

GEDVEQSLFLSVREGDSSVINCTYTDSSSTYLYWYKQEPGAGLQLLTYIFSNMD
MKQDQRLTVLLNKKDKHLSLRIADTQTGDSAIYFCAEPNQAGTALIFGKGTTLS
VSSN (SEQ ID NO.1)

图 1a

ggagaggatgtggagcagagcttttcctgagtgccgagagggagacagctccgtataaactgcacttacacagacagct
cctccacctacttatactggataagcaagaacctggagcaggtccagttgctgacgtatatttttcaaatatggacatgaa
acaagaccaaagactcactgttctattgaataaaaaggataaacatctgtctctgcgcattgcagacaccagactggggact
cagctatctacttctgtgcagaacctaacaggcaggaactgctctgatctttgggaagggaaccaccttatcagtgagttcc
aat (SEQ ID NO.2)

图 1b

GEDVEQSLFLSVREGDSSVINCTYTDSSSTYLYWYKQEPGAGLQLLTYIFSNMD
MKQDQRLTVLLNKKDKHLSLRIADTQTGDSAIYFCAEPNQAGTALIFGKGTTLS
VSSNIQNPDPAVYQLRDSKSSDKSVCLFTDFDSQTNVSQSKSDSVYITDKTVLD
MRSMDFKSNSAVAWSNKSDFACANAFNNSIIPEDTFFPSPESSCDVKLVEKSFET
DTNLFQNLVIGFRILLKLVAGFNLLMTLRLWSS (SEQ ID NO.3)

图 1c

ggagaggatgtggagcagagcttttcctgagtgccgagagggagacagctccgtataaactgcacttacacagacagct
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agacaccttctccccagcccagaaagtccctgtgatgtcaagctggcgcagaaaagctttgaacagatacgaacctaaact
ttcaaacctgtcagtgattgggtccgaatcctcctcctgaaagtggccgggttaatctgtctcatgacgctgcggctgtggt
ccagc (SEQ ID NO.4)

图 1d

MKTFAGFSFLFLWLQLDCMSRGEDVEQSLFLSVREGDSSVINCTYTDSSSTYLY
WYKQEPGAGLQLLTYIFSNMDMKQDQRLTVLLNKKDKHLSLRIADTQTGDSAI
YFCAEPNQAGTALIFGKGTTLSVSSNIQNPDPAVYQLRDSKSSDKSVCLFTDFDS
QTNVSQSKDSDVYITDKTVLDMRSMDFKSNSAVAWSNKSDFACANAFNNSIIP
EDTFFPSPESSCDVKLVEKSFETDTNLFQNLVIGFRILLKLVAGFNLLMTLRL
WSS (SEQ ID NO.22)

图 1e

atgaagacatttgcctggattttcgttcctgttttgggtgcagctggactgtatgagtagaggagaggatgtggagcagagt
cttttcctgagtgccgagagggagacagctccgtataaactgcacttacacagacagctcctccacctactatactggtat
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gaaagttcctgtgatgtcaagctggcgcagaaaagcttgaacagatacgaacctaaacttcaaacctgtcagtgattgg
gttccgaatcctcctcctgaaagtggcgggtttaatctgtcatgacgtgcggctgtggtccagc

(SEQ ID NO.23)

图 1f

NAGVTQTPKFRVLKTGQSMTELLCAQDMNHEYMYWYRQDPGMGLRLIHYSVG
EGTTAKGEVPDGYNVSRLLKKQNFLGLLESAAPSQTSVYFCASSSLEDPEYQYFG
PGTRLTVT (SEQ ID NO.5)

图 2a

aatgctgggtgtcactcagacccccaaattccgggtcctgaagacaggacagagcatgacactgctgtgtgccaggatatg
aaccatgaatacatgtactggatcgacaagaccaggcatggggctgaggctgattcattactcagttgggtagggtacaa
ctgcccaggagaggtccctgatggctacaatgtctccagattaaaaaacagaatttctgctgggggtggagtcggctgc
tccctcccaaacatctgtgtacttctgtgccagcagttccctggaggaccctacgagcagttctggggccgggcaccagg
ctcacggtcaca (SEQ ID NO.6)

