Fig. 1

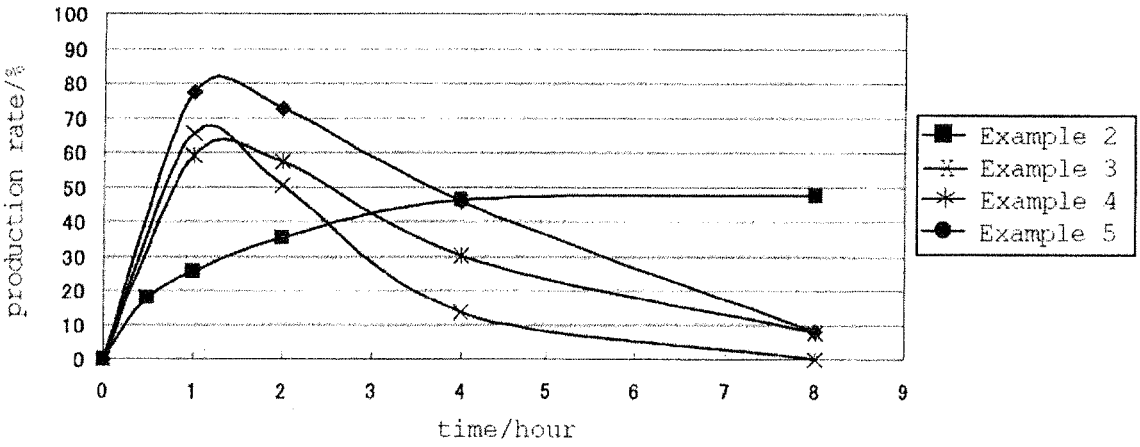

production rate/%
100
90
80
70
60
50
40
30
20
10
0
0
1
2
3
4
5
6
7
8
9
time/hour
Example 2
Example 3
Example 4
Example 5

Fig. 2

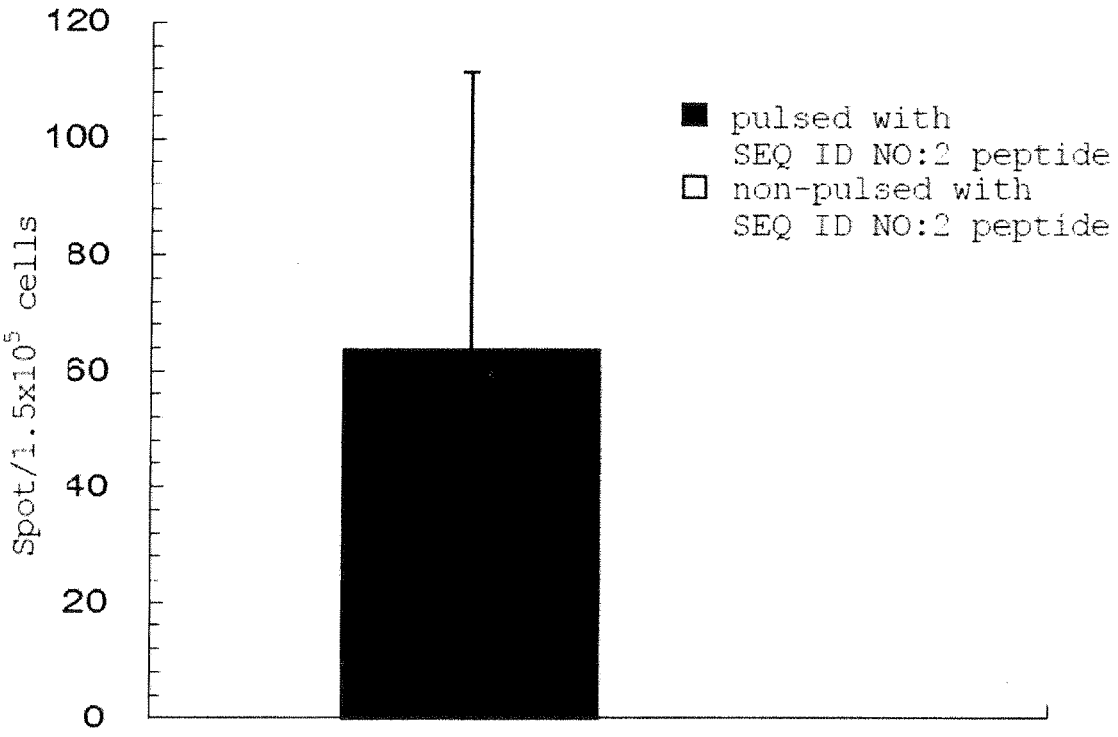

120
100
80
60
40
20
0
Spot/1.5x10^5 cells
pulsed with SEQ ID NO:2 peptide
non-pulsed with SEQ ID NO:2 peptide

Fig. 3

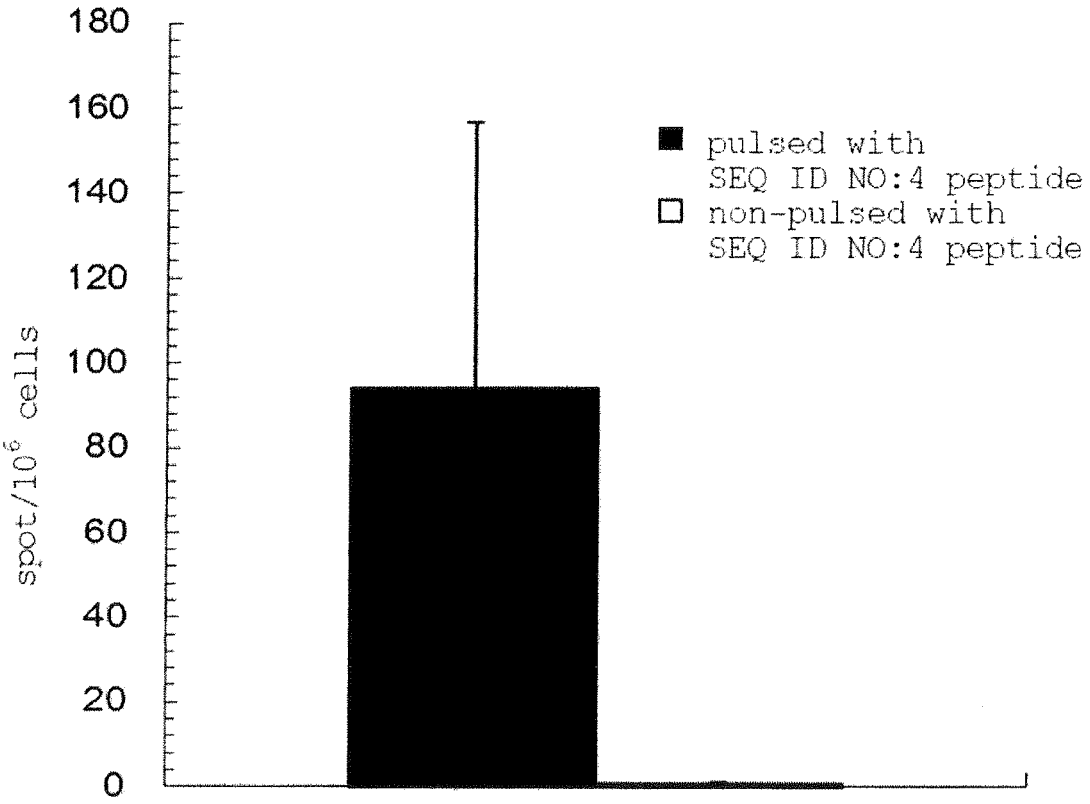

180
160
140
120
100
80
60
40
20
0
spot/10^6 cells
pulsed with SEQ ID NO:4 peptide
non-pulsed with SEQ ID NO:4 peptide

Fig. 4

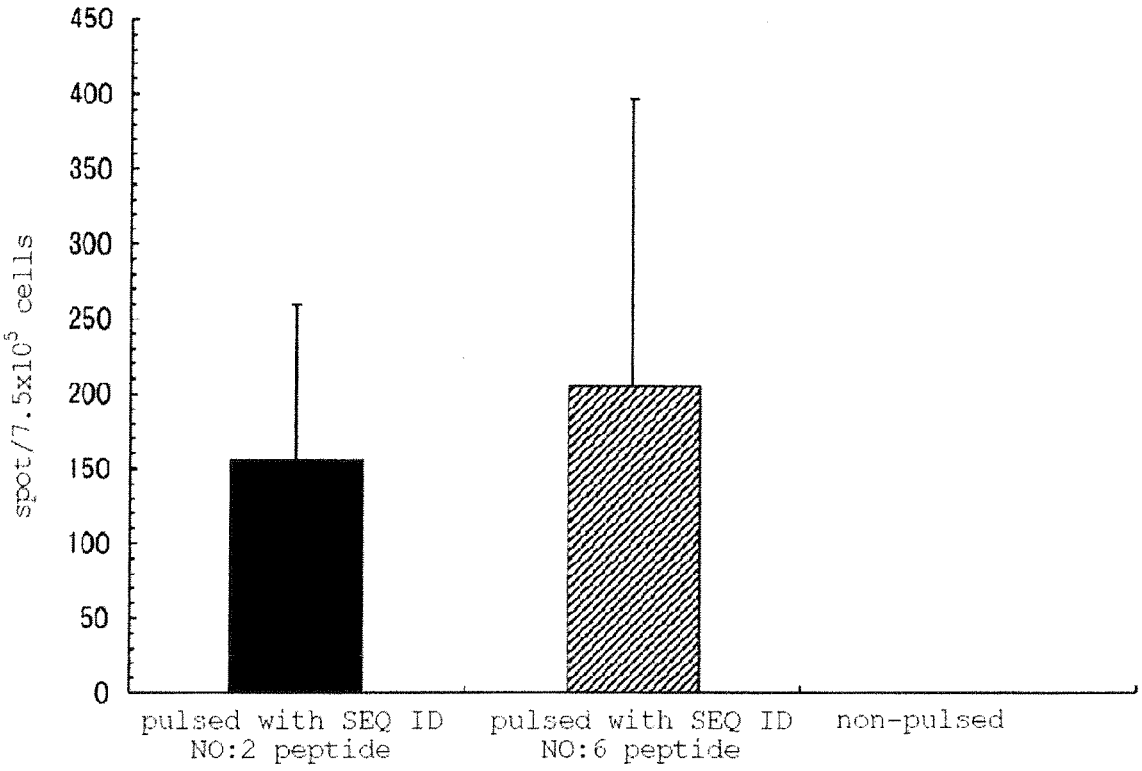

450
400
350
300
250
200
150
100
50
0
spot/7.5x10^5 cells
pulsed with SEQ ID NO:2 peptide
pulsed with SEQ ID NO:6 peptide
non-pulsed

