Figure 1

(a) Light Chain variable region of antibody CA028_496 g3 (SEQ ID NO:7)

AIQLTQSPSSLSASVGDRVTITCRADESVRTLMHWYQQKPGKAPKLLIYLVSNSEIGVPDRF
SGSGSGTDFRLTISSLQPEDFATYYCQQTWSDPWTFGQGTKVEIK

(b) Heavy Chain variable region of antibody CA028_496 g3 (SEQ ID NO:9)

EVQLVESGGGLVQPGGSLRLSCAASGFTFSDYNMAWVRQAPGKGLEWVATITYEGRNTYYRD
SVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYYCASPPQYYEGSIYRLWFAHWGQGTLVTVS
S

(c)

CDRH1: GFTFSDYNMA (SEQ ID NO:1)
CDRH2: TITYEGRNTYYRDSVKG (SEQ ID NO:2)
CDRH3: PPQYYEGSIYRLWFAH (SEQ ID NO:3)
CDRL1: RADESVRTLMH (SEQ ID NO:4)
CDRL2: LVSNSEI (SEQ ID NO:5)
CDRL3: QQTWSDPWT (SEQ ID NO:6)

(d) Light chain of antibody CA028_496g3 (SEQ ID NO:11)

AIQLTQSPSSLSASVGDRVTITCRADESVRTLMHWYQQKPGKAPKLLIYLVSNSEIGVPDRF
SGSGSGTDFRLTISSLQPEDFATYYCQQTWSDPWTFGQGTKVEIKRTVAAPSVFIFPPSDEQ
LKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADY
EKHKVYACEVTHQGLSSPVTKSFNRGEC

(e) Light chain of antibody CA028_496g3 including signal (SEQ ID NO:12)

MSVPTQVLGLLLLWLTDARCAIQLTQSPSSLSASVGDRVTITCRADESVRTLMHWYQQKPGK
APKLLIYLVSNSEIGVPDRFSGSGSGTDFRLTISSLQPEDFATYYCQQTWSDPWTFGQGTKV
EIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQ
DSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

Figure 2

(a) Heavy chain of antibody CA028_496g3 (SEQ ID NO:15)

EVQLVESGGGLVQPGGSLRLSCAASGFTFSDYNMAWVRQAPGKGLEWVATITYEGRNTYYRD
SVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYYCASPPQYYEGSIYRLWFAHWGQGTLVTVS
SASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSG
LYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTCPPCPAPELLGGPSV
FLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRV
VSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVS
LTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCS
VMHEALHNHYTQKSLSLSPGK

(b) Heavy chain of antibody CA028_496g3 including signal (SEQ ID NO:16)

MEWSWVFLFFLSVTTGVHSEVQLVESGGGLVQPGGSLRLSCAASGFTFSDYNMAWVRQAPGK
GLEWVATITYEGRNTYYRDSVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYYCASPPQYYEG
SIYRLWFAHWGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWN
SGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCD
KTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVE
VHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE
PQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLY
SKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

(c) DNA encoding light chain of antibody CA028_496g3 (no signal sequence) (SEQ ID NO:13)

gccatccagctgacccagagcccttcctctctcagcgccagtgtcggagacagagtgactat
tacctgcagggctgacgaaagcgtgagaacattgatgcactggtaccaacagaagcctggca
aagccccaagctcctgatctatctggtttccaattcggagattggagtccccgacaggttc
agcggcagtgggtctggaactgactttcgcctgacaatctcctcactccagcccgaagattt
cgccacctactattgccagcagacttggagcgacccttggacatttggacagggcacaaaag
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agtacagtggaaggtggataacgccctccaatcgggtaactcccaggagagtgtcacagagc
aggacagcaaggacagcacctacagcctcagcagcaccctgacgctgagcaaagcagactac
gagaaacacaaagtctacgcctgcgaagtcacccatcagggcctgagctcgcccgtcacaaa
gagcttcaacaggggagagtgttag