图 2b

NAGVTQTPKFRVLKTGQSM TLLCAQDMNHEYMYWYRQDPGMGLRLIHYSVG
EGTTAKGEVPDGYNVSRLLKKQNFLLGLESAAPSQTSVYFCASSSLEDPYEQYFG
PGTRLTVTEDLKNVFPPEVAVFEPSEAEISHTQKATLVCLATGFYDPDHVELSWW
VNGKEVHSGVSTDPQPLKEQPALNDSRYCLSSRLRVSATFWQNPRNHFRCQVQ
FYGLSENDEWTQDRAKPVTQIVSAEAWGRADCGFTSESYQQGVLSATILYEILL
GKATLYAVLV SALVLMAMVKRKDSRG (SEQ ID NO.7)

图 2c

aatgctggtgtcactcagacccccaaattccgggtcctgaagacaggacagagcatgacactgctgtgtgccaggatg
aacatgaatacatgtactggtatcgacaagaccaggcatggggctgaggctgattcattactcagttggtgagggtaaa
ctgccaaggagaggtccctgatggctacaatgtctccagattaaaaaacagaatttctgctgggggtggagtcggctgc
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gactgtggttcacctccgagttaccagcaaggggtcctgtctgccaccatcctctatgagatcttgtagggaagggcac
cttgatgccgtgctggtcagtgccctcgtgctgatggccatggtcaagagaaaggattccagagc

(SEQ ID NO.8)

图 2d

MSLGLLCCGAFSLLWAGPVNAGVTQTPKFRVLKTGQSM TLLCAQDMNHEYM
YWYRQDPGMGLRLIHYSVGEGTTAKGEVPDGYNVSRLLKKQNFLLGLESAAPS
QTSVYFCASSSLEDPYEQYFGPGTRLTVTEDLKNVFPPEVAVFEPSEAEISHTQK
ATLVCLATGFYDPDHVELSWWVNGKEVHSGVSTDPQPLKEQPALNDSRYCLSSR
LRVSATFWQNPRNHFRCQVQFYGLSENDEWTQDRAKPVTQIVSAEAWGRADC
GFTSESYQQGVLSATILYEILLGKATLYAVLV SALVLMAMVKRKDSRG

(SEQ ID NO.24)

图 2e

atgagcctcgggctcctgtgctgtggggcctttctctcctgtgggcagggtccagtgaatgctggtgtcactcagacccaaa
 attccgggtcctgaagacaggacagagcatgacactgctgtgtgccaggatatgaacctgaatacatgtactggtatcga
 caagaccagggcatggggctgaggctgattcattactcagttggtgagggtacaactgccaaaggagaggtccctgatggc
 tacaatgtctccagattaaaaaacagaatttctgctgggggtggagtcggctgctccctcccaaacatctgtgtacttctgtg
 ccagcagttccctggaggaccctacgagcagtacttcgggccgggcaccagggtcacggtcacaGaggacctgaaaa
 acgtgttcccaccgaggctgctgtgtttgagccatcagaagcagagatctccacacccaaaaggccacactggtgtgcc
 tggccacaggcttctaccccaccacgtggagctgagctggtgggtgaatgggaaggaggtgcacagtggggtcagcac
 agaccgcagccctcaaggagcagcccgccctcaatgactccagatactgcctgagcagccgctgagggtctcgcc
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 gatagggccaaacctgtcaccagatcgtcagcgccgaggcctggggtagagcagactgtggcttcacctccagtttac
 cagcaaggggtcctgtctgccaccatcctctatgagatcttgtaggggaaggccaccttgatgccgtgctggtcagtgcct
 cgtgctgatggccatggtcaagagaaaggattccagaggc (SEQ ID NO.25)

图 2f

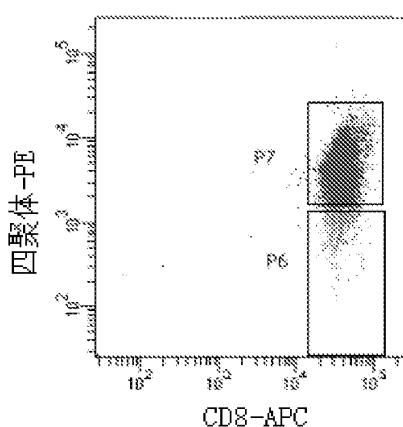


图 3

GEDVEQSLFLSVREGDSSVINCTYTDSSSTLYWYKQEPGAGLQLLTYIFSND
 MKQDQRLTVLLNKKDKHLSLRIADTQTGDSAIYFCAEPNQAGTALIFGKGTTLS
 VSSNIQNPDPAVYQLRDSKSSDKSVCLFTDFDSQTNVSQSKSDVYITDKCVLD
 MRSMDFKSNSAVAWSNKSDFACANAFNNIIPEDTFFPSPSS (SEQ ID NO.26)