Fig. 5

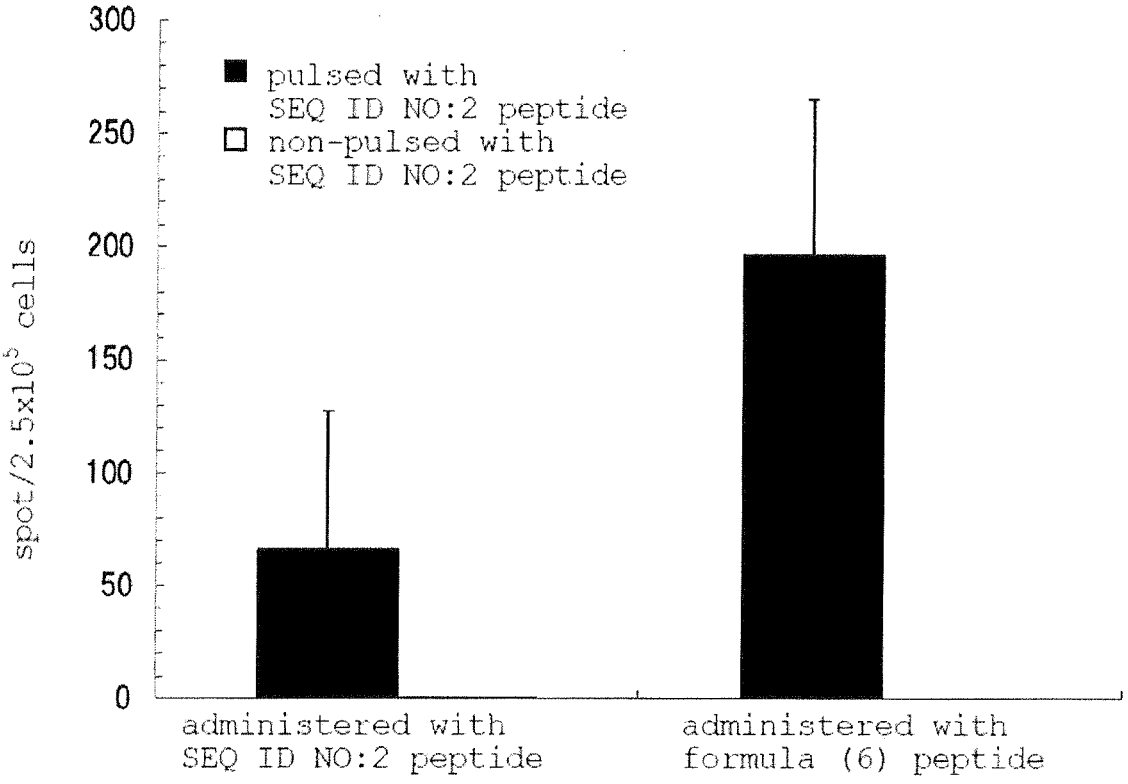

300
250
200
150
100
50
0
spot/2.5x10^5 cells
pulsed with SEQ ID NO:2 peptide
non-pulsed with SEQ ID NO:2 peptide
administered with SEQ ID NO:2 peptide
administered with formula (6) peptide

Fig. 6

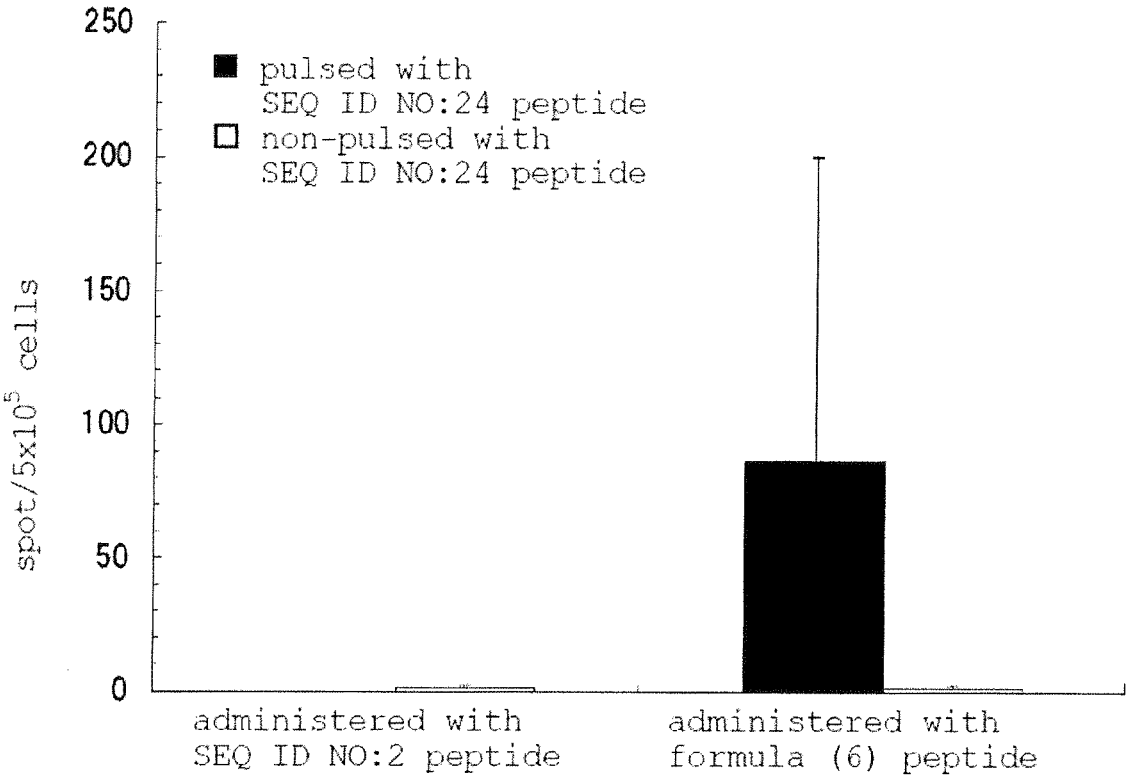

250
200
150
100
50
0
spot/5x10^5 cells
pulsed with SEQ ID NO:24 peptide
non-pulsed with SEQ ID NO:24 peptide
administered with SEQ ID NO:2 peptide
administered with formula (6) peptide

Fig. 7

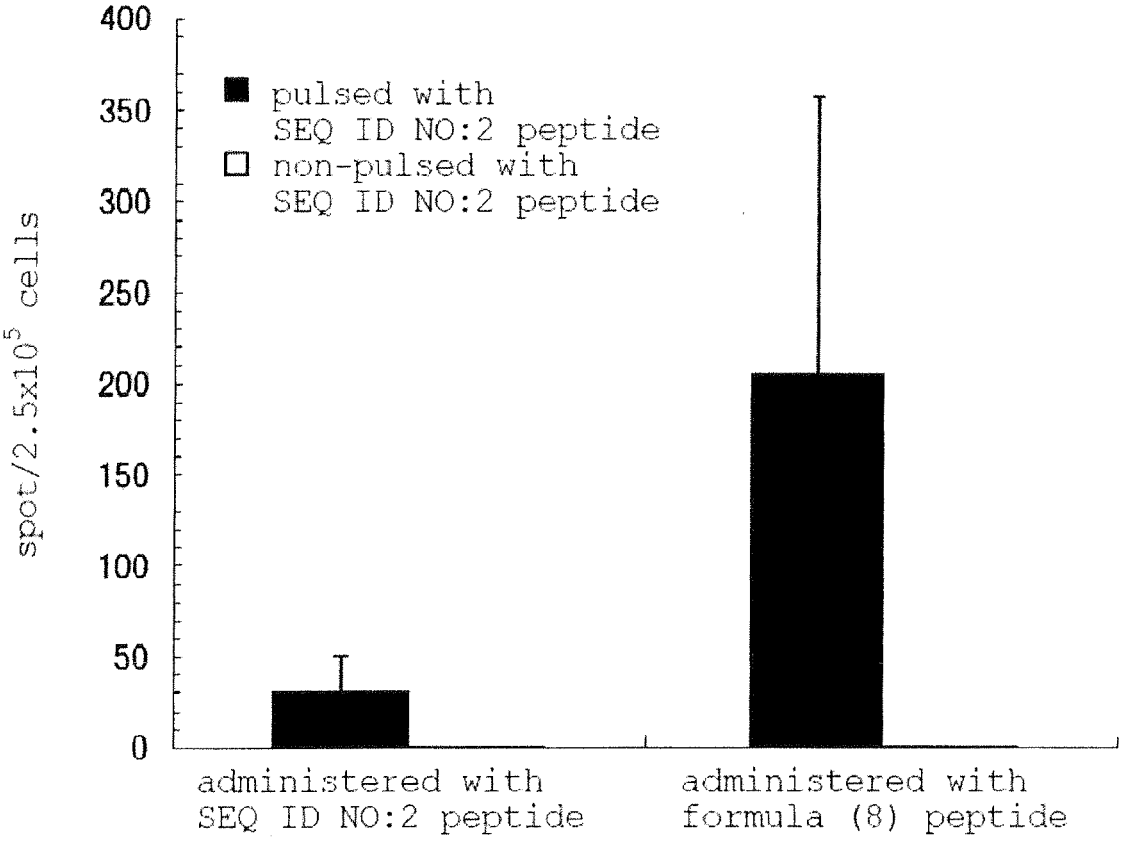

400
350
300
250
200
150
100
50
0
spot/2.5x10^5 cells
pulsed with SEQ ID NO:2 peptide
non-pulsed with SEQ ID NO:2 peptide
administered with SEQ ID NO:2 peptide
administered with formula (8) peptide

