

QKEVEQNSGPLSVPEGAIASLNCTYSDRVSQSFFWYRQYSGKSPELIMSIYSNGD
KEDGRFTAQLNKASQYVSLIRDSQPSDSATYLCASLKGNNDMRFGAGTRLTVK
P (SEQ ID NO: 1)

图 1a

Cagaaggaggtggagcagaattctggacccctcagtggtccagagggagccattgcctctctcaactgcacttacagtgacc
gagttcccagtccttctctgtgtacagacaatattctgggaaaagccctgagtgataatgtccatatactccaatggtgacaaa
gaagatggaaggtttacagcacagctcaataaagccagccagtgatgtttctctgtcatcagagactcccagcccagtgattc
agccacctacctctgtgctccctcaagggtacaatgacatgcgtttggagcagggaccagactgacagtaaaacca
(SEQ ID NO: 2)

图 1b

QKEVEQNSGPLSVPEGAIASLNCTYSDRVSQSFFWYRQYSGKSPELIMSIYSNGD
KEDGRFTAQLNKASQYVSLIRDSQPSDSATYLCASLKGNNDMRFGAGTRLTVK
PNIQNPDPAVYQLRDSKSSDKSVCLFTDFDSQTNVSQKSDSVYITDKTVLDMR
SMDFKSNSAVAWSNKSDFACANAFNNSIIPEDTFFSPPESSCDVKLVEKSFETDT
NLNFQNLVIGFRILLKLVAGFNLLMTLRLWSS (SEQ ID NO: 3)

图 1c

cagaaggaggtggagcagaattctggacccctcagtggtccagagggagccattgcctctctcaactgcacttacagtgacc
gagttcccagtccttctctgtgtacagacaatattctgggaaaagccctgagtgataatgtccatatactccaatggtgacaaa
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ccttcttcccagcccagaaagtctgtgatgtcaagctggtcagaaaaagctttgaaacagatacgaacctaaactttcaa
acctgtcagtgattgggttccgaatcctcctctgaaagtggccgggtttaatctgtcatgacgctgcggctgtgtccagc
(SEQ ID NO: 4)

图 1d

MKSLRVLLVILWLQLSWVWSQQKEVEQNSGPLSVPEGAIASLNCTYSDRVSQSF
FWYRQYSGKSPELIMSIYSNGDKEDGRFTAQLNKASQYVSLIRDSQPSDSATYL
CASLKGNNDMRFGAGTRLTVKPNIQNPDPVYQLRDSKSSDKSVCLFTDFDSQT
NVSQKSDSVYITDKTVLDMRSMDFKNSAVAWSNKSDFACANAFNNSIIPEDT
FFSPPESSCDVKLVEKSFETDTNLNFQNLVIGFRILLKLVAGFNLLMTLRLWSS
(SEQ ID NO: 22)

图 1e

atgaaatccttgagagttttactagtgatcctgtggcttcagttgagctgggttggagccaacagaaggaggtggagcagaat
tctggaccctcagtggtccagaggagccattgcctctctcaactgcacttacagtaccgagttcccagtccttcttctgga
cagacaataattctgggaaaagccctgagttgataatgtccatatactccaatggtgacaaagaagatggaaggttacagcac
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cctgtgatgtcaagctggtcgagaaaagccttgaacagatacgaaaccttaaaacctgtcagtgattgggtccgaa
tctctctcctgaaagtggccgggttaatctgtctatgacgtcgcgctgtgtgtccagc (SEQ ID NO: 23)

图 1f

GAGVSQSPRYKVAKRQDVALRCDPISGHVSLFWYQQALGQGPEFLTYFQNEA
QLDKSGLPSDRFFAERPEGSVSTLKIQRQTQQEDSAVYLCASSSSRWEQQFFGPGT
RLTVL (SEQ ID NO: 5)

