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SEQUENCE LISTING

<110> Bayer Healthcare

<120> Anti-Mesothelin Antibodies and Uses Thereof

<130> BHC 09 1 008

<160> 36

<170> PatentIn version 3.5

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Ser Phe Gln Gly
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- 2 -

<213> Homo sapiens

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Lys	Phe	Gln	Gly
			20

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Ser	Phe	Gln	Gly
			20

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Tyr	Gly	His	Gly	Met	Tyr	Gly	Gly	Ala	Leu	Asp	Val
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Gly	Gln	Leu	Tyr	Gly	Gly	Thr	Tyr	Met	Asp	Gly
1				5					10	

<210> 10

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Arg Ala Ser Gln Ser Val Arg Ser Ser Arg Leu Ala
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Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Tyr Val Ser
1 5 10

<210> 12
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Thr Gly Thr Ser Ser Asp Ile Gly Gly Tyr Asn Ser Val Ser
1 5 10

<210> 13
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Leu Leu Ile Tyr Gly Ala Ser Lys Arg Ala Thr
1 5 10

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Leu Leu Ile Tyr Asn Asp Asn Gln Arg Pro Ser
1 5 10

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<400> 15

Leu Met Ile Tyr Gly Val Asn Asn Arg Pro Ser
1 5 10

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

Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45

- 5 -

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

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
85 90 95

Ala Arg Tyr Gly His Gly Met Tyr Gly Gly Ala Leu Asp Val Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

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Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
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Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Asn Tyr
20 25 30

Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
35 40 45

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

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
85 90 95

Ala Arg Tyr Gly His Gly Met Tyr Gly Gly Ala Leu Asp Val Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

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<213> Homo sapiens

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Gln Val Glu Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly Asn
20 25 30

Tyr Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Ile Ile Asn Pro His Gly Gly Asp Thr Lys Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr
65 70 75 80

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

Ala Arg Trp His His Gly Thr Trp Ile Phe Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
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<213> Homo sapiens

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Gln Val Glu Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
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Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
20 25 30

Trp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met
35 40 45

Gly Ile Ile Asp Pro Gly Asp Ser Arg Thr Arg Tyr Ser Pro Ser Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
85 90 95

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Ala Arg Gly Gln Leu Tyr Gly Gly Thr Tyr Met Asp Gly Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

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<213> Homo sapiens

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Asp Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
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Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Arg Ser Ser
20 25 30

Arg Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

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

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

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Tyr Asp Phe Pro
85 90 95

Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr
100 105 110

<210> 25
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<400> 25

Asp Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
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Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Arg Ser Ser
20 25 30

Arg Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

Ile Tyr Gly Ala Ser Lys Arg Ala Thr Gly Val Pro Ala Arg Phe Ser

- 8 -

50				55				60							
Gly 65	Ser	Gly	Ser	Gly	Thr 70	Asp	Phe	Thr	Leu	Thr 75	Ile	Ser	Ser	Leu	Glu 80
Pro	Glu	Asp	Phe	Ala 85	Val	Tyr	Tyr	Cys	Gln 90	Gln	Tyr	Ser	His	Asp 95	Pro
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Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn
20 25 30

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Asn Asp Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

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

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Thr Tyr Asp Arg Arg Thr
85 90 95

Phe Ser Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105 110

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<400> 27

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1 5 10 15

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Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Ile Gly Gly Tyr
20 25 30

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

Met Ile Tyr Gly Val Asn Asn Arg Pro Ser Gly Val Ser Asn 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 Ser Ser Tyr Asp Ile Glu
85 90 95

Ser Ala Thr Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

Gln Asp Ile Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly
115 120 125

Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser
130 135 140

Asn Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu
145 150 155 160

Leu Ile Tyr Asn Asp Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe
165 170 175

Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu
180 185 190

Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Thr Tyr Asp Arg Arg
195 200 205

Thr Phe Ser Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
210 215 220

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<212> DNA

<213> Homo sapiens

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agctgcaaag gttccgata ttcctttact aattattgga ttggttggtt ggcgcagatg 120

cctgggaagg gtctcgagt gatgggcgtt atcatgccgt ctgatagcta taccggttat 180

- 10 -

tctccgagct ttcagggcca ggtgaccatt agcgcgagata aaagcattag caccgcgtat 240
 cttcaatgga gcagcctgaa agcgagcgat acggccatgt attattgcgc gcgttatggg 300
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 cctgggaagg gtctcgagt gatgggcgtt atcatgccgt ctgatatgta taccggttat 180
 tctccgagct ttcagggcca ggtgaccatt agcgcgagata aaagcattag caccgcgtat 240
 cttcaatgga gcagcctgaa agcgagcgat acggccatgt attattgcgc gcgttatggg 300
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 cctgggcagg gtctcgagt gatgggcatt atcaatccgc atggtggcga tacgaagtac 180
 gcgcagaagt ttcagggccg ggtgaccatg acccgtgata ccagcattag caccgcgtat 240
 atggaactga gcagcctgcg tagcgaagat acggccgtgt attattgcgc gcgttggcat 300
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 cctgggaagg gtctcgagt gatgggcatt atcgatccgg gtgatagccg taccggttat 180
 tctccgagct ttcagggcca ggtgaccatt agcgcgagata aaagcattag caccgcgtat 240