Fig. 8

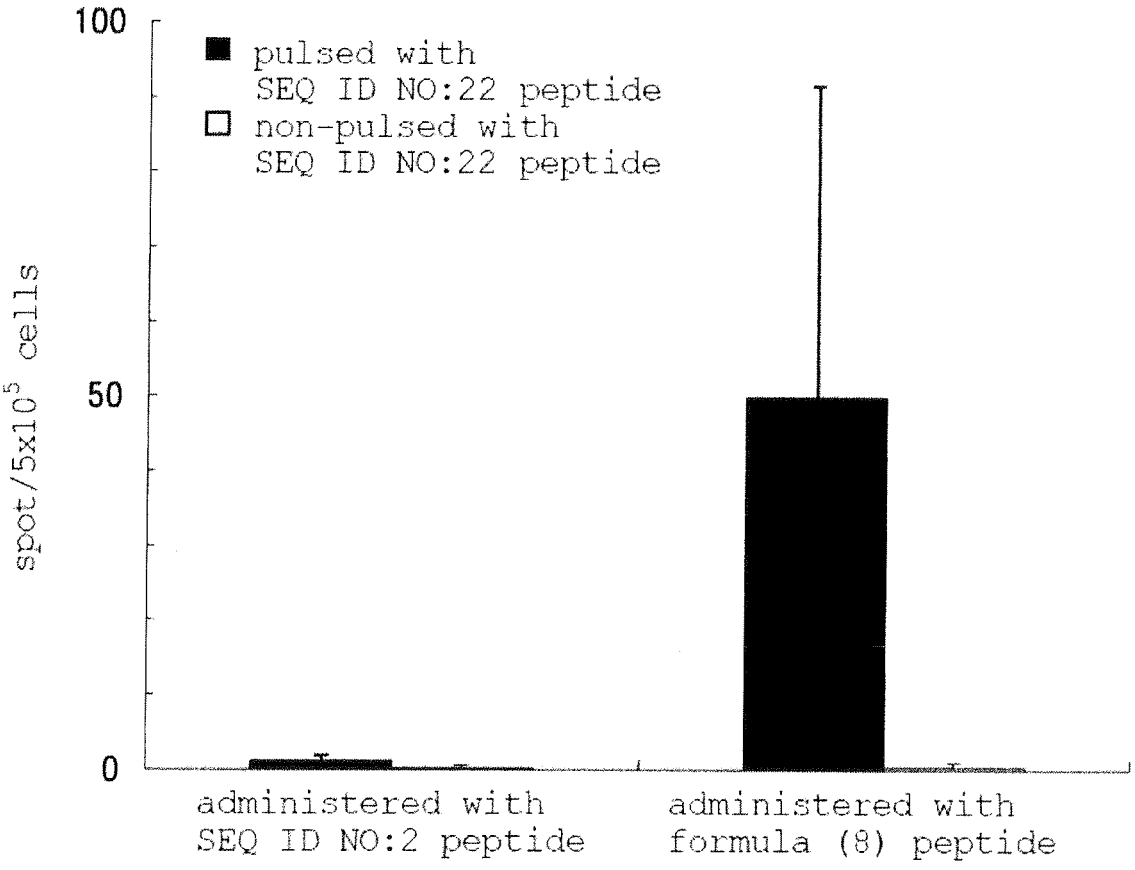

100
50
0
spot/5x10^5 cells
pulsed with SEQ ID NO:22 peptide
non-pulsed with SEQ ID NO:22 peptide
administered with SEQ ID NO:2 peptide
administered with formula (8) peptide

Fig. 9

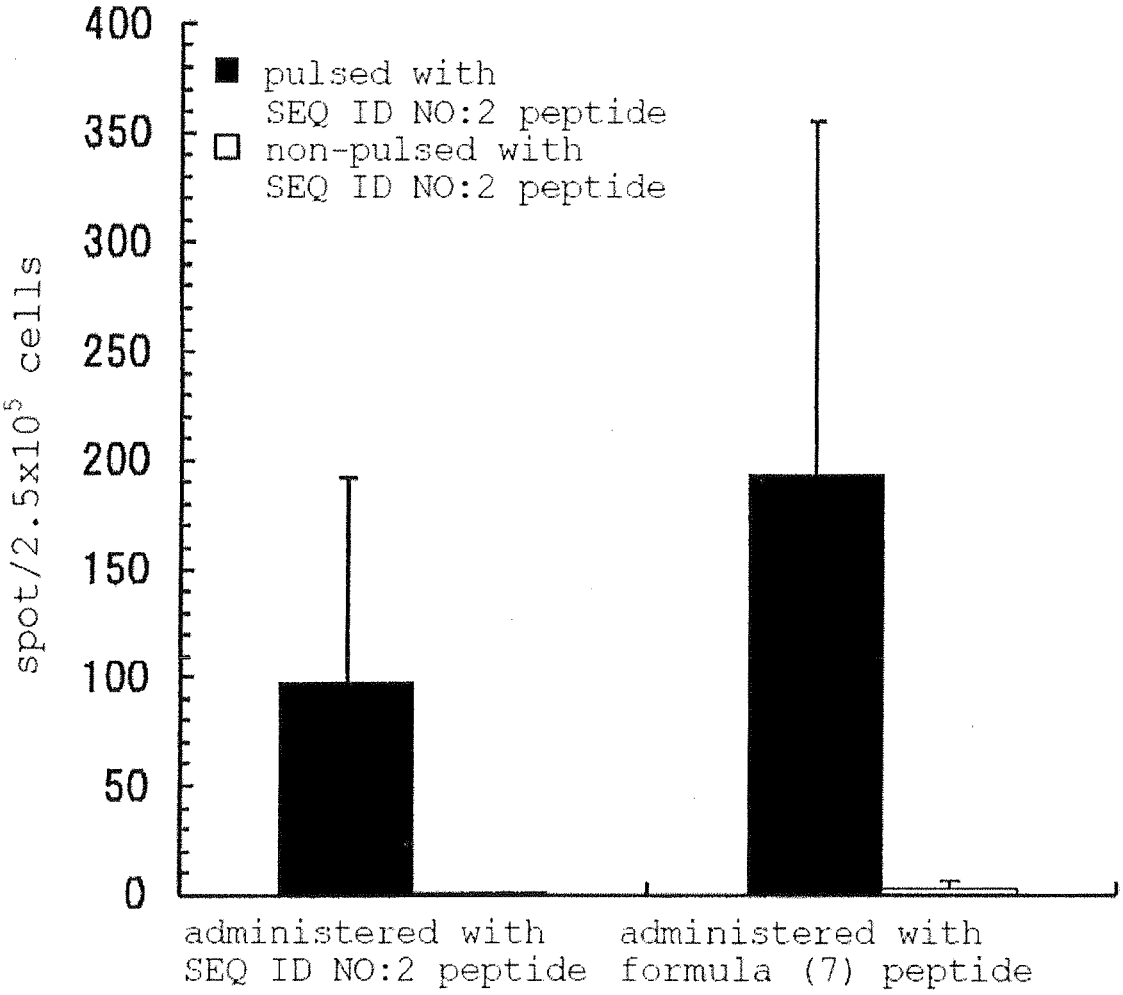

400
350
300
250
200
150
100
50
0
spot/2.5x10^5 cells
pulsed with SEQ ID NO:2 peptide
non-pulsed with SEQ ID NO:2 peptide
administered with SEQ ID NO:2 peptide
administered with formula (7) peptide

Fig. 10

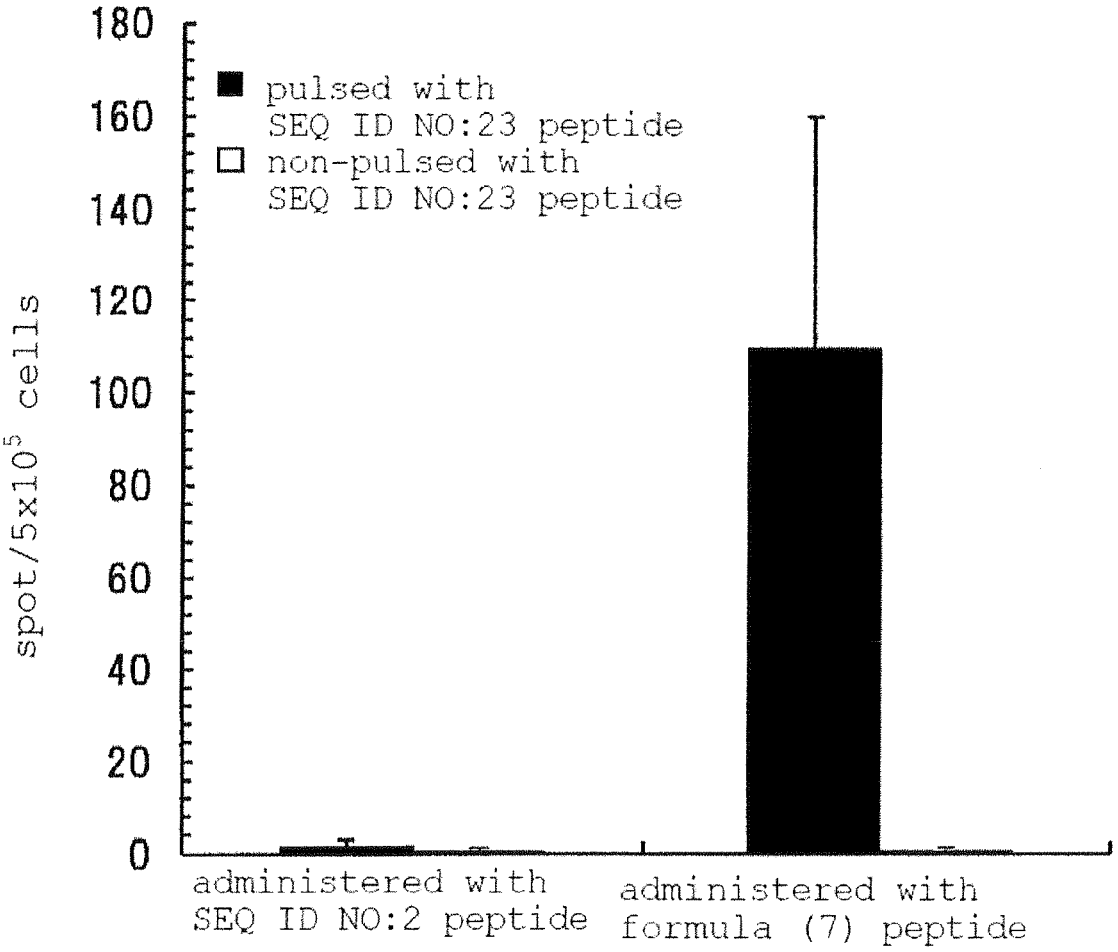

180
160
140
120
100
80
60
40
20
0
spot/5x10^5 cells
pulsed with SEQ ID NO:23 peptide
non-pulsed with SEQ ID NO:23 peptide
administered with SEQ ID NO:2 peptide
administered with formula (7) peptide