图 2a

ggtgctggagtctcccagtccttaggtacaaagtcgcaaagagaggacaggatgtagctctcaggtgtgatccaatttcgg
gtcatgtatcccttttttggtaccaacagccctggggcagggggccagagtttctgacttatttcagaatgaagctcaactaga
caaatcggggctcccagtgatcgcttcttgcagaaaggcctgagggatccgtctccactctgaagatccagcgcacacag
caggaggactccgctgtatctctgtgccagcagctccagtaggtgggagcagcagttcttcggggcagggacacggctc
accgtgcta (SEQ ID NO: 6)

图 2b

GAGVSQSPRYKVAKRQDVALRCDPISGHVSLFWYQQALGQGPEFLTYFQNEA
QLDKSGLPSDRFFAERPEGSVSTLKIQRQTQQEDSAVYLCASSSSRWEQQFFGPGT
RLTVLEDLKNVFPPEVAVFEPSEAEISHTQKATLVCLATGFYDPDHVELSWVNG
KEVHSGVSTDPQPLKEQPALNDSRYCLSSRLRVSATFWQNPRNHFRCQVQFYGL
SENDEWTQDRAKPVTQIVSAEAWGRADCGFTSES YQQGVLSATILYEILLGKAT
LYAVLVSAVLVLMAMVKRKDSRG (SEQ ID NO: 7)

图 2c

Ggtgctggagtctcccagtccttaggtacaaagtcgcaaagagaggacaggatgtagctctcaggtgtgatccaatttcgg
gtcatgtatcccttttttggtaccaacagccctggggcagggggccagagtttctgacttatttcagaatgaagctcaactaga
caaatcggggctcccagtgatcgcttcttgcagaaaggcctgagggatccgtctccactctgaagatccagcgcacacag
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gccgtgtgtcagtgccctcgtgtgtatggccatggtcaagagaaggaattccagagc (SEQ ID NO: 8)

图 2d

MGTRLLCWVVLGFLGTDHTGAGVSQSPRYKVAKRQDVALRCDPISGHVSLFW
YQQALGQGPEFLTYFQNEAQLDKSGLPSDRFFAERPEGSVSTLKIQRQTQQEDSAV
YLCASSSSRWEQQFFGPGTRLTVLEDLKNVFPPEVAVFEPSEAEISHTQKATLVC
LATGFYPDHVELSWVNGKEVHSGVSTDPQPLKEQPALNDSRYCLSSRLRVSA
TFWQNPРНHFRCQVQFYGLSENDEWTQDRAKPVTQIVSAEAWGRADCGFTSES
YQQGVLSATILYEILLGKATLYAVLVSALVLMAMVKRKDSRG (SEQ ID NO: 24)

图 2e

atgggcaccaggctcctctgctgggtggctcctgggttctaggacagatcacacaggctgctggagtctccagtcacctta
ggtacaaagtcgcaaagagaggacaggatgtagctctcagggtgatccaatttcgggtcatgtatcccttttttggtaccaac
aggccctggggcaggggcccagagttctgacttattccagaatgaagctcaactagacaaatcggggctgcccagtgatcg
cttctttgcagaaaggcctgagggatccgtctccactctgaagatccagcgcacacagcaggaggactccgccgtgtatctct
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acccgcagccctcaaggagcagcccgccctcaatgactccagatactgctgagcagccgctgaggggtctcgccacc
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gggccaacctgtcacccagatcgtcagcgccgaggcctgggtagagcagactgtggcttcacctccgagtccttaccagc
aaggggtcctgtctgccaccatctctatgagatcttctaggggaaggccacctgtatgccgtgctggctcagtgccctcgtgc
tgatggccatggtcaagagaaaggattccagaggc (SEQ ID NO: 25)