Figure 3

(a) DNA encoding light chain of antibody CA028_496g3 including signal sequence (SEQ ID NO:14)

atgtcagttcccacacaggtgctgggcctgcttctgttgtggctcaccgatgctaggtgtgc
catccagctgacccagagcccttcctctctcagcgccagtgtcggagacagagtgactatta
cctgcagggctgacgaaagcgtgagaacattgatgcactggtaccaacagaagcctggcaaa
gcccccaagctcctgatctatctggtttccaattcggagattggagtccccgacaggttcag
cggcagtgggtctggaactgactttcgcctgacaatctcctcactccagcccgaagatttcg
ccacctactattgccagcagacttggagcgacccttggacatttggacagggcacaaaagtg
gagatcaagcgtacggtagcggccccatctgtcttcatcttcccgccatctgatgagcagtt
gaaatctggaactgcctctgttgtgtgcctgctgaataacttctatcccagagaggccaaag
tacagtggaaggtggataacgccctccaatcgggtaactcccaggagagtgtcacagagcag
gacagcaaggacagcacctacagcctcagcagcaccctgacgctgagcaaagcagactacga
gaaacacaaagtctacgcctgcgaagtcacccatcagggcctgagctcgcccgtcacaaaga
gcttcaacaggggagagtgttag

(b) DNA encoding Light Chain variable region of antibody CA028_496 g3 (SEQ ID NO:8)

gccatccagctgacccagagcccttcctctctcagcgccagtgtcggagacagagtgactat
tacctgcagggctgacgaaagcgtgagaacattgatgcactggtaccaacagaagcctggca
aagcccccaagctcctgatctatctggtttccaattcggagattggagtccccgacaggttc
agcggcagtgggtctggaactgactttcgcctgacaatctcctcactccagcccgaagattt
cgccacctactattgccagcagacttggagcgacccttggacatttggacagggcacaaaag
tggagatcaag

(c) DNA encoding Heavy Chain variable region of antibody CA028_496 g3 (SEQ ID NO:10)

gaggttcagctcgttgaatccggaggcggactcgtgcagcctgggggctccttgcggctgag
ctgcgctgccagtggcttcactttcagcgattacaatatggcctgggtgcgccaggccccag
gcaagggtctggagtgggtggccacaattacctatgagggcagaaacacttattaccgggat
tcagtgaaagggcgatttaccatcagcagggataatgcaaagaacagtctgtacctgcagat
gaactctctgagagctgaggacaccgctgtctactattgtgcaagcccaccccagtactatg
agggctcaatctacagattgtggtttgcccattggggccagggaacactggtgaccgtctcg
agc

Figure 4

DNA (including exons)encoding heavy chain of antibody CA028_496g3 without signal sequence (SEQ ID NO:17)

gaggttcagctcgttgaatccggaggcggactcgtgcagcctgggggctccttgcggctgag
ctgcgctgccagtggcttcactttcagcgattacaatatggcctgggtgcgccaggccccag
gcaagggtctggagtgggtggccacaattacctatgagggcagaaacacttattaccgggat
tcagtgaaagggcgatttaccatcagcagggataatgcaaagaacagtctgtacctgcagat
gaactctctgagagctgaggacaccgctgtctactattgtgcaagcccaccccagtactatg
agggctcaatctacagattgtggtttgcccattggggccagggaacactggtgaccgtctcg
agcgcttctacaaagggcccatcggtcttcccctggcaccctcctccaagagcacctctgg
gggcacagcggccctgggctgcctggtcaaggactacttccccgaaccggtgacggtgtcgt
ggaactcaggcgccctgaccagcggcgtgcacaccttcccggctgtcctacagtcctcagga
ctctactccctcagcagcgtggtgaccgtgccctccagcagcttgggcacccagacctacat
ctgcaacgtgaatcacaagcccagcaacaccaaggtcgacaagaaagttgagcccaaatctt
gtgacaaaactcacacatgcccaccgtgcccagcacctgaactcctgggggggaccgtcagtc
ttcctcttcccccaaaacccaaggacaccctcatgatctcccggaccccctgaggtcacatg
cgtggtggtggacgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcg
tggaggtgcataatgccaagacaaagccgcgggaggagcagtacaacagcacgtaccgtgtg
gtcagcgtcctcaccgtcctgcaccaggactggctgaatggcaaggagtacaagtgcaaggt
ctccaacaaagccctcccagcccccatcgagaaaaccatctccaaagccaaagcgcagcccc
gagaaccacaggtgtacaccctgcccccatcccgggatgagctgaccaagaaccaggtcagc
ctgacctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtgggagagcaatgg
gcagccggagaacaactacaagaccacgcctcccgtgctggactccgacggctccttcttcc
tctacagcaagctcaccgtggacaagagcaggtggcagcaggggaacgtcttctcatgctcc
gtgatgcatgaggctctgcacaaccactacacgcagaagagcctctccctgtctccgggtaa
a