Fig. 11

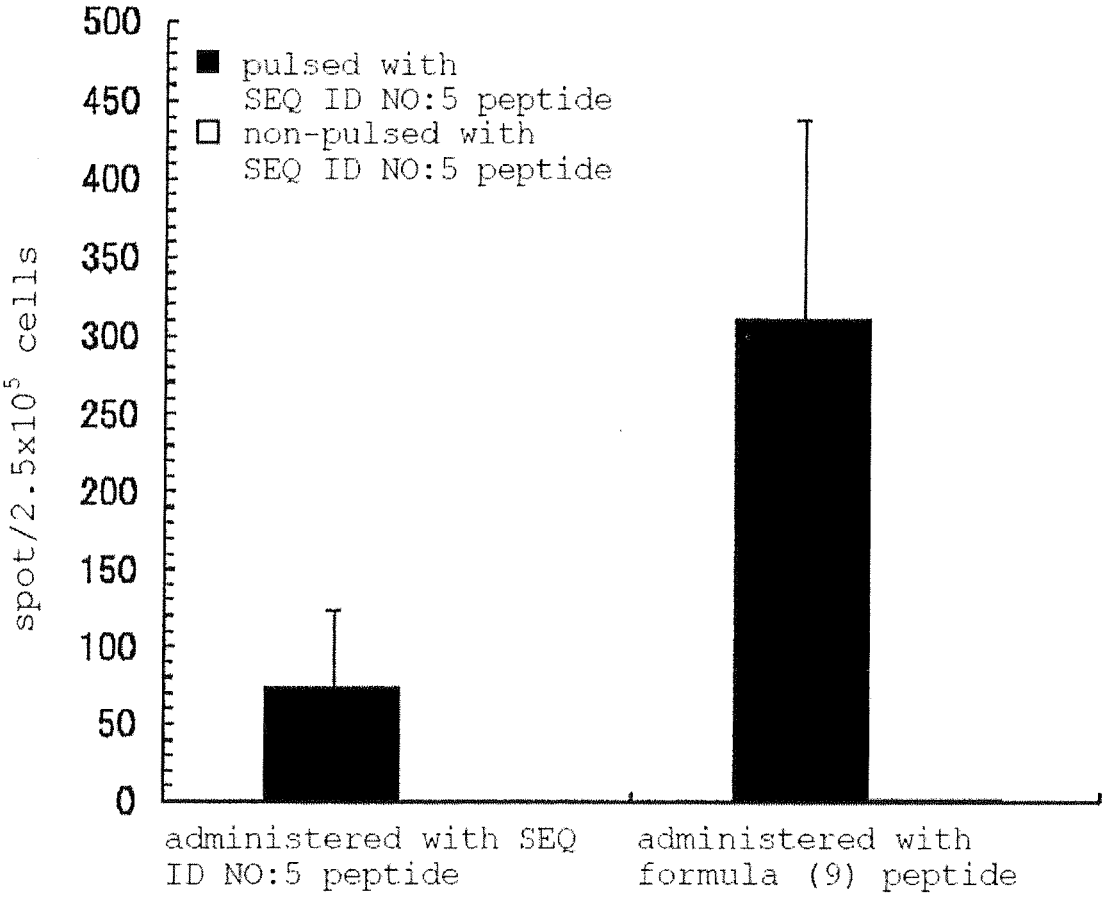

500
450
400
350
300
250
200
150
100
50
0
spot/2.5x10^5 cells
pulsed with SEQ ID NO:5 peptide
non-pulsed with SEQ ID NO:5 peptide
administered with SEQ ID NO:5 peptide
administered with formula (9) peptide

Fig. 12

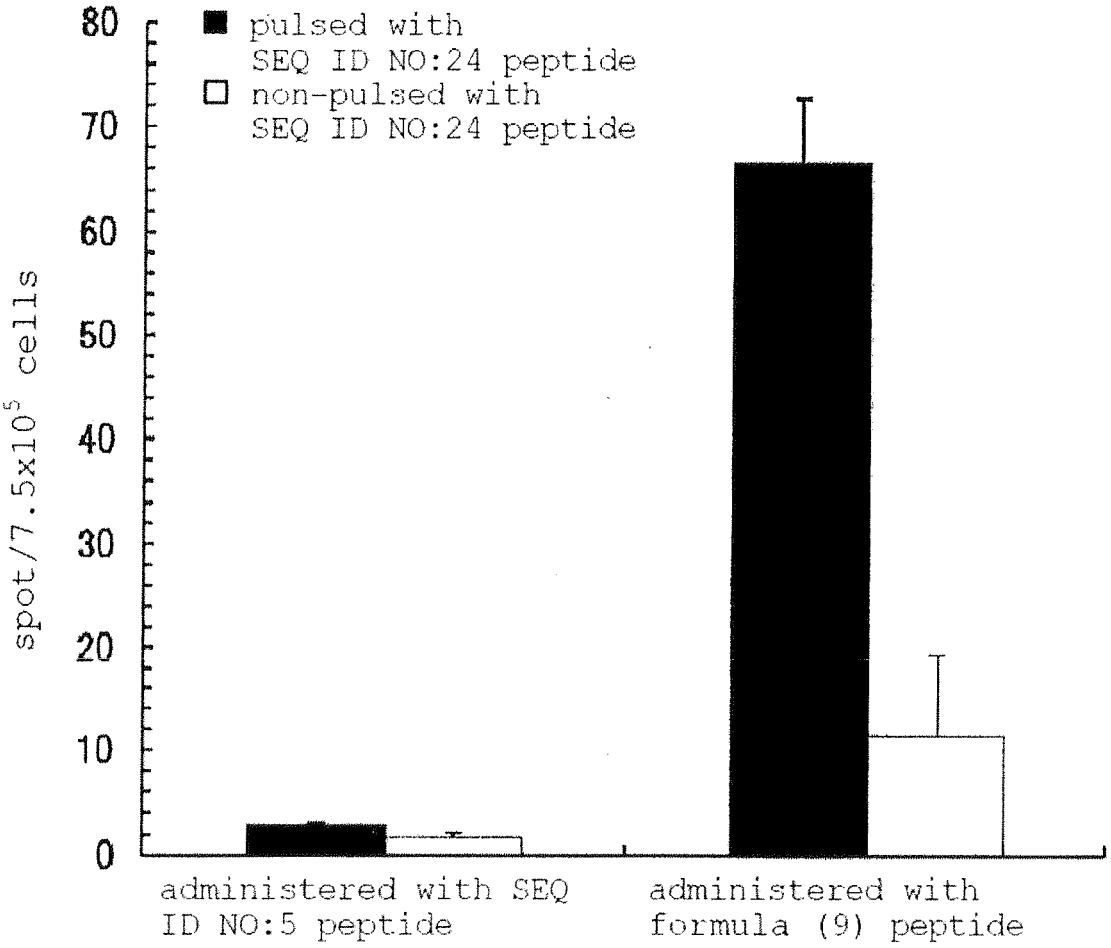

80
70
60
50
40
30
20
10
0
spot/7.5x10^5 cells
pulsed with SEQ ID NO:24 peptide
non-pulsed with SEQ ID NO:24 peptide
administered with SEQ ID NO:5 peptide
administered with formula (9) peptide