图 2f

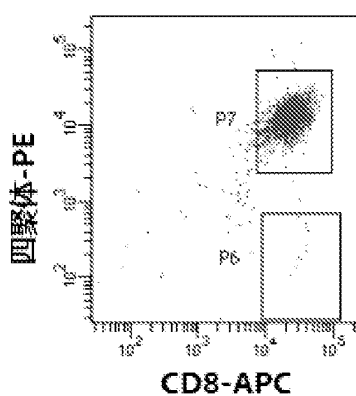


图 3

MQKEVEQNSGPLSVPEGAIASLNCTYSDRVVSQSFFWYRQYSGKSPELIMSIYSNG
DKEDGRFTAQLNKASQYVSLLRDSQPDSATYLCASLKGNNDMRFGAGTRLTV
KPNIQNPDPAVYQLRDSKSSDKSVCLFTDFDSQTNVSQSKSDVYITDKCVLDM
RSMDFKSNSAVAWSNKSDFACANAFNNSIIPEDTFFPSPESS (SEQ ID NO: 26)

图 4a

ATGCAGAAAGAAGTGGAACAGAATTCTGGACCCCTCAGTGTTCCAGAGGGA
GCCATTGCCTCTCTCAACTGCACTTACAGTGACCGAGTTTCCCAGTCCTTCTT
CTGGTACAGACAATATTCTGGGAAAAGCCCTGAGTTGATAATGTCCATATAC
TCCAATGGTGACAAAGAAGATGGAAGGTTTACAGCACAGCTCAATAAAGCC
AGCCAGTATGTTTCTCTGCTCATCAGAGACTCCCAGCCCAGTGATTACAGCCAC
CTACCTCTGTGCCTCCCTCAAGGGTAACAATGACATGCGCTTTGGAGCAGGG
ACCAGACTGACAGTAAAACCAAATATCCAGAACCCTGACCCTGCCGTGTACC
AGCTGAGAGACTCTAAGTCGAGTGACAAGTCTGTCTGCCTATTCACCGATTTT
GATTCTCAAACAAATGTGTACAAAGTAAGGATTCTGATGTGTATATCACAG
ACAAATGTGTGCTAGACATGAGGTCTATGGACTTCAAGAGCAACAGTGCTGT
GGCCTGGAGCAACAAATCTGACTTTGCATGTGCAAACGCCTTCAACAACAGC
ATTATTCCAGAAGACACCTTCTTCCCAGCCCAGAAAGTTCCTAA (SEQ ID
NO: 27)

图 4b

MGAGVSQSPRYKVAKRQDVALRCDPISGHVSLFWYQQALGQGPEFLTYFQNE
AQLDKSGLPSDRFFAERPEGSVSTLKIQRTOQEDSAVYLCASSSSRWEQQFFGPG
TRLTVLEDLKNVFPPEVAVFEPSEAEISHTQKATLVCLATGFYPDHVELSWWN
GKEVHSGVCTDPQPLKEQPALNDSRYALSSRLRVSATFWQDPRNHFRQVQFY
GLSENDEWTQDRAKPVTQIVSAEAWGRAD (SEQ ID NO: 28)

图 5a

ATGGGTGCAGGTGTTAGCCAGTCCCCTAGGTACAAAGTCGCAAAGAGAGGA
CAGGATGTAGCTCTCAGGTGTGATCCAATTTTCGGGTCATGTATCCCTTTTTTG
GTACCAACAGGCCCTGGGGCAGGGGCCAGAGTTTCTGACTTATTTCCAGAAT
GAAGCTCAACTAGACAAATCGGGGCTGCCCAGTGATCGCTTCTTTGCAGAAA
GGCCTGAGGGATCCGTCTCCACTCTGAAGATCCAGCGCACACAGCAGGAGG
ACTCCGCCGTGTATCTCTGTGCCAGCAGCTCCAGTAGGTGGGAGCAGCAGTT
CTTCGGGCCAGGGACACGGCTCACCGTGCTAGAGGACCTGAAAAACGTGTTC
CCACCCGAGGTCGCTGTGTTTGAGCCATCAGAAGCAGAGATCTCCACACCC
AAAAGGCCACACTGGTGTGCCTGGCCACCGGTTTCTACCCCGACCACGTGGA
GCTGAGCTGGTGGGTGAATGGGAAGGAGGTGCACAGTGGGGTCTGCACAGA
CCCGCAGCCCCTCAAGGAGCAGCCCGCCCTCAATGACTCCAGATACGCTCTG
AGCAGCCGCCTGAGGGTCTCGGCCACCTTCTGGCAGGACCCCCGCAACCACT
TCCGCTGTCAAGTCCAGTTCTACGGGCTCTCGGAGAATGACGAGTGGACCCA
GGATAGGGCCAAACCCGTCACCCAGATCGTCAGCGCCGAGGCCTGGGGTAG
AGCAGACTAA (SEQ ID NO: 29)