- 11 -

cttcaatgga gcagcctgaa agcgagcgat acggccatgt attattgcgc gcgtggtcag 300

ctttatgggtg gtacttatat ggatgggttg ggccaaggca ccctgggtgac ggttagctca 360

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<211> 330

<212> DNA

<213> Homo sapiens

<400> 32

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ccaggtcaag caccgcgtct attaatttat ggtgcttcta agcgtgcaac tgggggtcccg 180

gcgcgtttta gcggctctgg atccggcacg gattttaccc tgaccattag cagcctggaa 240

cctgaagact ttgcgactta ttattgccag cagtattatg attttctctc tacctttggc 300

cagggtagca aagttgaaat taaacgtacg 330

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<211> 333

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<400> 33

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ccaggtcaag caccgcgtct attaatttat ggtgcttcta agcgtgcaac tgggggtcccg 180

gcgcgtttta gcggctctgg atccggcacg gattttaccc tgaccattag cagcctggaa 240

cctgaagact ttgcgggtgta ttattgccag cagtattctc atgaccttc tggtagcttt 300

ggccagggta cgaaagttga aattaaacgt acg 333

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<211> 333

<212> DNA

<213> Homo sapiens

<400> 34

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cccgggacgg cgccgaaact tctgatttat aatgataatc agcgtccctc aggcgtgccg 180

gacgttttta gcggatccaa aagcggcacc agcgcgagcc ttgcgattac gggcctgcaa 240

agcgaagacg aagcggatta ttattgctct acttatgacg gtcgtacttt ttctgtgttt 300

ggcggcggca cgaagttaac cgtcctaggt cag 333

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 catcccggaaggaggccgaa acttatgatt tattctgttt ctaagcgctc ctcaggcgtg 180
 agcaaccgtt ttagcggatc caaaagcggc aacaccgcga gcctgaccat tagcggcctg 240
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Asp Glu Ser Leu Ile Phe Tyr Lys Lys Trp Glu Leu Glu Ala Cys Val
 20 25 30

Asp Ala Ala Leu Leu Ala Thr Gln Met Asp Arg Val Asn Ala Ile Pro
 35 40 45

Phe Thr Tyr Glu Gln Leu Asp Val Leu Lys His Lys Leu Asp Glu Leu
 50 55 60

Tyr Pro Gln Gly Tyr Pro Glu Ser Val Ile Gln His Leu Gly Tyr Leu
 65 70 75 80

Phe Leu Lys Met Ser Pro Glu Asp Ile Arg Lys Trp Asn Val Thr Ser
 85 90 95

Leu Glu Thr Leu Lys Ala Leu Leu Glu Val Asn Lys Gly His Glu Met
 100 105 110

Ser Pro Gln Val Ala Thr Leu Ile Asp Arg Phe Val Lys Gly Arg Gly
 115 120 125

Gln Leu Asp Lys Asp Thr Leu Asp Thr Leu Thr Ala Phe Tyr Pro Gly
 130 135 140

- 13 -

Tyr Leu Cys Ser Leu Ser Pro Glu Glu Leu Ser Ser Val Pro Pro Ser
145 150 155 160

Ser Ile Trp Ala Val Arg Pro Gln Asp Leu Asp Thr Cys Asp Pro Arg
165 170 175

Gln Leu Asp Val Leu Tyr Pro Lys Ala Arg Leu Ala Phe Gln Asn Met
180 185 190

Asn Gly Ser Glu Tyr Phe Val Lys Ile Gln Ser Phe Leu Gly Gly Ala
195 200 205

Pro Thr Glu Asp Leu Lys Ala Leu Ser Gln Gln Asn Val Ser Met Asp
210 215 220

Leu Ala Thr Phe Met Lys Leu Arg Thr Asp Ala Val Leu Pro Leu Thr
225 230 235 240

Val Ala Glu Val Gln Lys Leu Leu Gly Pro His Val Glu Gly Leu Lys
245 250 255

Ala Glu Glu Arg His Arg Pro Val Arg Asp Trp Ile Leu Arg Gln Arg
260 265 270

Gln Asp Asp Leu Asp Thr Leu Gly Leu Gly Leu Gln Gly Gly Ile Pro
275 280 285

Asn Gly Tyr Leu Val Leu Asp Leu Ser Met Gln Glu Ala Leu Ser Gly
290 295 300

Thr Pro Cys Leu Leu Gly Pro Gly Pro Val Leu Thr Val Leu Ala Leu
305 310 315 320

Leu Leu Ala Ser Thr Leu Ala
325