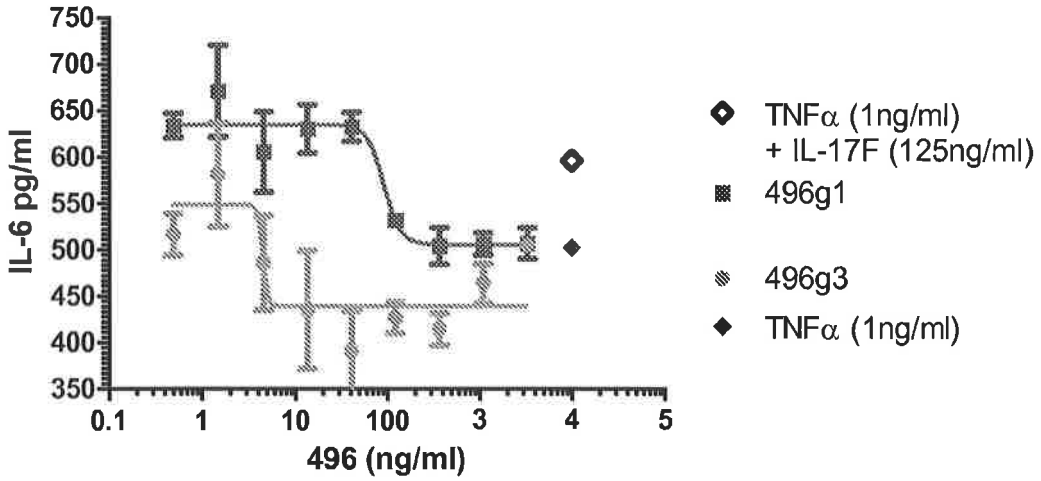
Figure 5: DNA encoding heavy chain of antibody CA028_496g3 including signal sequence and exons (SEQ ID NO:18)