Fig. 13

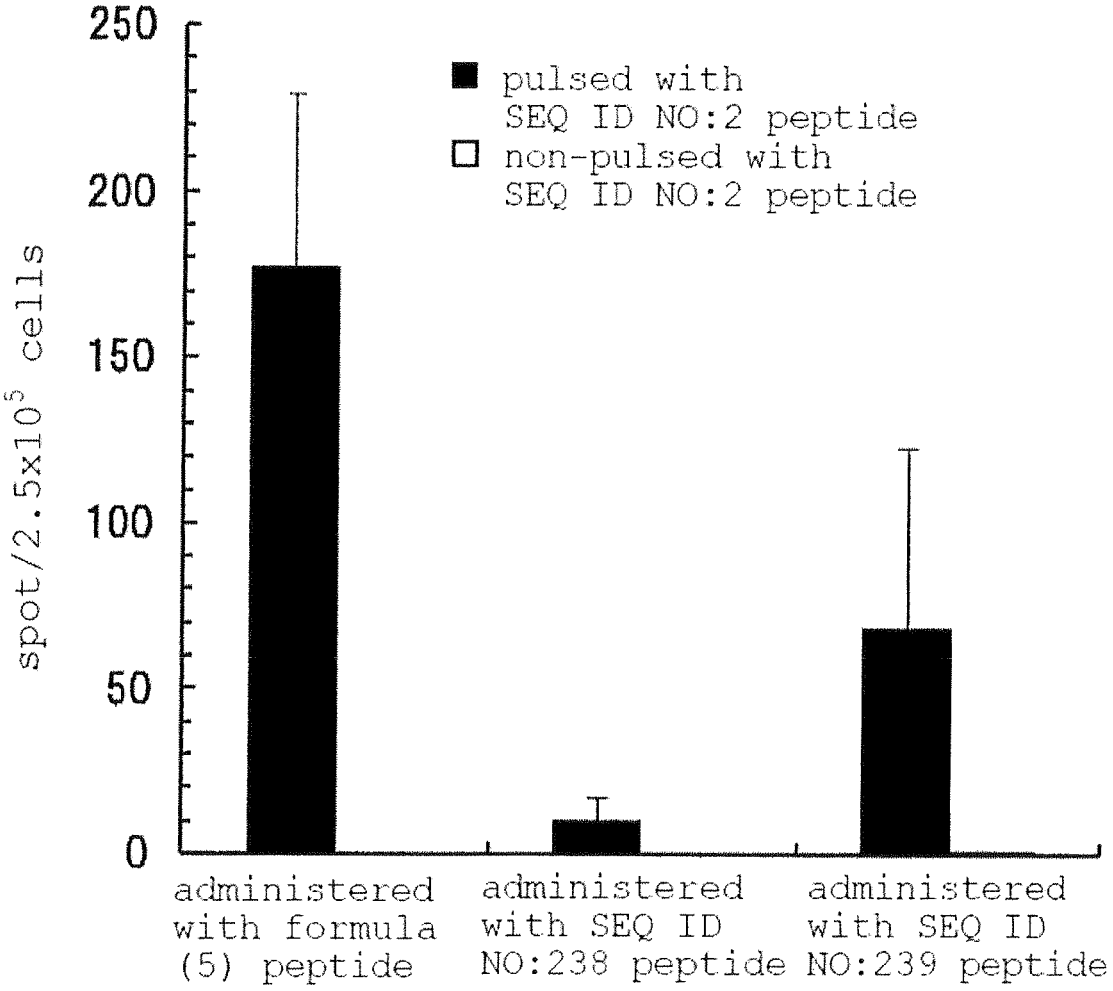

250
200
150
100
50
0
spot/2.5x10^5 cells
pulsed with SEQ ID NO:2 peptide
non-pulsed with SEQ ID NO:2 peptide
administered with formula (5) peptide
administered with SEQ ID NO:238 peptide
administered with SEQ ID NO:239 peptide

Fig. 14

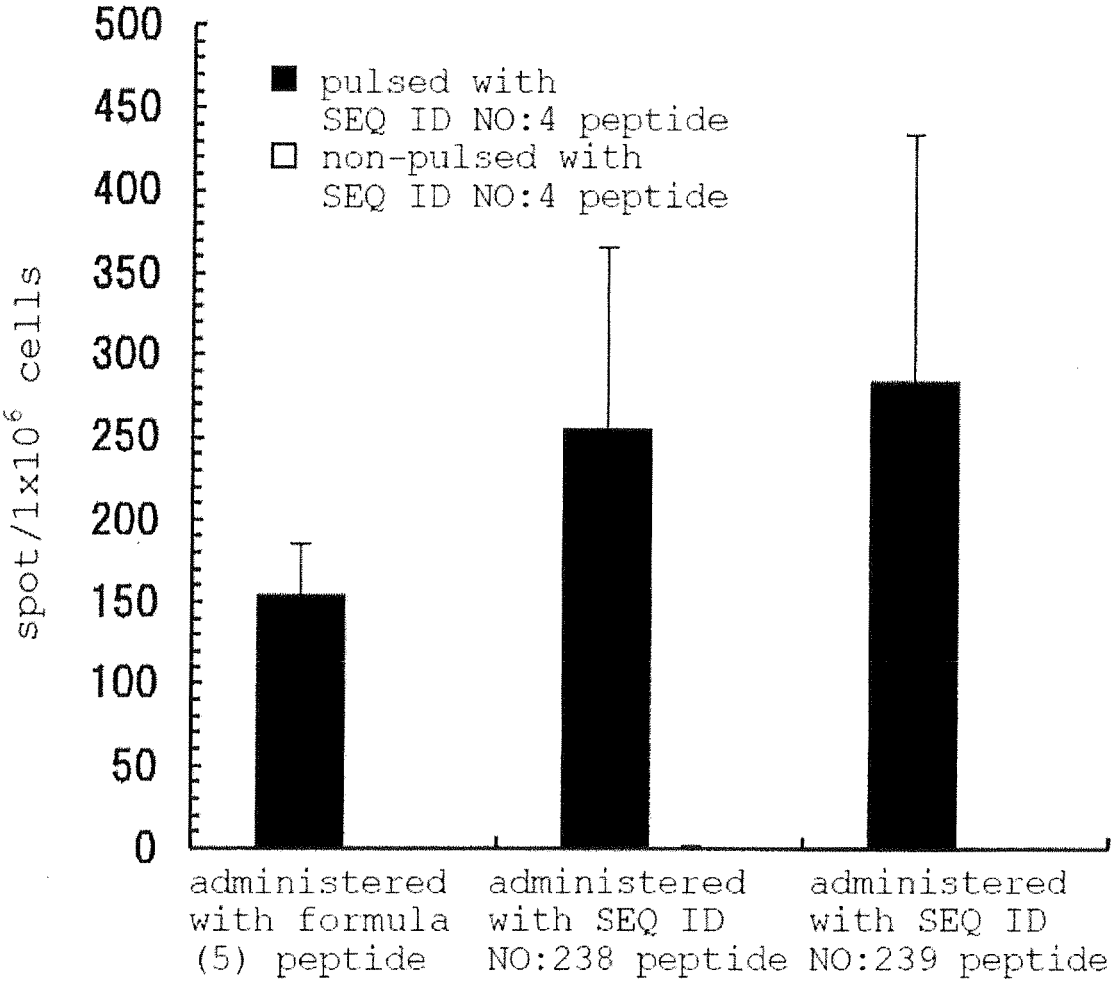

500
450
400
350
300
250
200
150
100
50
0
spot/1x10^6 cells
pulsed with SEQ ID NO:4 peptide
non-pulsed with SEQ ID NO:4 peptide
administered with formula (5) peptide
administered with SEQ ID NO:238 peptide
administered with SEQ ID NO:239 peptide

Fig. 15

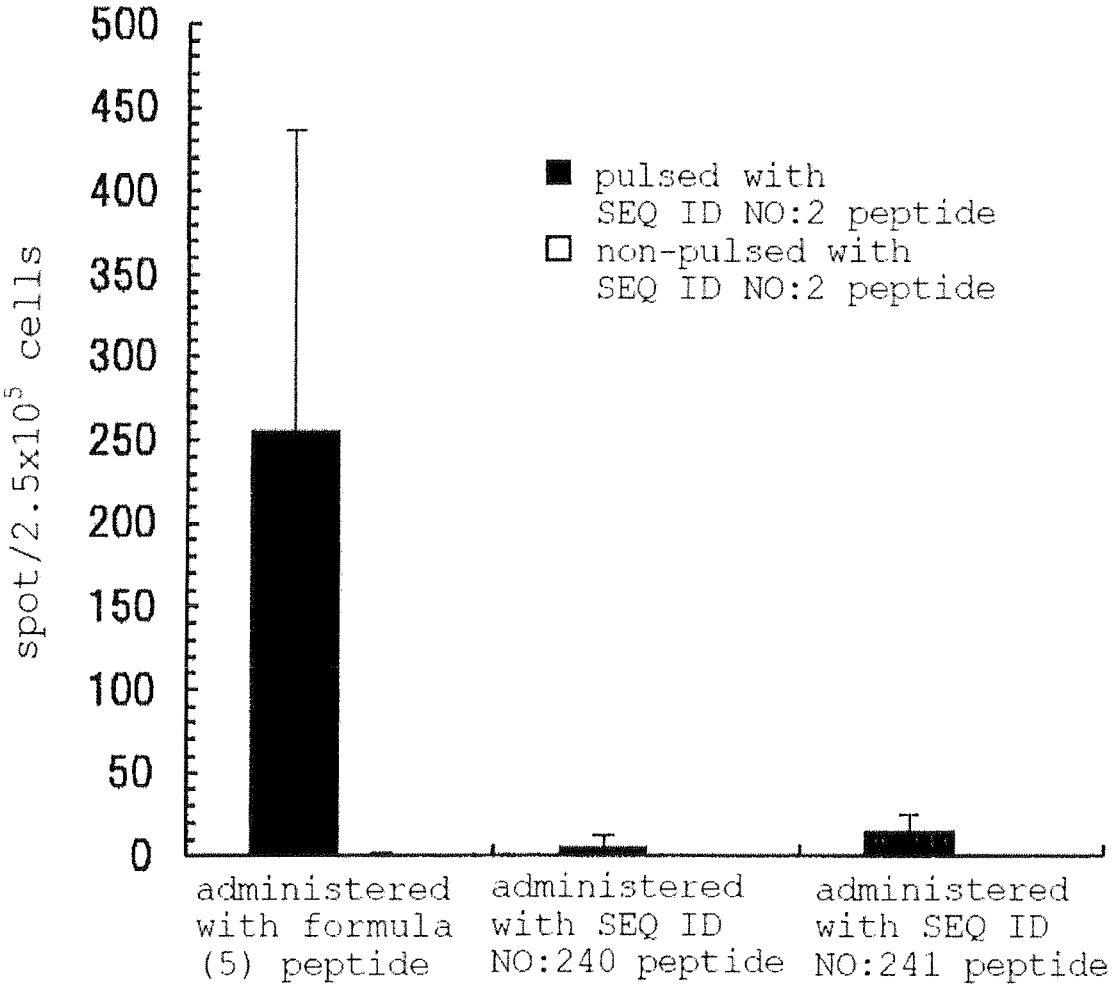

500
450
400
350
300
250
200
150
100
50
0
spot/2.5x10^5 cells
pulsed with SEQ ID NO:2 peptide
non-pulsed with SEQ ID NO:2 peptide
administered with formula (5) peptide
administered with SEQ ID NO:240 peptide
administered with SEQ ID NO:241 peptide

