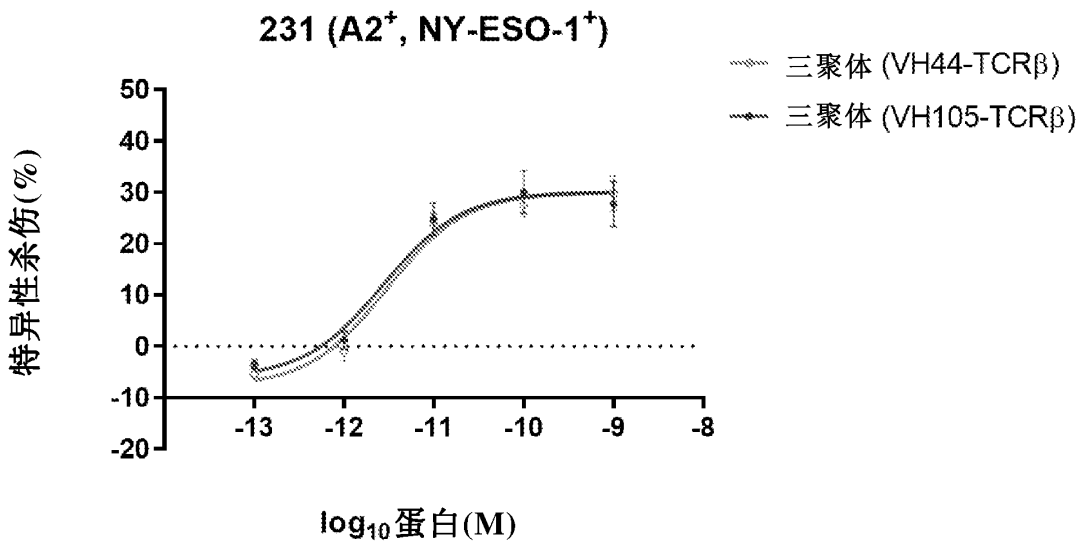


图 36a

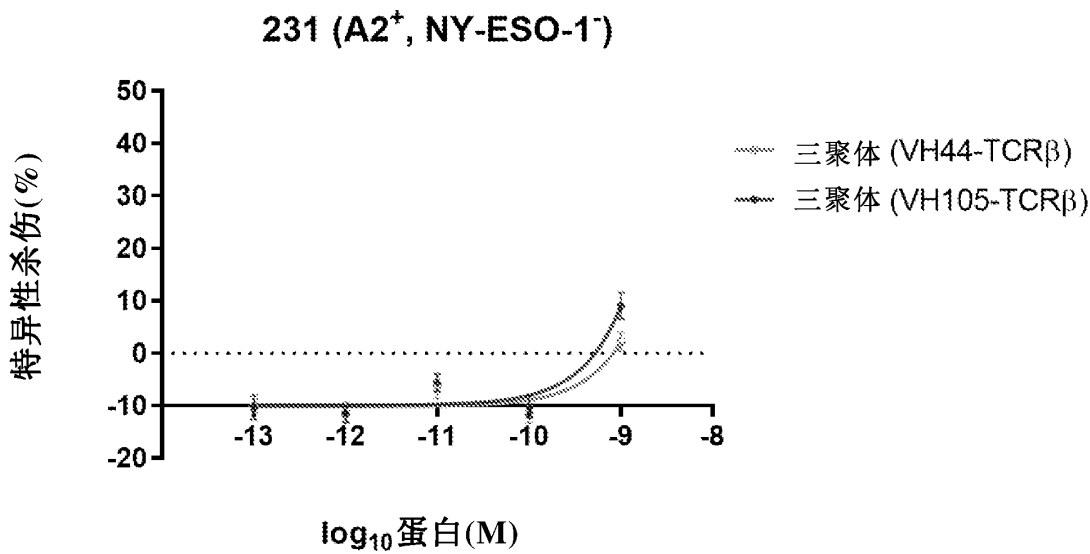


图 36 b

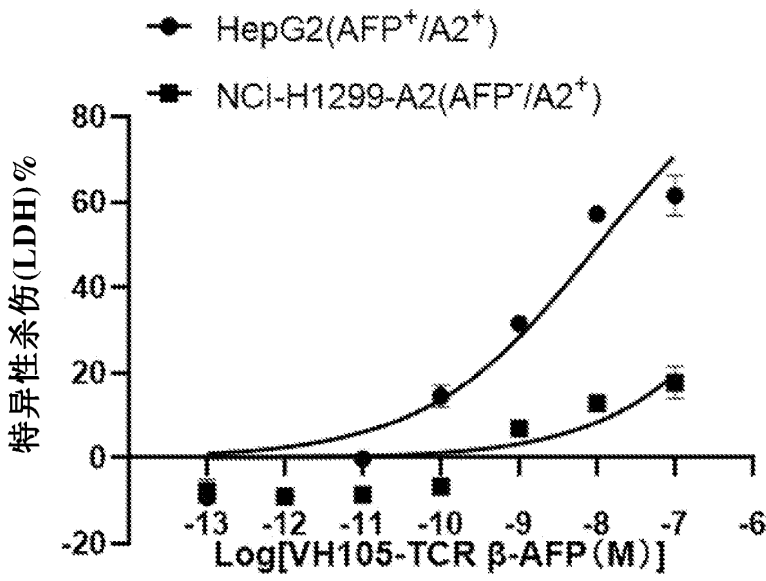


图 37