图 5b



图 6a

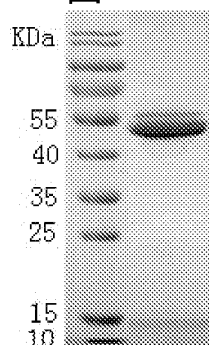


图 6b

QKEVEQNSGPLSVPEGENVSINCTYSDRVSQSFFWYRQYSGKSPELIMSIYSNGD
KEDGRFTAQLNKASQYVSLEIRDVQPSDSATYLCASLKGNNDMRFGAGTRLTV
KPGGGSEGGGSEGGGSEGGGSEGGTGGAGVSQSPRYLSVKRGQDVTLRCDPISG
HVSLEFWYQQAPGQGPEFLTYFQNEAQLDKSGLPSDRFNAERPEGSVSTLKIQRV
QPEDSAVYLCASSSRWEQQQFFGPGTRLTVD (SEQ ID NO: 30)

图 7a

CAGAAAGAGGTGGAACAAAACAGCGGTCCGCTGAGCGTGCCGGAGGGTGAA
AACGTTAGCATCAACTGCACCTACAGCGACCGTGTTAGCCAGAGCTTCTTTT
GGTACCGTCAATATAGCGGTAAAAGCCCGGAGCTGATCATGAGCATTATAG
CAACGGTGACAAGGAAGATGGCCGTTTCACCGCGCAGCTGAACAAAGCGAG
CCAATACGTGAGCCTGGAGATTTCGTGACGTTTCAGCCGAGCGATAGCGCGACC
TATCTGTGCGCGAGCCTGAAGGGTAACAACGATATGCGTTTTGGTGCGGGCA
CCCGTCTGACCGTGAAACCGGGTGGCGGTAGCGAGGGCGGTGGCAGCGAAG
GTGGCGGTAGCGAGGGCGGTGGCAGCGAAGGTGGCACCAGGTGGCGCGGGTG
TGAGCCAGAGCCCGCGTTACCTGAGCGTGAAGCGTGGTCAAGACGTTACCCT
GCGTTGCGATCCGATCAGCGGCCACGTTAGCCTGTTCTGGTATCAGCAAGCG
CCGGGTGAGGGTCCGGAGTTCCTGACCTATTTTCAGAACGAAGCGCAACTGG
ACAAGAGCGGTCTGCCGAGCGATCGTTTTAACGCGGAGCGTCCGGAAGGCA
GCGTGAGCACCTGAAAATTCAGCGTGTGCAACCGGAGGACAGCGCGGTTTA
TCTGTGCGCGAGCAGCAGCAGCCGTTGGGAACAGCAATTCTTTGGTCCGGGT
ACCCGCCTGACCGTTGAT (SEQ ID NO: 31)

图 7b

QKEVEQNSGPLSVPEGENVSINCTYSDRVVSQSFFWYRQYSGKSPELIMSIYSNGD
KEDGRFTAQLNKASQYVSLEIRDVQPSDSATYLCASLKGNNDMRFGAGTRLTV
KP (SEQ ID NO: 32)