Fig. 16

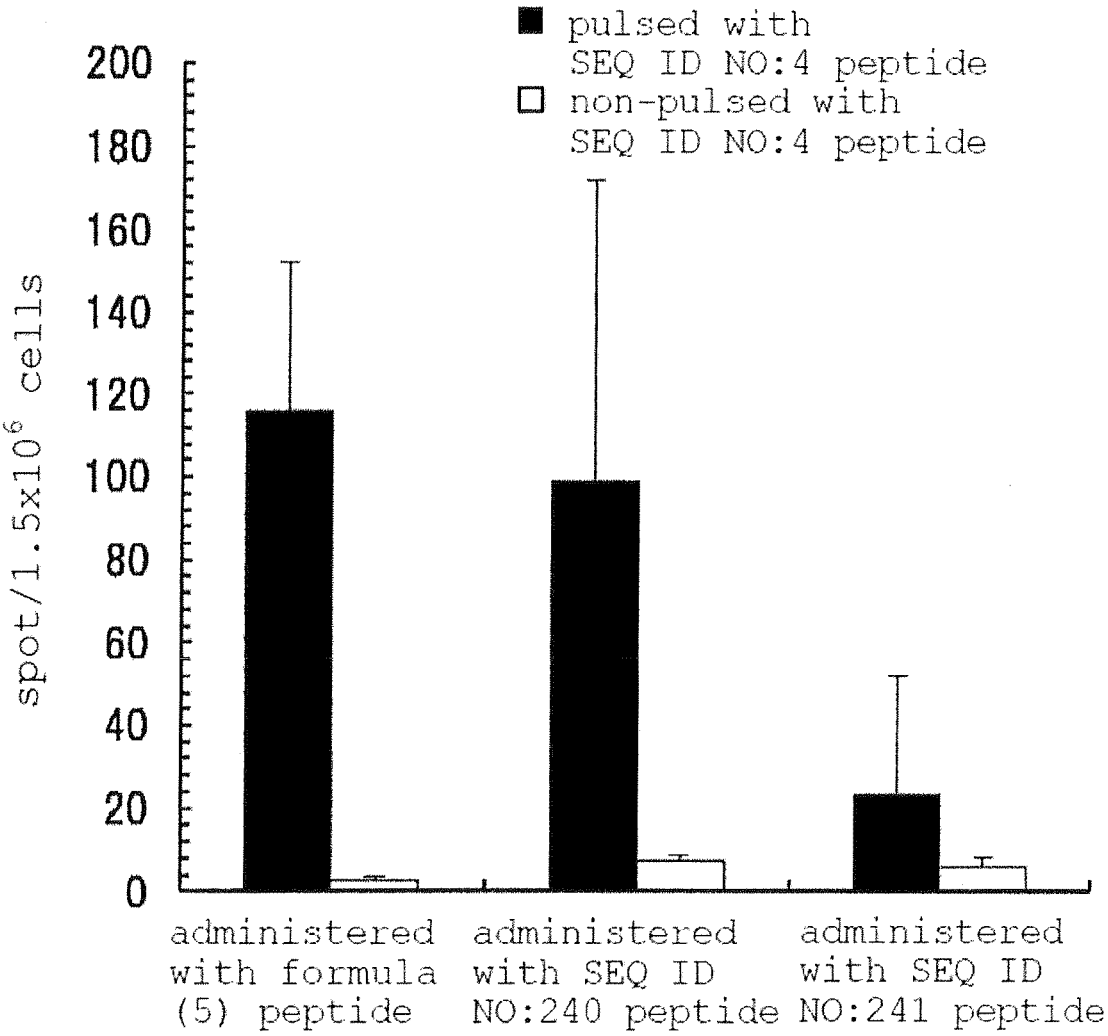

pulsed with SEQ ID NO:4 peptide
non-pulsed with SEQ ID NO:4 peptide
spot/1.5x10^6 cells
200
180
160
140
120
100
80
60
40
20
0
administered with formula (5) peptide
administered with SEQ ID NO:240 peptide
administered with SEQ ID NO:241 peptide

Fig. 17

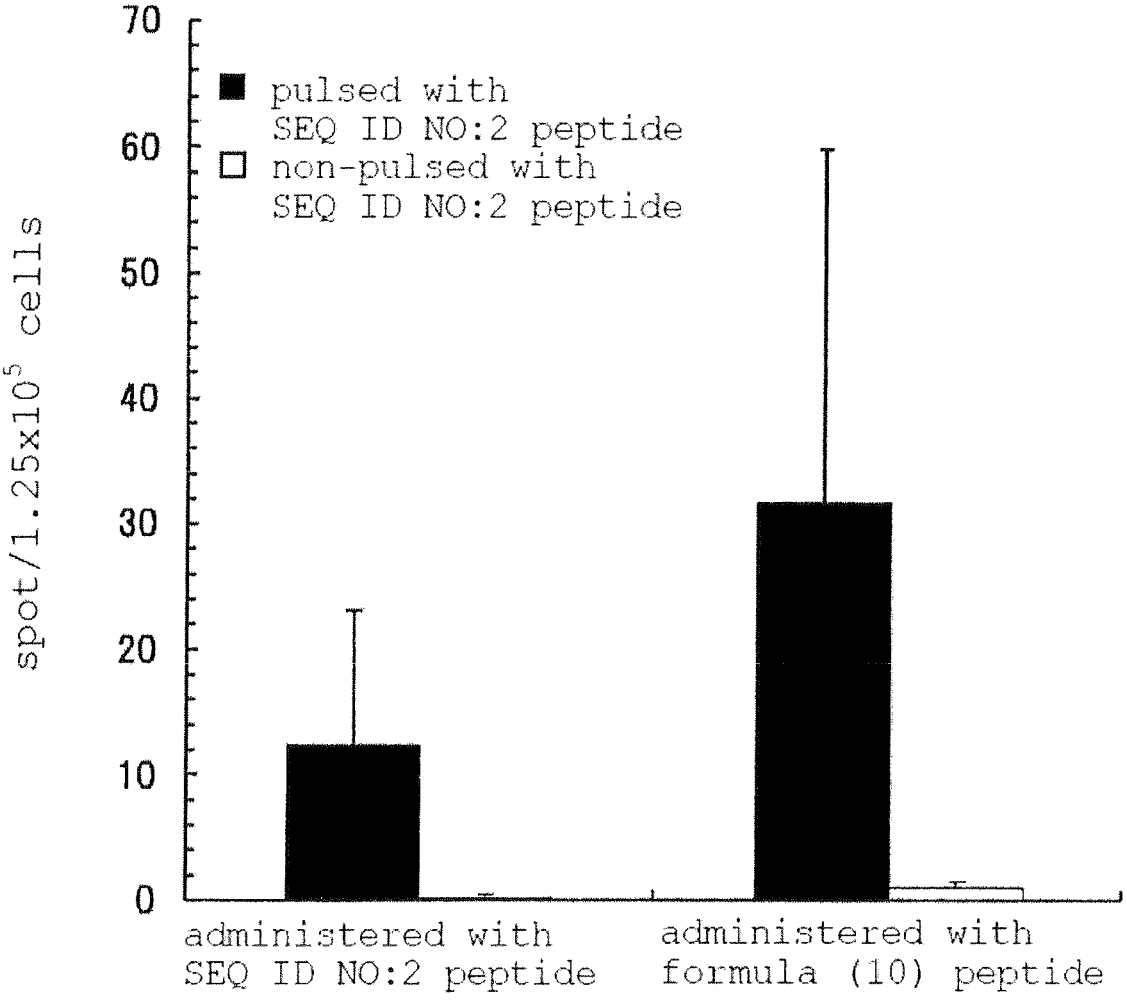

70
60
50
40
30
20
10
0
spot/1.25x10^5 cells
pulsed with SEQ ID NO:2 peptide
non-pulsed with SEQ ID NO:2 peptide
administered with SEQ ID NO:2 peptide
administered with formula (10) peptide

