

9869SG3534-seq1-000001
SEQUENCE LISTING

<110> Agency for Science Technology and Research
<120> MONOCLONAL ANTIBODY AGAINST MURAMYL PEPTIDES IN PREVENTION AND
TREATMENT OF IMMUNE-MEDIATED DISEASES
<130> 9869SG3533
<160> 10
<170> PatentIn version 3.5
<210> 1
<211> 624
<212> DNA
<213> Artificial Sequence
<220>
<223> Nucleotide sequence encoding for heavy chain of the variable region of
2E7

<400> 1
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atagtctcgg gatttacttt cagttattat tggatgtctt ggggccgcca gtctccagag 120
aaggggtttg agtgggttgc tgaaatcaga ttgaaatctg agaattatgc aacaaattat 180
acggagtctg tgaaagggaa gttcaccatc tcaagagatg attccaaaag tcgtctctac 240
ctgcaaatga acagcttagg agctgaggac actggaattt attactgtct aactggttat 300
gcctggtttg cttattgggg ccaagggact ctagtactg tctctgcagc caaaacgaca 360
cccccatctg tctatccact ggcccctgga tctgctgccc aaactaactc catggtgacc 420
ctgggatgcc tgggtcaagg ctatttccct gagccagtga cagtgcctg gaactctgga 480
tccctgtcca gcggtgtgca caccttccca gctgtcctgc agtctgacct ctacactctg 540
agcagctcag tgactgtccc ctccagcacc tggcccagcg agaccgtcac ctgcaacgtt 600
gccacccgg ccagcagcac caag 624

<210> 2
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<223> Nucleotide sequence encoding for light chain of the variable region of
2E7

<400> 2
gacgtccaga tgatccagtc tccaaagcgc ctaatctatc tgggtgtctaa actggactct 60
ggagtccctg acaggttcac tggcagtgga tcaggaacag attttacact gaaaatcagc 120
agagtggagg ctgaggattt gggagtttat tactgctgac aacatacaca ttttcccacg 180
ttcggagggg ggaccaagct ggaaataaaa cgggctgatg ctgcaccaac tgtatccatc 240
ttcccaccat ccagttagca gttaacatct ggaggtgcct cagtcgtgtg cttcttgaac 300
aacttctacc ccaaagacat caatgtcaag tggaagattg atggcagtga acgacaaaat 360

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ggcgtcctga acagttggac tgatcaggac agcaaagaca gcacctacag catgagcagc 420
accctcacgt tgaccaagga cgagtatgaa cgacataaca gctatacctg tgaggccact 480
cacaagacat caacttcacc cattgtcaag agcttcaaca ggaatgagtg t 531

<210> 3
<211> 208
<212> PRT
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<220>
<223> Heavy chain of the variable region of 2E7

<400> 3

Met Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Met
1 5 10 15

Lys Leu Ser Cys Ile Val Ser Gly Phe Thr Phe Ser Tyr Tyr Trp Met
20 25 30

Ser Trp Val Arg Gln Ser Pro Glu Lys Gly Phe Glu Trp Val Ala Glu
35 40 45

Ile Arg Leu Lys Ser Glu Asn Tyr Ala Thr Asn Tyr Thr Glu Ser Val
50 55 60

Lys Gly Lys Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Arg Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Gly Ala Glu Asp Thr Gly Ile Tyr Tyr Cys
85 90 95

Leu Thr Gly Tyr Ala Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Ser Ala Ala Lys Thr Thr Pro Pro Ser Val Tyr Pro Leu Ala
115 120 125

Pro Gly Ser Ala Ala Gln Thr Asn Ser Met Val Thr Leu Gly Cys Leu
130 135 140

Val Lys Gly Tyr Phe Pro Glu Pro Val Thr Val Thr Trp Asn Ser Gly
145 150 155 160

Ser Leu Ser Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Asp
165 170 175

Leu Tyr Thr Leu Ser Ser Ser Val Thr Val Pro Ser Ser Thr Trp Pro
180 185 190

Ser Glu Thr Val Thr Cys Asn Val Ala His Pro Ala Ser Ser Thr Lys
195 200 205

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<210> 4
 <211> 177
 <212> PRT
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<220>
 <223> Light chain of the variable region of 2E7

<400> 4

Asp Val Gln Met Ile Gln Ser Pro Lys Arg Leu Ile Tyr Leu Val Ser
 1 5 10 15

Lys Leu Asp Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly
 20 25 30

Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly
 35 40 45

Val Tyr Tyr Cys Val Gln His Thr His Phe Pro Thr Phe Gly Gly Gly
 50 55 60

Thr Lys Leu Glu Ile Lys Arg Ala Asp Ala Ala Pro Thr Val Ser Ile
 65 70 75 80

Phe Pro Pro Ser Ser Glu Gln Leu Thr Ser Gly Gly Ala Ser Val Val
 85 90 95

Cys Phe Leu Asn Asn Phe Tyr Pro Lys Asp Ile Asn Val Lys Trp Lys
 100 105 110

Ile Asp Gly Ser Glu Arg Gln Asn Gly Val Leu Asn Ser Trp Thr Asp
 115 120 125

Gln Asp Ser Lys Asp Ser Thr Tyr Ser Met Ser Ser Thr Leu Thr Leu
 130 135 140

Thr Lys Asp Glu Tyr Glu Arg His Asn Ser Tyr Thr Cys Glu Ala Thr
 145 150 155 160

His Lys Thr Ser Thr Ser Pro Ile Val Lys Ser Phe Asn Arg Asn Glu
 165 170 175

Cys

<210> 5
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer for nucleotide sequence encoding for heavy chain of the variable region of 2E7

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<400> 5
atgctggtgg agtctggggg a 21

<210> 6
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer for nucleotide sequence encoding for heavy chain of the variable region of 2E7

<400> 6
aagctggtgg aatctggagg a 21

<210> 7
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer for nucleotide sequence encoding for heavy chain of the variable region of 2E7

<400> 7
cttggtgctg ctggccgggt g 21

<210> 8
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer for nucleotide sequence encoding for light chain of the variable region of 2E7

<400> 8
ccgtttgatt tccagcttgg tgcc 24

<210> 9
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer for nucleotide sequence encoding for light chain of the variable region of 2E7

<400> 9
ccgtttcagc tccagcttgg tccc 24

<210> 10
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<212> DNA
<213> Artificial Sequence

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<223> Reverse primer for nucleotide sequence encoding for a light chain of the variable region of 2E7

<400> 10
gacattgagc tcaccagtc tcca 24

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