图 8a

CAGAAAGAGGTGGAACAAAACAGCGGTCCGCTGAGCGTGCCGGAGGGTGAA
AACGTTAGCATCAACTGCACCTACAGCGACCGTGTTAGCCAGAGCTTCTTTT
GGTACCGTCAATATAGCGGTAAAAGCCCGGAGCTGATCATGAGCATTATAG
CAACGGTGACAAGGAAGATGGCCGTTTCACCGCGCAGCTGAACAAAGCGAG
CCAATACGTGAGCCTGGAGATTTCGTGACGTTTCAGCCGAGCGATAGCGCGACC
TATCTGTGCGCGAGCCTGAAGGGTAACAACGATATGCGTTTTGGTGCGGGCA
CCCGTCTGACCGTGAAACCG (SEQ ID NO: 33)

图 8b

GAGVSQSPRYLSVKRGQDVTLRCDPISGHVSLFWYQQAPGQGPEFLTYFQNEAQ
LDKSGLPSPDRFNAERPEGSVSTLKIQRVQPEDSAVYLCASSSSRWEQQFFGPGTR
LTVD (SEQ ID NO: 34)

图 9a

GGCGCGGGTGTGAGCCAGAGCCCGCGTTACCTGAGCGTGAAGCGTGGTCAA
GACGTTACCCTGCGTTGCGATCCGATCAGCGGCCACGTTAGCCTGTTCTGGTA
TCAGCAAGCGCCGGGTTCAGGGTCCGGAGTTCCTGACCTATTTTCAGAACGAA
GCGCAACTGGACAAGAGCGGTCTGCCGAGCGATCGTTTTAACGCGGAGCGTC
CGGAAGGCAGCGTGAGCACCTGAAAATTCAGCGTGTGCAACCGGAGGACA
GCGCGGTTTATCTGTGCGCGAGCAGCAGCAGCCGTTGGGAACAGCAATTCTT
TGGTCCGGGTACCCGCCTGACCGTTGAT (SEQ ID NO: 35)

图 9b

GGGSEGGGSEGGGSEGGGSEGGTG (SEQ ID NO: 36)

图 10a

GGTGGCGGTAGCGAGGGCGGTGGCAGCGAAGGTGGCGGTAGCGAGGGCGGT
GGCAGCGAAGGTGGCACCGGT (SEQ ID NO: 37)