图 4a

GGTGAAGATGTTGAACAGAGTCTTTTCCTGAGTGTCCGAGAGGGAGACAGC
TCCGTTATAAACTGCACTTACACAGACAGCTCCTCCACCTACTTATACTGGT
ATAAGCAAGAACCTGGAGCAGGTCTCCAGTTGCTGACGTATATTTTTTCAAA
TATGGACATGAAACAAGACCAAAGACTCACTGTTCTATTGAATAAAAAGGA
TAAACATCTGTCTCTGCGCATTGCAGACACCCAGACTGGGGACTCAGCTATC
TACTTCTGTGCAGAACCTAACCAGGCAGGAAGTCTGCTCTGATCTTTGGGAAGG
GAACCACCTTATCAGTGAGTTCCAATATCCAGAACCCTGACCCTGCCGTGTA
CCAGCTGAGAGACTCTAAGTCGAGTGACAAGTCTGTCTGCCTATTACCGAT
TTTGATTCTCAAACAAATGTGTCACAAAGTAAGGATTCTGATGTGTATATCA
CAGACAAATGTGTGCTAGACATGAGGTCTATGGACTTCAAGAGCAACAGTG
CTGTGGCCTGGAGCAACAAATCTGACTTTGCATGTGCAAACGCCTTCAACAA
CAGCATTATTCCAGAAGACACCTTCTTCCCCAGCCCAGAAAGTTCC

(SEQ ID NO.27)

图 4b

NAGVTQTPKFRVLKTGQSM TLLCAQDMNHEYMYWYRQDPGMGLRLIHYSVG
EGTTAKGEVPDGYNVSRLLKKQNFLLGLESAAPSQTSVYFCASSSLEDPYEQYFG
PGTRLTVTEDLKNVFPPEVAVFEPSEAEISHTQKATLVCLATGFYPDHVELSWW
VNGKEVHSGVCTDPQPLKEQPALNDSRYALSSRLRVSAFWQDPRNHFRCQVQ
FYGLSENDEWTQDRAKPVTQIVSAEAWGRAD (SEQ ID NO.28)

图 5a

AACGCGGGCGTGACCCAGACCCCAAATTCGCGGTCCTGAAGACAGGACAG
 AGCATGACACTGCTGTGTGCCCAGGATATGAACCATGAATACATGTACTGGT
 ATCGACAAGACCCAGGCATGGGGCTGAGGCTGATTCATTACTCAGTTGGTG
 AGGGTACAACCTGCCAAAGGAGAGGTCCCTGATGGCTACAATGTCTCCAGAT
 TAAAAAACAGAATTCCTGCTGGGGTTGGAGTCGGCTGCTCCCTCCCAAAC
 ATCTGTGTACTTCTGTGCCAGCAGTTCCCTGGAGGACCCCTACGAGCAGTAC
 TTCGGGCCGGGCACCAGGCTCACGGTCACAGAGGACCTGAAAAACGTGTTC
 CCACCCGAGGTCGCTGTGTTTGAGCCATCAGAAGCAGAGATCTCCACACCC
 AAAAGGCCACACTGGTGTGCCTGGCCACCGGTTTCTACCCCGACCACGTGG
 AGCTGAGCTGGTGGGTGAATGGGAAGGAGGTGCACAGTGGGGTCTGCACAG
 ACCCGCAGCCCCCTCAAGGAGCAGCCCGCCCTCAATGACTCCAGATACGCTCT
 GAGCAGCCGCCTGAGGGTCTCGGCCACCTTCTGGCAGGACCCCCGCAACCA
 CTTCCGCTGTCAAGTCCAGTTCTACGGGCTCTCGGAGAATGACGAGTGGACC
 CAGGATAGGGCCAAACCCGTCACCCAGATCGTCAGCGCCGAGGCCTGGGGT
 AGAGCAGAC (SEQ ID NO.29)