Fig. 18

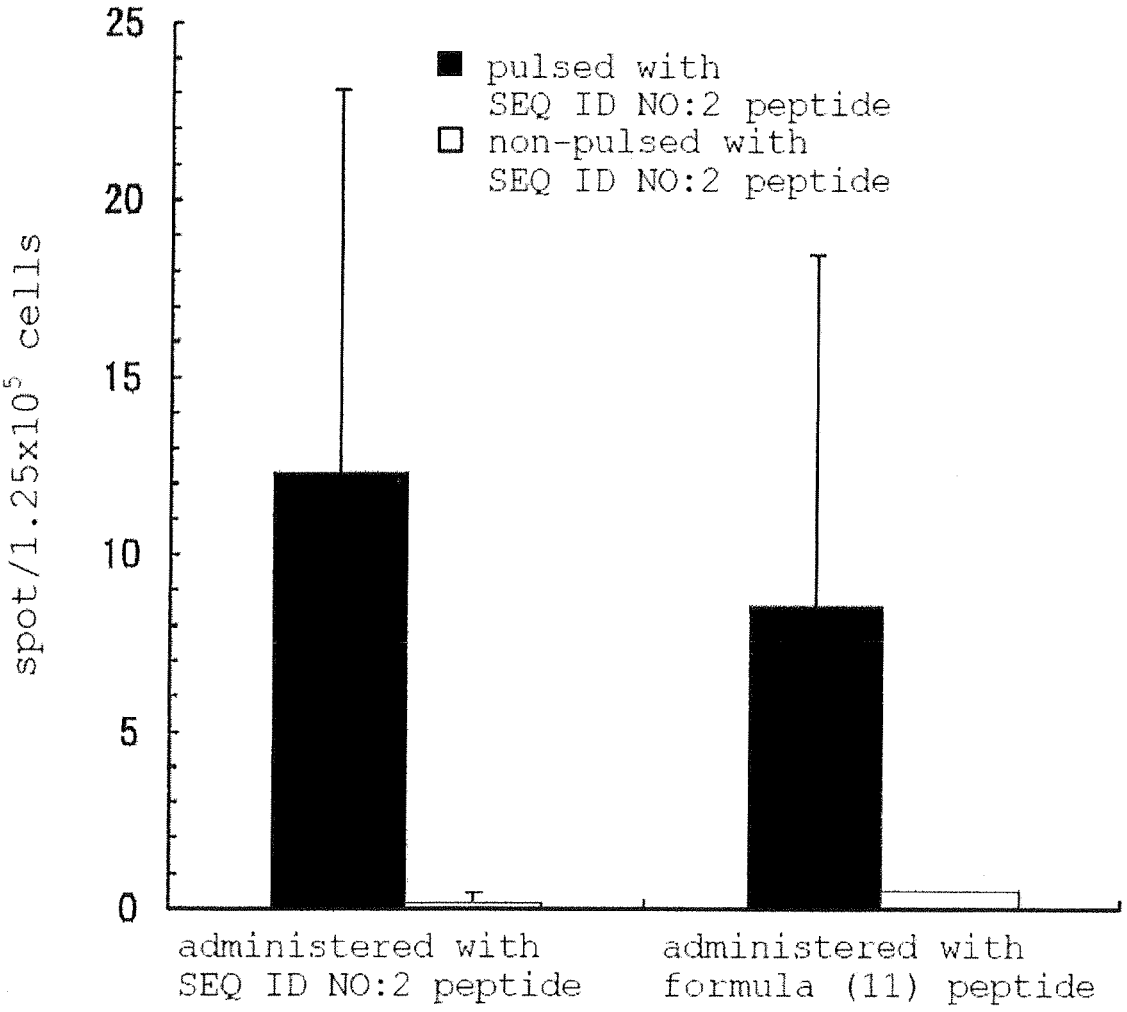

25
20
15
10
5
0
spot/1.25x10^5 cells
pulsed with SEQ ID NO:2 peptide
non-pulsed with SEQ ID NO:2 peptide
administered with SEQ ID NO:2 peptide
administered with formula (11) peptide

Fig. 19

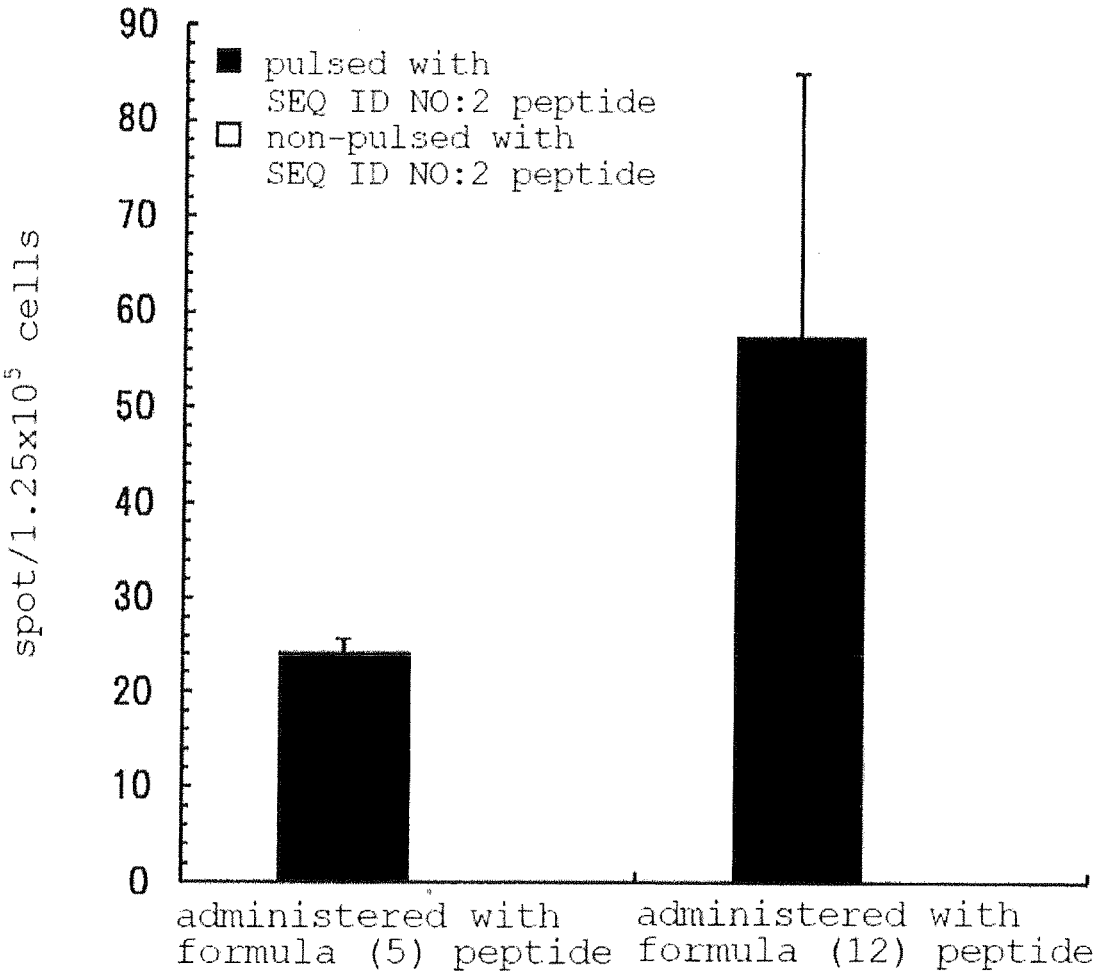

90
80
70
60
50
40
30
20
10
0
spot/1.25x10^5 cells
pulsed with SEQ ID NO:2 peptide
non-pulsed with SEQ ID NO:2 peptide
administered with formula (5) peptide
administered with formula (12) peptide

Fig. 20

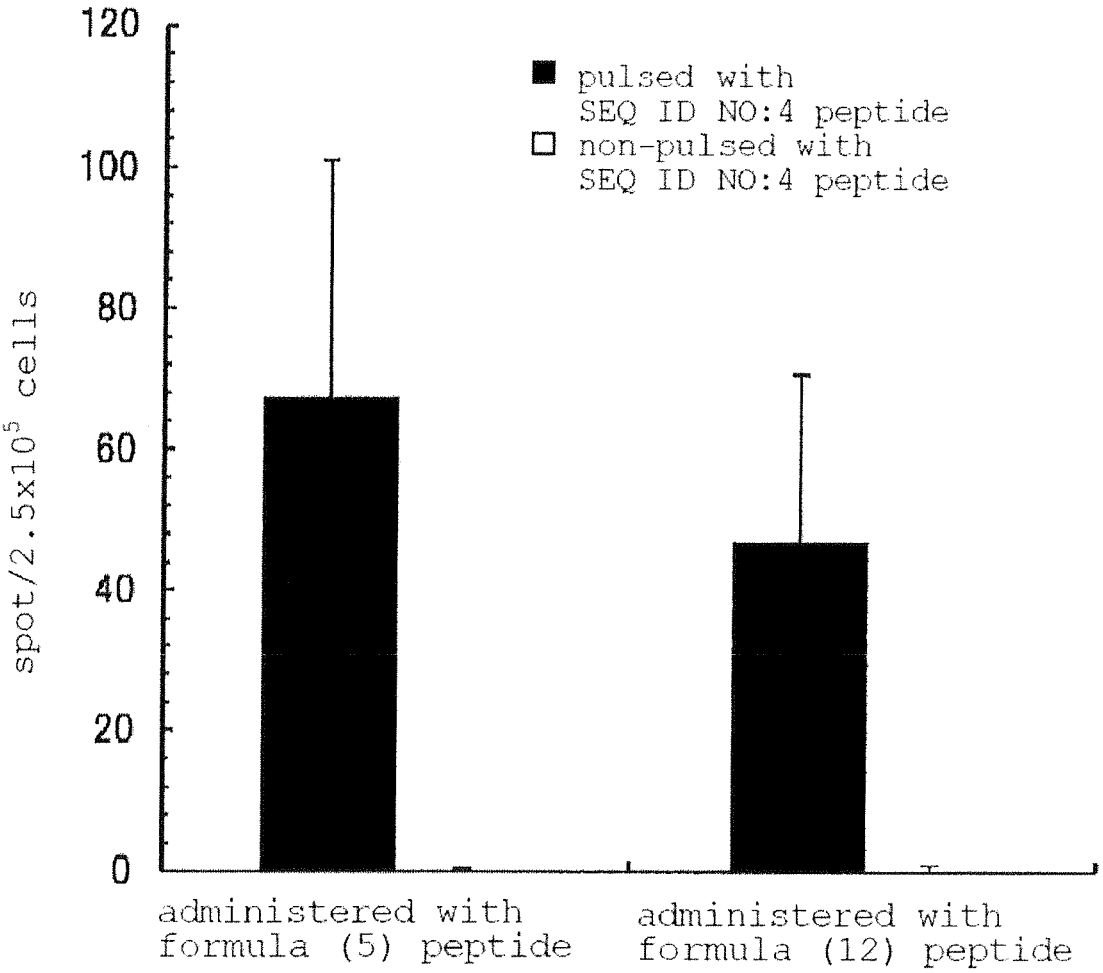

120
100
80
60
40
20
0
spot/2.5x10^5 cells
pulsed with SEQ ID NO:4 peptide
non-pulsed with SEQ ID NO:4 peptide
administered with formula (5) peptide
administered with formula (12) peptide