图 10b

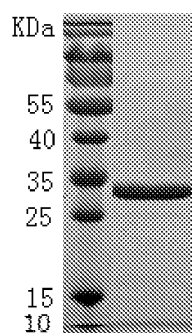


图 11

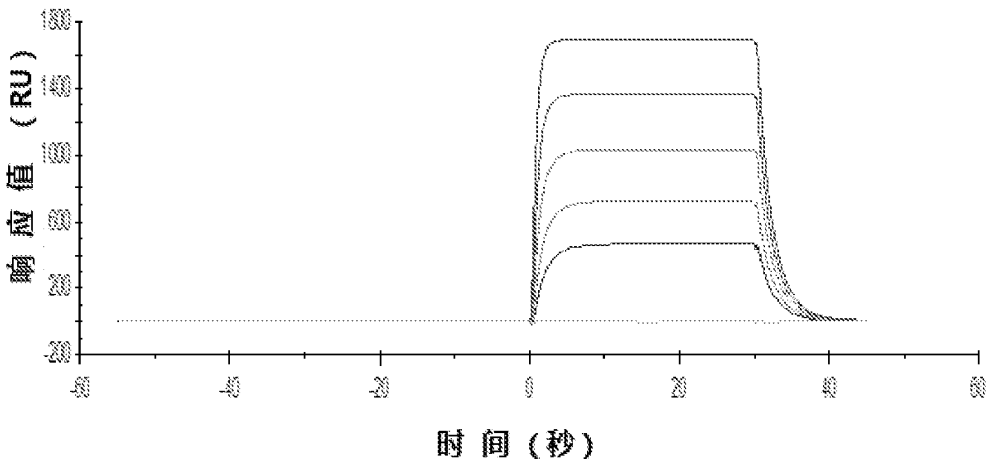


图 12

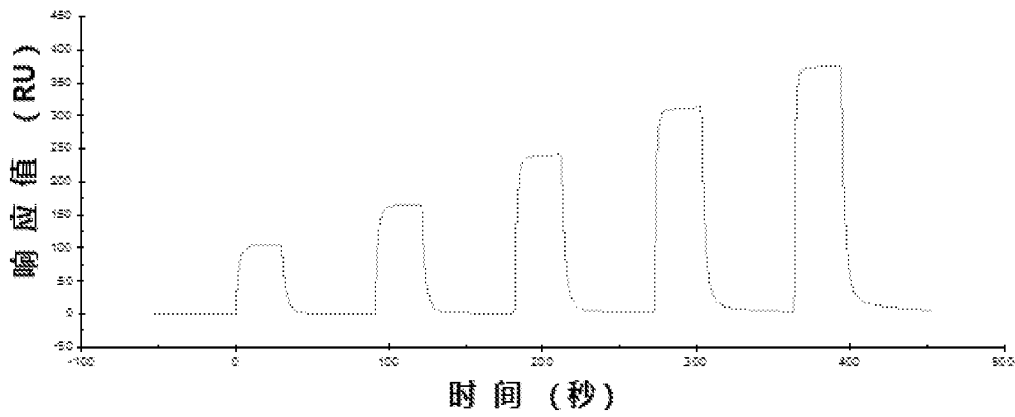


图 13