图 5b

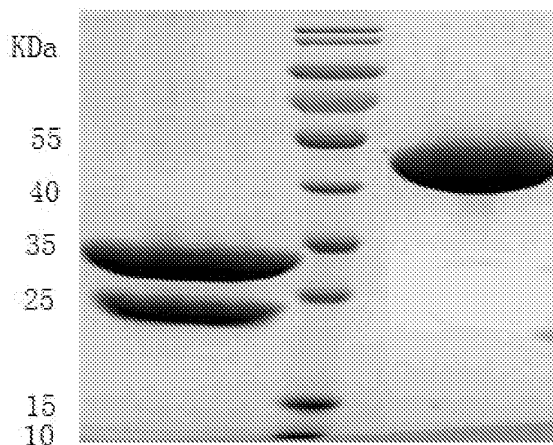


图 6

MGEDVEQSLSLSVREGDSVSINCTYTDSSSTLYWYKQEPGAGLQLLTYIFSNM
 DMKQDQRLTVSLNKKDKHLSLRIEDVQPGDSAIYFCAEPNQAGTALIFGKGTTL
 SVSSGGGSEGGGSEGGGSEGGGSEGGTGNAGVTQTPKYLSVKTGQSVTLQCAQ
 DMNHEYMYWYRQDPGQGLRLIHYSVGEGTTAKGEVPDRYNVSRLKKQNFL
 GIESVTPSDTSVYFCASSLEDPEYQYFGPGTRLTVT (SEQ ID NO.30)

图 7a

ATGGGTGAGGACGTGGAACAGAGCCTGAGCCTGAGCGTGCGTGAGGGCGAC
AGCGTTAGCATCAACTGCACCTACACCGATAGCAGCAGCACCTACCTGTATT
GGTACAAGCAGGAACCGGGTGCGGGCCTGCAACTGCTGACCTATATTTTCA
GCAACATGGACATGAAGCAGGATCAACGTCTGACCGTGAGCCTGAACAAGA
AAGATAAACACCTGAGCCTGCGTATCGAGGACGTTACGCCGGGTGATAGCG
CGATTTACTTCTGCGCGGAACCGAACCAAGCGGGTACCGCGCTGATCTTTGG
TAAAGGTACCACCCTGAGCGTGAGCAGCGGTGGCGGTAGCGAGGGCGGTGG
CAGCGAAGGTGGCGGTAGCGAGGGCGGTGGCAGCGAAGGTGGCACCGGTA
ACGCGGGCGTTACCCAGACCCCGAAGTATCTGAGCGTGAAAACCGGTCAAA
GCGTTACCCTGCAGTGCGCGCAAGACATGAACCACGAGTATATGTACTGGT
ATCGTCAGGATCCGGGTCAAGGCCTGCGTCTGATCCACTATAGCGTGGGCG
AGGGTACCACCGCGAAGGGTGAAGTGCCGGACCGTTATAACGTTAGCCGTC
TGAAGAAACAGAACTTTCTGCTGGGTATTGAAAGCGTGACCCCGAGCGACA
CCAGCGTTTACTTCTGCGCGAGCAGCAGCCTGGAGGATCCGTACGAACAAT
ATTTTGGTCCGGGCACCCGTCTGACCGTTACC (SEQ ID NO.31)

图 7b

MGEDVEQSLSLSVREGDSVSINCTYTDSSSTYLWYKQEPGAGLQLLTYIFSNM
DMKQDQRLTVSLNKKDKHLSLRIEDVQPGDSAIYFCAEPNQAGTALIFGKGTTL
SVSS (SEQ ID NO.32)

图 8a

ATGGGTGAGGACGTGGAACAGAGCCTGAGCCTGAGCGTGCGTGAGGGCGAC
AGCGTTAGCATCAACTGCACCTACACCGATAGCAGCAGCACCTACCTGTATT
GGTACAAGCAGGAACCGGGTGCGGGCCTGCAACTGCTGACCTATATTTTCA
GCAACATGGACATGAAGCAGGATCAACGTCTGACCGTGAGCCTGAACAAGA
AAGATAAACACCTGAGCCTGCGTATCGAGGACGTTACGCCGGGTGATAGCG
CGATTTACTTCTGCGCGGAACCGAACCAAGCGGGTACCGCGCTGATCTTTGG
TAAAGGTACCACCCTGAGCGTGAGCAGC (SEQ ID NO.33)

图 8b

NAGVTQTPKYLSVKTGQSVTLQCAQDMNHEMYWYRQDPGQGLRLIHYSVG
EGTTAKGEVPDRYNVSRLLKKQNFLLGIESVTPSDTSVYFCASSSLEDPYEQYFGP
GTRLTVT (SEQ ID NO.34)