atggaatggtcctgggtcttcctgtttttcctttctgtcacaaccggggtgcacagcgaggt
tcagctcgttgaatccggaggcggactcgtgcagcctgggggctccttgcggctgagctgcg
ctgccagtggcttcactttcagcgattacaatatggcctgggtgcgccaggccccaggcaag
ggtctggagtgggtggccacaattacctatgagggcagaaacacttattaccgggattcagt
gaaagggcgatttaccatcagcagggataatgcaaagaacagtctgtacctgcagatgaact
ctctgagagctgaggacaccgctgtctactattgtgcaagcccaccccagtactatgagggc
tcaatctacagattgtggtttgcccattggggccagggaacactggtgaccgtctcgagcgc
ttctacaaagggcccatcggtcttccccctggcaccctcctccaagagcacctctgggggca
cagcggccctgggctgcctggtcaaggactacttccccgaaccggtgacggtgtcgtggaac
tcaggcgccctgaccagcggcgtgcacaccttcccggctgtcctacagtcctcaggactcta
ctccctcagcagcgtggtgaccgtgccctccagcagcttgggcacccagacctacatctgca
acgtgaatcacaagcccagcaacaccaaggtcgacaagaaagttgagcccaaatcttgtgac
aaaactcacacatgcccaccgtgcccagcacctgaactcctgggggggaccgtcagtcttcct
cttccccccaaaacccaaggacaccctcatgatctcccggacccctgaggtcacatgcgtgg
tggtggacgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcgtggag
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cgtcctcaccgtcctgcaccaggactggctgaatggcaaggagtacaagtgcaaggtctcca
acaaagccctcccagccccatcgagaaaaccatctccaaagccaaagcgcagccccgagaa
ccacaggtgtacaccctgcccccatcccgggatgagctgaccaagaaccaggtcagcctgac
ctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtgggagagcaatgggcagc
cggagaacaactacaagaccacgcctcccgtgctggactccgacggctccttcttcctctac
agcaagctcaccgtggacaagagcaggtggcagcaggggaacgtcttctcatgctccgtgat
gcatgaggctctgcacaaccactacacgcagaagagcctctccctgtctccgggtaaa

Figure 6 cDNA encoding heavy chain of antibody CA028_496g3 including signal sequence (SEQ ID NO:19)

atggaatggtcctgggtcttcctgtttttcctttctgtcacaaccggggtgcacagcgaggt
tcagctcgttgaatccggaggcggactcgtgcagcctgggggctccttgcggctgagctgcg
ctgccagtggcttcactttcagcgattacaatatggcctgggtgcgccaggccccaggcaag
ggtctggagtgggtggccacaattacctatgagggcagaaacacttattaccgggattcagt
gaaagggcgatttaccatcagcagggataatgcaaagaacagtctgtacctgcagatgaact
ctctgagagctgaggacaccgctgtctactattgtgcaagcccaccccagtactatgagggc
tcaatctacagattgtggtttgcccattggggccagggaacactggtgaccgtctcgagcgc
ttctacaaagggcccatcggtcttccccctggcaccctcctccaagagcacctctgggggca
cagcggccctgggctgcctggtcaaggactacttccccgaaccggtgacggtgtcgtggaac
tcaggcgccctgaccagcggcgtgcacaccttcccggctgtcctacagtcctcaggactcta
ctccctcagcagcgtggtgaccgtgccctccagcagcttgggcacccagacctacatctgca
acgtgaatcacaagcccagcaacaccaaggtcgacaagaaagttgagcccaaatcttgtgac
aaaactcacacatgcccaccgtgcccagcacctgaactcctgggggggaccgtcagtcttcct
cttccccccaaaacccaaggacaccctcatgatctcccggaccccctgaggtcacatgcgtgg
tggtggacgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcgtggag
gtgcataatgccaagacaaagccgcgggaggagcagtacaacagcacgtaccgtgtggtcag
cgtcctcaccgtcctgcaccaggactggctgaatggcaaggagtacaagtgcaaggtctcca
acaaagccctcccagccccatcgagaaaaccatctccaaagccaaagcgcagccccgagaa
ccacaggtgtacaccctgcccccatcccgggatgagctgaccaagaaccaggtcagcctgac
ctgcctggtcaaaggcttctatcccagcgacatcgccgtggagtgggagagcaatgggcagc
cggagaacaactacaagaccacgcctcccgtgctggactccgacggctccttcttcctctac
agcaagctcaccgtggacaagagcaggtggcagcaggggaacgtcttctcatgctccgtgat
gcatgaggctctgcacaaccactacacgcagaagagcctctccctgtctccgggtaaa

Figure 7


750
700
650
600
550
500
450
400
350
IL-6 pg/ml
0.1
1
10
100
3
4
5
496 (ng/ml)
TNFα (1ng/ml)
+ IL-17F (125ng/ml)
496g1
496g3
TNFα (1ng/ml)