

IEC170039PCT-seq1 翻译
SEQUENCE LISTING

<110> AKESO BIOPHARMA, INC
<120> PD1 Antibody and Pharmaceutical Composition and Use Thereof
<130> IEC170039PCT
<160> 14
<170> PatentIn version 3.2
<210> 1
<211> 354
<212> DNA
<213> Artificial

<220>
<223> Nucleotide sequence of monoclonal antibody 14C12 heavy chain variable region

```
<400> 1
gaggtcaaac tggtggagag cggcggcggg ctggtgaagc ccggcggggtc actgaaactg      60
agctgcgccg cttccggctt cgccttttagc tcctacgaca tgtcatgggt gaggcagacc      120
cctgagaagc gcctggaatg ggtcgctact atcagcggag gcggggcgata cacctactat      180
cctgactctg tcaaagggag attcacaatt agtcgggata acgccagaaa tactctgtat      240
ctgcagatgt ctagtctgcg gtccgaggat acagctctgt actattgtgc aaaccggtac      300
ggcgaagcat ggtttgcta ttggggacag ggcaccctgg tgacagtctc tgcc              354
```

<210> 2
<211> 118
<212> PRT
<213> Artificial

<220>
<223> The amino acid sequence of monoclonal antibody 14C12 heavy chain variable region

```
<400> 2
Glu Val Lys Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1          5          10          15

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Ala Phe Ser Ser Tyr
20          25          30

Asp Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
35          40          45

Ala Thr Ile Ser Gly Gly Gly Arg Tyr Thr Tyr Tyr Pro Asp Ser Val
50          55          60

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

Leu Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys
85          90          95
```

IEC170039PCT-seq1 翻译

Ala Asn Arg Tyr Gly Glu Ala Trp Phe Ala Tyr Trp Gly Gln Gly Thr
 100 105 110

Leu Val Thr Val Ser Ala
 115

<210> 3
 <211> 318
 <212> DNA
 <213> Artificial

<220>

<223> Nucleotide sequence of monoclonal antibody 14C12 light chain variable region

<400> 3
 gacattaaga tgacacagtc cccttcctca atgtacgcta gcctgggcga gcgagtgacc 60
 ttcacatgca aagcatccca ggacatcaac acatacctgt cttggtttca gcagaagcca 120
 ggcaaaagcc ccaagaccct gatctaccgg gccaatagac tgggtggacgg ggtccccagc 180
 agattctccg gatctggcag tgggcaggat tactccctga ccatcagctc cctggagtat 240
 gaagacatgg gcatctacta ttgcctgcag tatgatgagt tccctctgac ctttggagca 300
 ggcacaaaac tggaactg 318

<210> 4
 <211> 106
 <212> PRT
 <213> Artificial

<220>

<223> The amino acid sequence of monoclonal antibody 14C12 light chain variable region

<400> 4

Asp Ile Lys Met Thr Gln Ser Pro Ser Ser Met Tyr Ala Ser Leu Gly
 1 5 10 15

Glu Arg Val Thr Phe Thr Cys Lys Ala Ser Gln Asp Ile Asn Thr Tyr
 20 25 30

Leu Ser Trp Phe Gln Gln Lys Pro Gly Lys Ser Pro Lys Thr Leu Ile
 35 40 45

Tyr Arg Ala Asn Arg Leu Val Asp Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Gln Asp Tyr Ser Leu Thr Ile Ser Ser Leu Glu Tyr
 65 70 75 80

Glu Asp Met Gly Ile Tyr Tyr Cys Leu Gln Tyr Asp Glu Phe Pro Leu
 85 90 95

IEC170039PCT-seq1 翻译

Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu
100 105

<210> 5
<211> 354
<212> DNA
<213> Artificial

<220>
<223> Nucleotide sequence of monoclonal antibody 14C12H1L1 heavy chain variable region

<400> 5
gaagtgcagc tggtcgagtc tgggggaggg ctggtgcagc ccggcgggtc actgcgactg 60
agctgcgcag cttccggatt cgccttttagc tcctacgaca tgtcctgggt gcgacaggca 120
ccaggaaagg gactggattg ggtcgctact atctcaggag gcgggagata cacctactat 180
cctgacagcg tcaagggccg gttcacaatc tctagagata acagtaagaa caatctgtat 240
ctgcagatga acagcctgag ggctgaggac accgcactgt actattgtgc caaccgctac 300
ggggaagcat ggtttgccta ttggggggcag ggaaccctgg tgacagtctc tagt 354

<210> 6
<211> 118
<212> PRT
<213> Artificial

<220>
<223> The amino acid sequence of monoclonal antibody 14C12H1L1 heavy chain variable region

<400> 6
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ala Phe Ser Ser Tyr
20 25 30
Asp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Asp Trp Val
35 40 45
Ala Thr Ile Ser Gly Gly Gly Arg Tyr Thr Tyr Tyr Pro Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Asn Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Leu Tyr Tyr Cys
85 90 95
Ala Asn Arg Tyr Gly Glu Ala Trp Phe Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 7
<211> 321
<212> DNA
<213> Artificial

<220>
<223> Nucleotide sequence of monoclonal antibody 14C12H1L1 light chain variable region

<400> 7
gacattcaga tgactcagag cccctcctcc atgtccgcct ctgtgggcga cagggtcacc 60
ttcacatgcc gcgctagtca ggatatcaac acctacctga gctggtttca gcagaagcca 120
gggaaaagcc ccaagacact gatctaccgg gctaataagac tgggtgtctgg agtcccaagt 180
cggttcagtg gctcagggag cggacaggac tacactctga ccatcagctc cctgcagcct 240
gaggacatgg caacctacta ttgcctgcag tatgatgagt tcccactgac ctttggcgcc 300
gggacaaaac tggagctgaa g 321

<210> 8
<211> 107
<212> PRT
<213> Artificial

<220>
<223> The amino acid sequence of monoclonal antibody 14C12H1L1 light chain variable region

<400> 8
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Met Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Phe Thr Cys Arg Ala Ser Gln Asp Ile Asn Thr Tyr
20 25 30
Leu Ser Trp Phe Gln Gln Lys Pro Gly Lys Ser Pro Lys Thr Leu Ile
35 40 45
Tyr Arg Ala Asn Arg Leu Val Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60
Ser Gly Ser Gly Gln Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80
Glu Asp Met Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp Glu Phe Pro Leu
85 90 95
Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
100 105

<210> 9
<211> 8

<212> PRT
<213> Artificial

<220>
<223> HCDR

<400> 9

Gly Phe Ala Phe Ser Ser Tyr Asp
1 5

<210> 10
<211> 8
<212> PRT
<213> Artificial

<220>
<223> HCDR

<400> 10

Ile Ser Gly Gly Gly Arg Tyr Thr
1 5

<210> 11
<211> 11
<212> PRT
<213> Artificial

<220>
<223> HCDR

<400> 11

Ala Asn Arg Tyr Gly Glu Ala Trp Phe Ala Tyr
1 5 10

<210> 12
<211> 6
<212> PRT
<213> LCDR

<400> 12

Gln Asp Ile Asn Thr Tyr
1 5

<210> 13
<211> 3
<212> PRT
<213> Artificial

<220>
<223> LCDR

<400> 13

Arg Ala Asn
1

<210> 14
<211> 9
<212> PRT

<213> Artificial

<220>

<223> LCDR

<400> 14

Leu Gln Tyr Asp Glu Phe Pro Leu Thr
1 5