图 9a

AACGCGGGCGTTACCCAGACCCCGAAGTATCTGAGCGTGAAAACCGGTCAA
AGCGTTACCCTGCAGTGCGCGCAAGACATGAACCACGAGTATATGTACTGG
TATCGTCAGGATCCGGGTCAAGGCCTGCGTCTGATCCACTATAGCGTGGGCG
AGGGTACCACCGCGAAGGGTGAAGTGCCGGACCGTTATAACGTTAGCCGTC
TGAAGAAACAGAACTTTCTGCTGGGTATTGAAAGCGTGACCCCGAGCGACA
CCAGCGTTTACTTCTGCGCGAGCAGCAGCCTGGAGGATCCGTACGAACAAT
ATTTTGGTCCGGGCACCCGTCTGACCGTTACC (SEQ ID NO.35)

图 9b

GGGSEGGGSEGGGSEGGGSEGGTG (SEQ ID NO.36)

图 10a

GGTGGCGGTAGCGAGGGCGGTGGCAGCGAAGGTGGCGGTAGCGAGGGCGG
TGGCAGCGAAGGTGGCACCGGT (SEQ ID NO.37)

图 10b



图 11

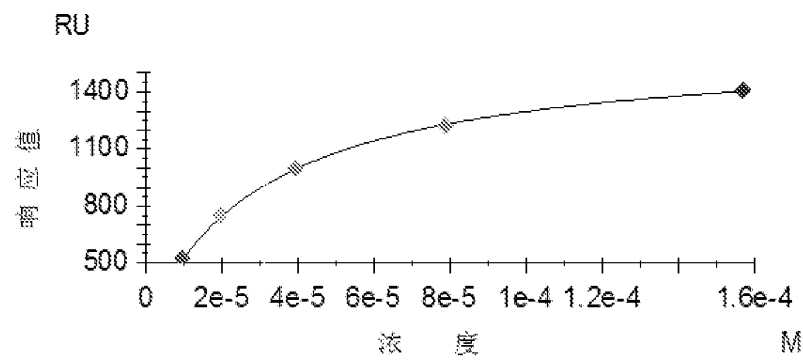


图 12

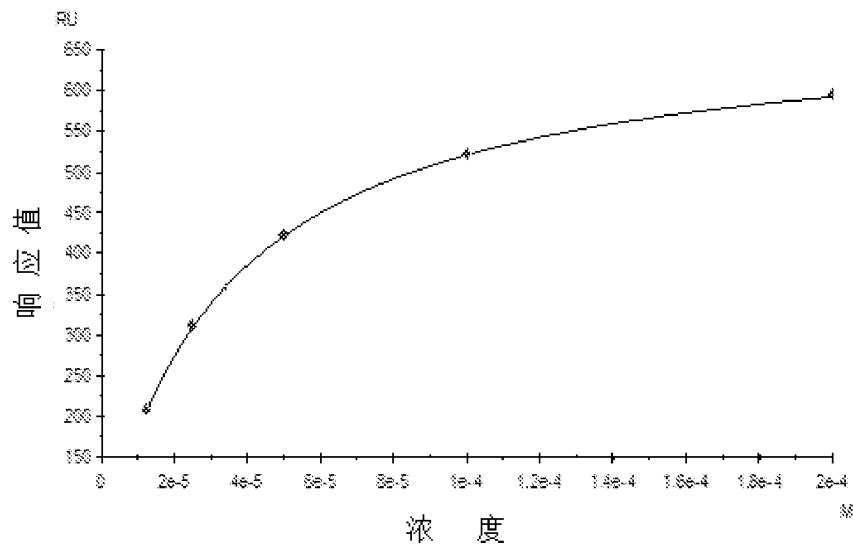


图 13

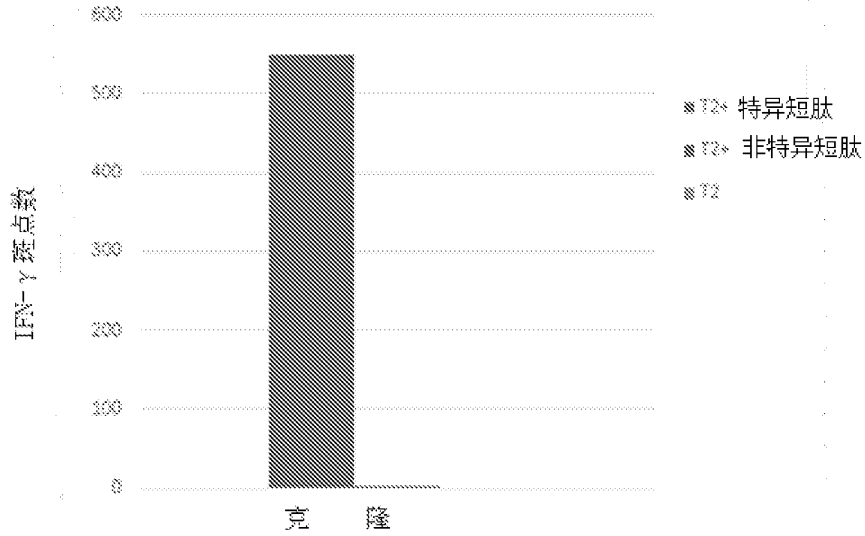


图 14

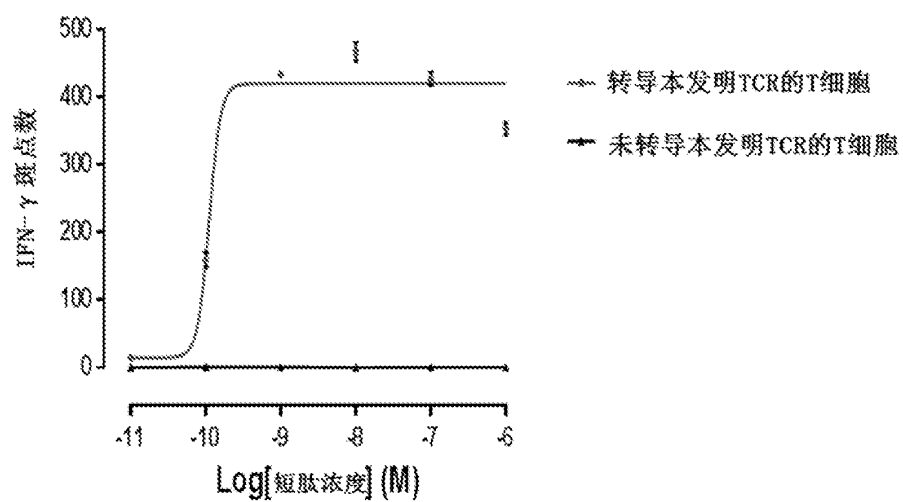


图 15

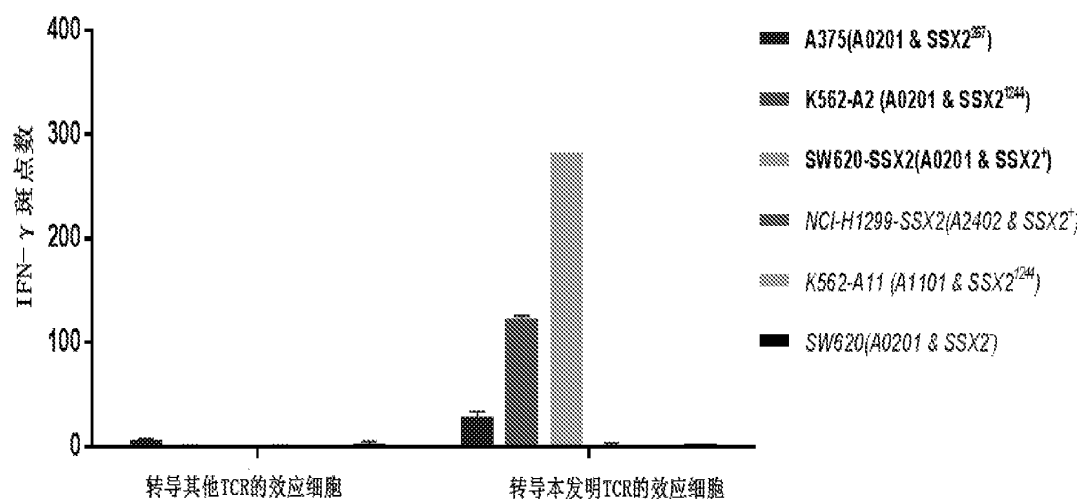


图 16