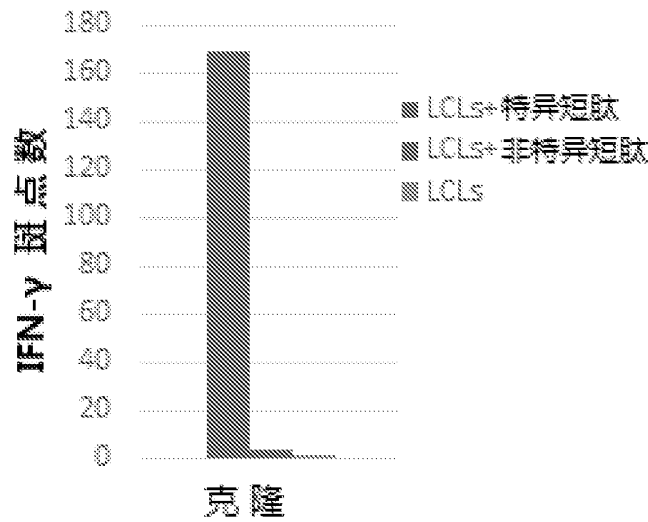


图 14

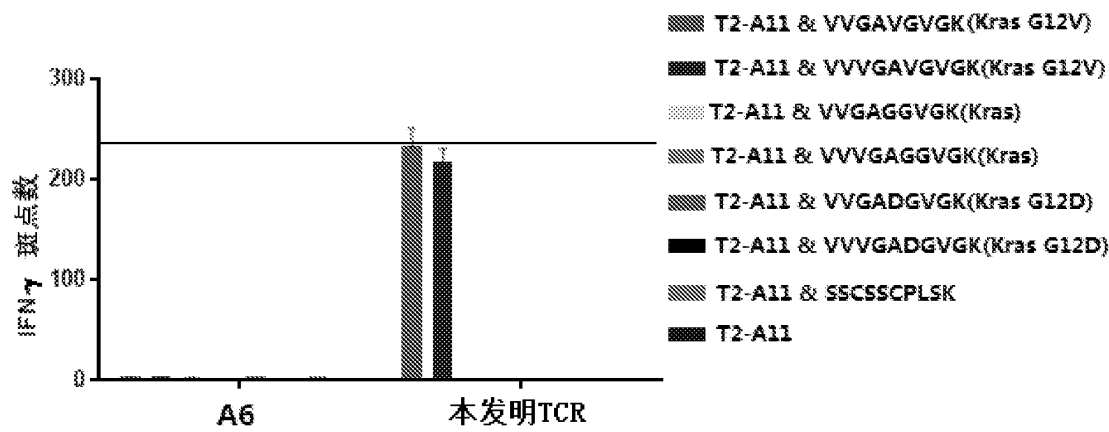


图 15

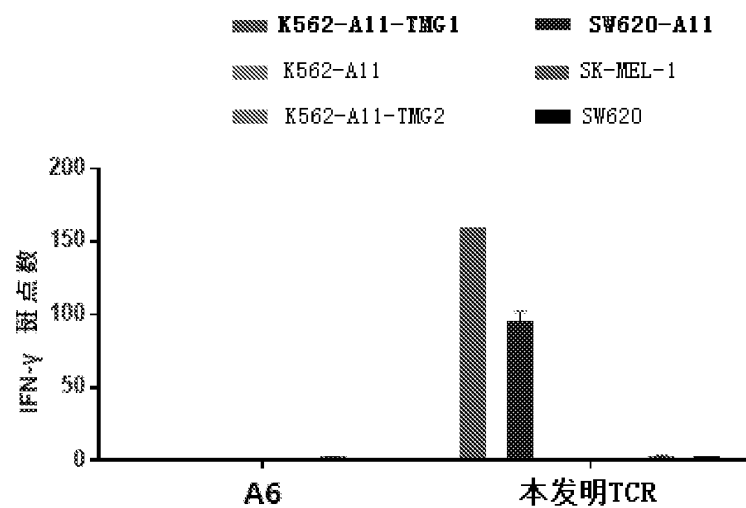


图 16

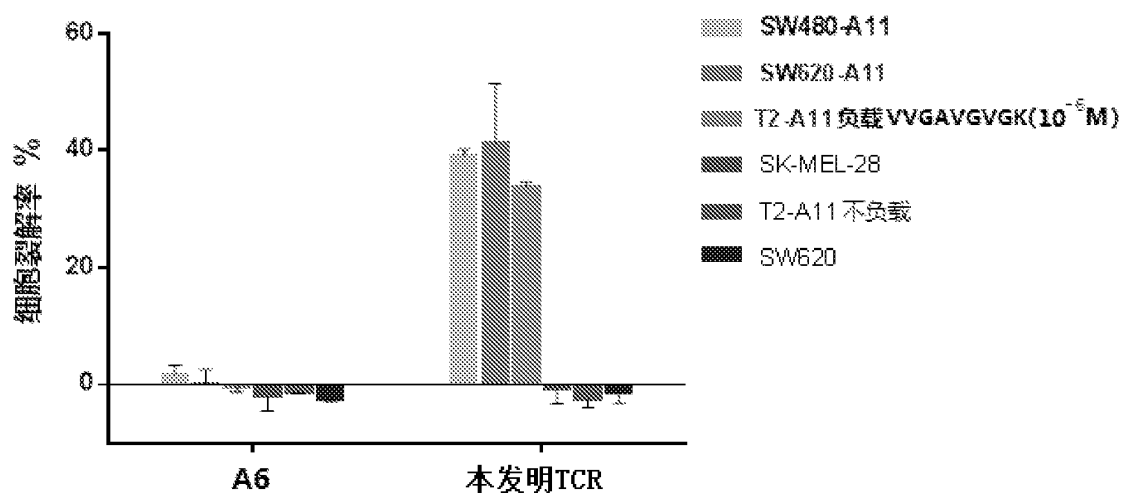


图 17