

SEQUENCE LISTING

<110> AD Pharmaceuticals Co., Ltd.

<120> ANTI-PCSK9 ANTIBODY AND USE THEREOF

<130> IP190579

<160> 12

<170> PatentIn version 3.3

<210> 1

<211> 369

<212> DNA

<213> Artificial sequences

<400> 1

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cctggcaagg ggctggagtg ggtctccgga atctctagtt caagctccta cattagctat      180
gcagactccg tccagggaag gttcaccatc tctcgcgata acggcaagaa cagcctgtat      240
ctgcagatga acagcctgcg agcagaggac acagccctgt acttctgtgc cagagaatat      300
gacttctggc cgcctatta cgacgccttc gatgtctggg gacaggggac tatggtcact      360
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<210> 2

<211> 123

<212> PRT

<213> Artificial sequences

<400> 2

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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1           5           10           15
```

```
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20           25           30
```

```
Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35           40           45
```

Ser Gly Ile Ser Ser Ser Ser Ser Tyr Ile Ser Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Arg Glu Tyr Asp Phe Trp Ser Ala Tyr Tyr Asp Ala Phe Asp Val
100 105 110

Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser
115 120

<210> 3
<211> 333
<212> DNA
<213> Artificial sequences

<400> 3
cagagcgaac tgactcagcc aagaagcgtc agtggatcac ctggccagag cgtgacaatc 60
tcctgcaccg gcacaagcag gaacattggc gggggaaatg acgtccactg gtaccagcag 120
catccaggga aggcccccaa actgctgatc tccggagtga ttgagcggag ctccggcgtc 180
cccgatagat tcagcggggtc caagtctgga aacacagctt ctctgactat cagtggcctg 240
caggcagagg acgaagccga ttactattgc cagtctttcg acggcagtct gtcagggagc 300
gtgtttggca ctgggaccga tgtgaccgtc ctg 333

<210> 4
<211> 111
<212> PRT
<213> Artificial sequences

<400> 4

Gln Ser Glu Leu Thr Gln Pro Arg Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

Ser Val Thr Ile Ser Cys Thr Gly Thr Ser Arg Asn Ile Gly Gly Gly
20 25 30

Asn Asp Val His Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu
35 40 45

Leu Ile Ser Gly Val Ile Glu Arg Ser Ser Gly Val Pro Asp Arg Phe
50 55 60

Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Phe Asp Gly Ser
85 90 95

Leu Ser Gly Ser Val Phe Gly Thr Gly Thr Asp Val Thr Val Leu
100 105 110

<210> 5
<211> 8
<212> PRT
<213> Artificial sequences

<400> 5

Gly Phe Thr Phe Ser Ser Tyr Ser
1 5

<210> 6
<211> 8
<212> PRT
<213> Artificial sequences

<400> 6

Ile Ser Ser Ser Ser Ser Tyr Ile
1 5

<210> 7
<211> 14

<212> PRT
<213> Artificial sequences

<400> 7

Glu Tyr Asp Phe Trp Ser Ala Tyr Tyr Asp Ala Phe Asp Val
1 5 10

<210> 8
<211> 9
<212> PRT
<213> Artificial sequences

<400> 8

Ser Arg Asn Ile Gly Gly Gly Asn Asp
1 5

<210> 9
<211> 3
<212> PRT
<213> Artificial sequences

<400> 9

Gly Val Ile
1

<210> 10
<211> 11
<212> PRT
<213> Artificial sequences

<400> 10

Gln Ser Phe Asp Gly Ser Leu Ser Gly Ser Val
1 5 10

<210> 11
<211> 443
<212> PRT
<213> Artificial sequences

<400> 11

Glu Val Gln Leu Glu Gln Ser Gly Ala Glu Leu Met Lys Pro Gly Ala

1	5	10	15
Ser Val Lys Ile Ser Cys Lys Ala Thr Gly Tyr Thr Phe Thr Thr Tyr	20	25	30
Trp Ile Glu Trp Ile Lys Gln Arg Pro Gly His Ser Leu Glu Trp Ile	35	40	45
Gly Glu Ile Leu Pro Gly Ser Asp Ser Thr Tyr Tyr Asn Glu Lys Val	50	55	60
Lys Gly Lys Val Thr Phe Thr Ala Asp Ala Ser Ser Asn Thr Ala Tyr	65	70	75
Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys	85	90	95
Ala Arg Gly Asp Gly Phe Tyr Val Tyr Trp Gly Gln Gly Thr Thr Leu	100	105	110
Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala	115	120	125
Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu	130	135	140
Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly	145	150	155
Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser	165	170	175
Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu	180	185	190
Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr	195	200	205

Lys Val Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro
210 215 220

Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
225 230 235 240

Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
245 250 255

Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn
260 265 270

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
275 280 285

Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
290 295 300

Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
305 310 315 320

Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys
325 330 335

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu
340 345 350

Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
355 360 365

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
370 375 380

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
385 390 395 400

Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly

405

410

415

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
 420 425 430

Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
 435 440

<210> 12

<211> 214

<212> PRT

<213> Artificial sequences

<400> 12

Asp Ile Glu Leu Thr Gln Ser Pro Ala Thr Leu Ser Val Thr Pro Gly
 1 5 10 15

Asp Ser Val Ser Leu Ser Cys Arg Ala Ser Gln Ser Ile Ser Asn Asn
 20 25 30

Leu His Trp Tyr Gln Gln Lys Ser His Glu Ser Pro Arg Leu Leu Ile
 35 40 45

Lys Tyr Thr Ser Gln Ser Met Ser Gly Ile Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Ser Val Glu Thr
 65 70 75 80

Glu Asp Phe Gly Val Tyr Phe Cys Gln Gln Ser Gly Ser Trp Pro Arg
 85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Asp Ile Lys Arg Thr Val Ala Ala
 100 105 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
130 135 140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145 150 155 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
165 170 175

Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
180 185 190

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
195 200 205

Phe Asn Arg Gly Glu Cys
210