Fig. 21

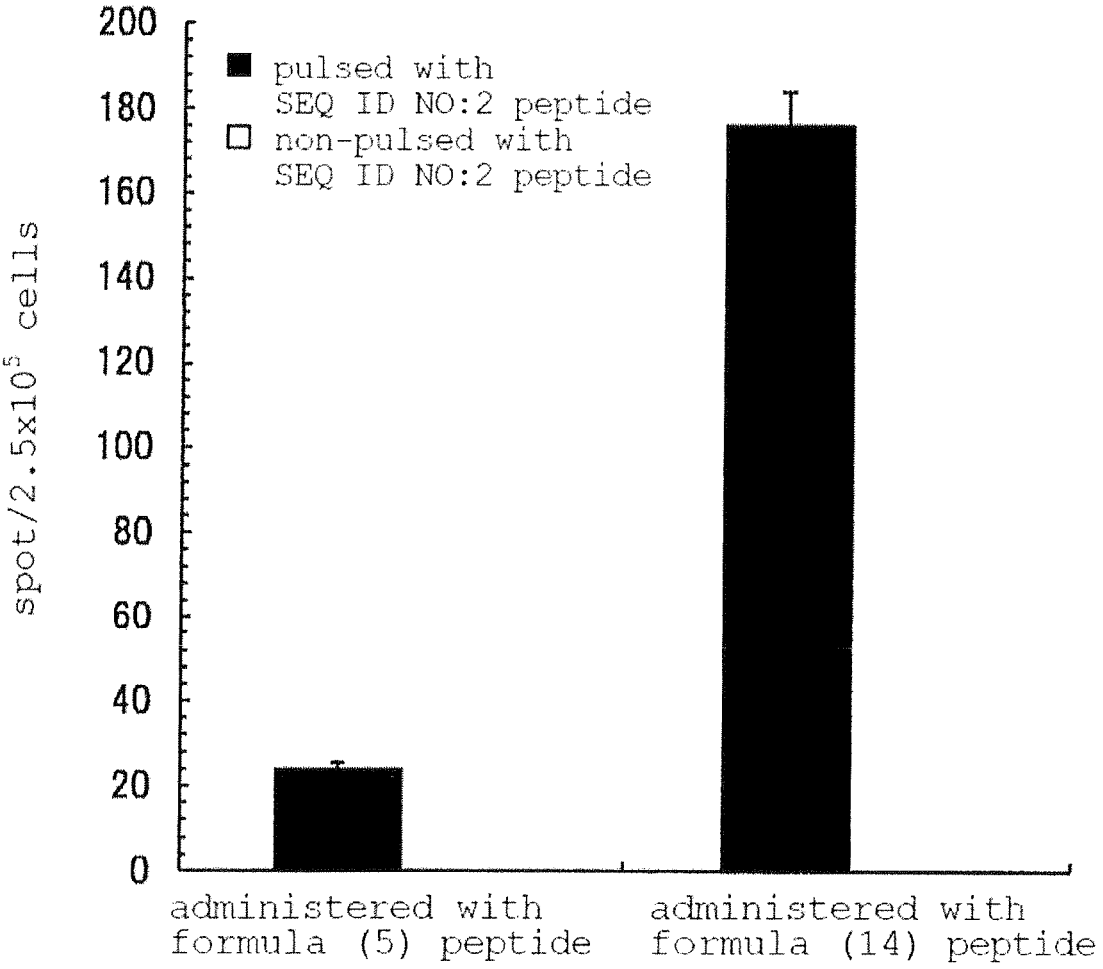

200
180
160
140
120
100
80
60
40
20
0
spot/2.5x10^5 cells
pulsed with SEQ ID NO:2 peptide
non-pulsed with SEQ ID NO:2 peptide
administered with formula (5) peptide
administered with formula (14) peptide

Fig. 22

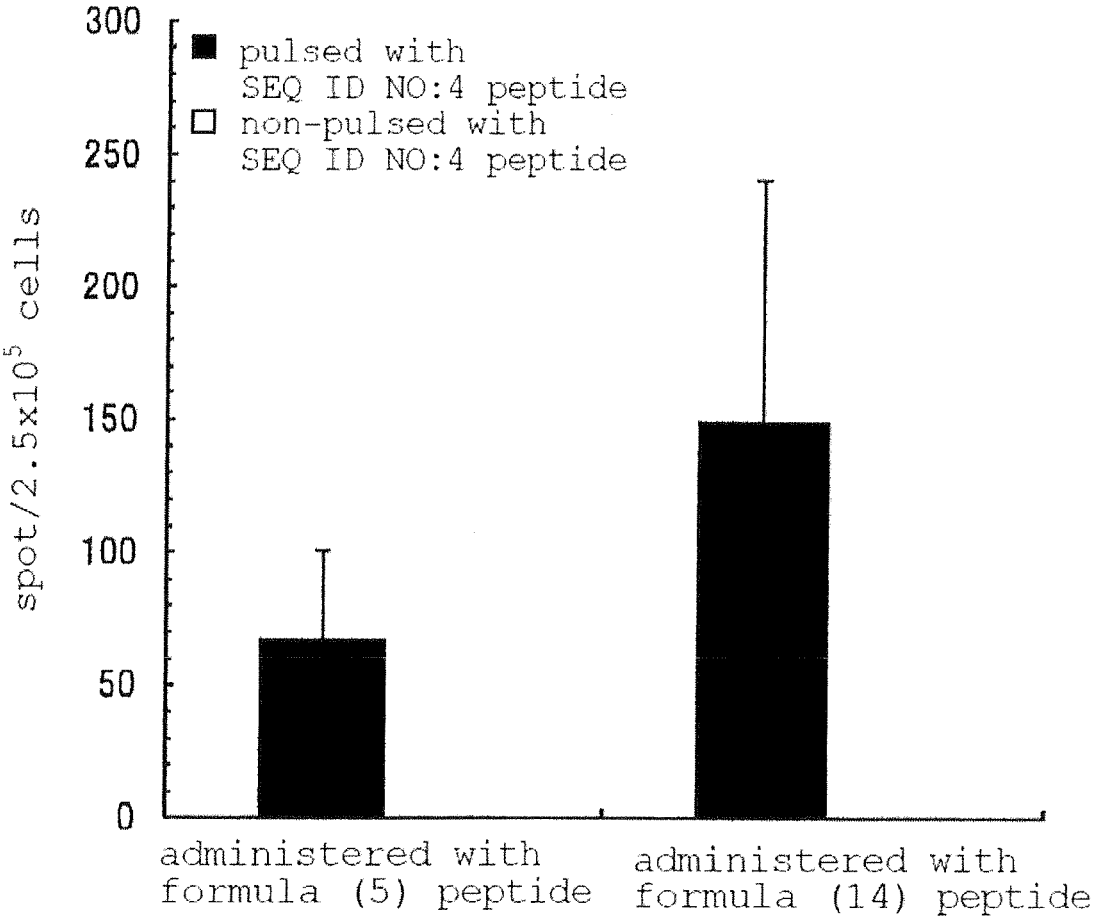

300
250
200
150
100
50
0
spot/2.5x10^5 cells
pulsed with SEQ ID NO:4 peptide
non-pulsed with SEQ ID NO:4 peptide
administered with formula (5) peptide
administered with formula (14) peptide

Fig. 23

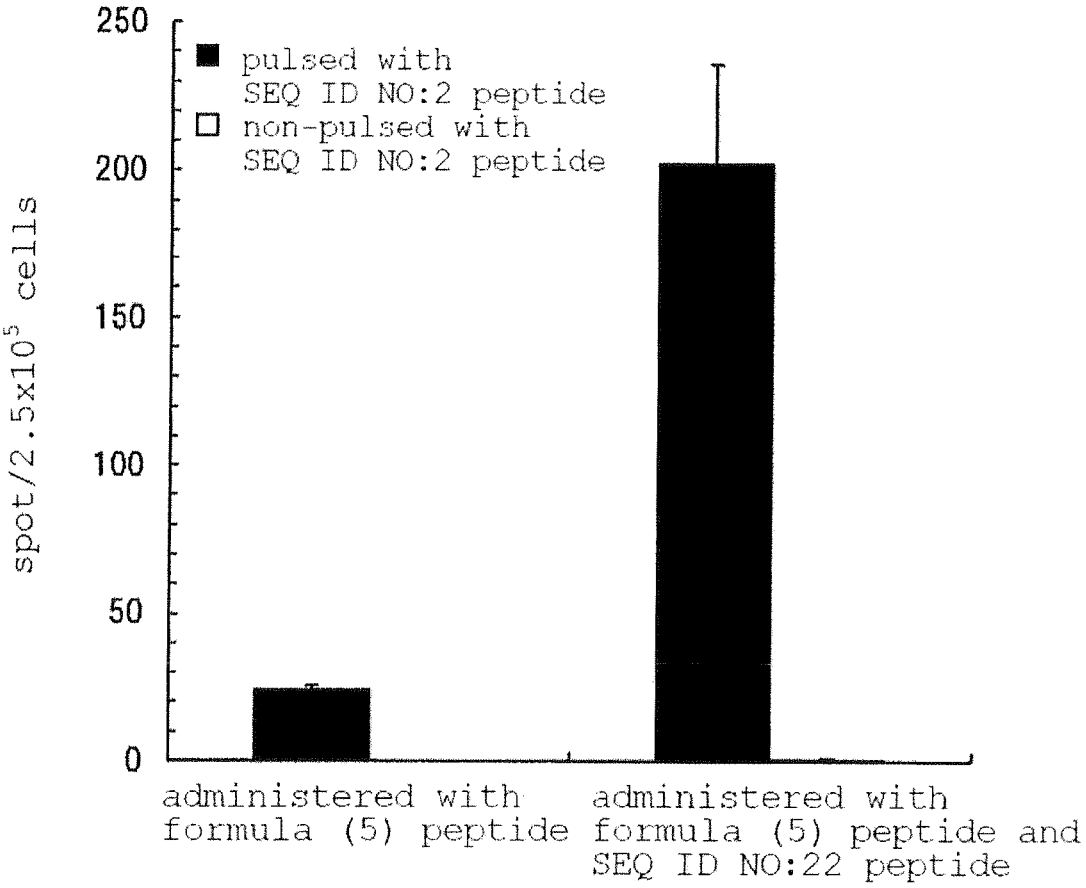

250
200
150
100
50
0
spot/2.5x10^5 cells
pulsed with SEQ ID NO:2 peptide
non-pulsed with SEQ ID NO:2 peptide
administered with formula (5) peptide
administered with formula (5) peptide and SEQ ID NO:22 peptide

Fig. 24

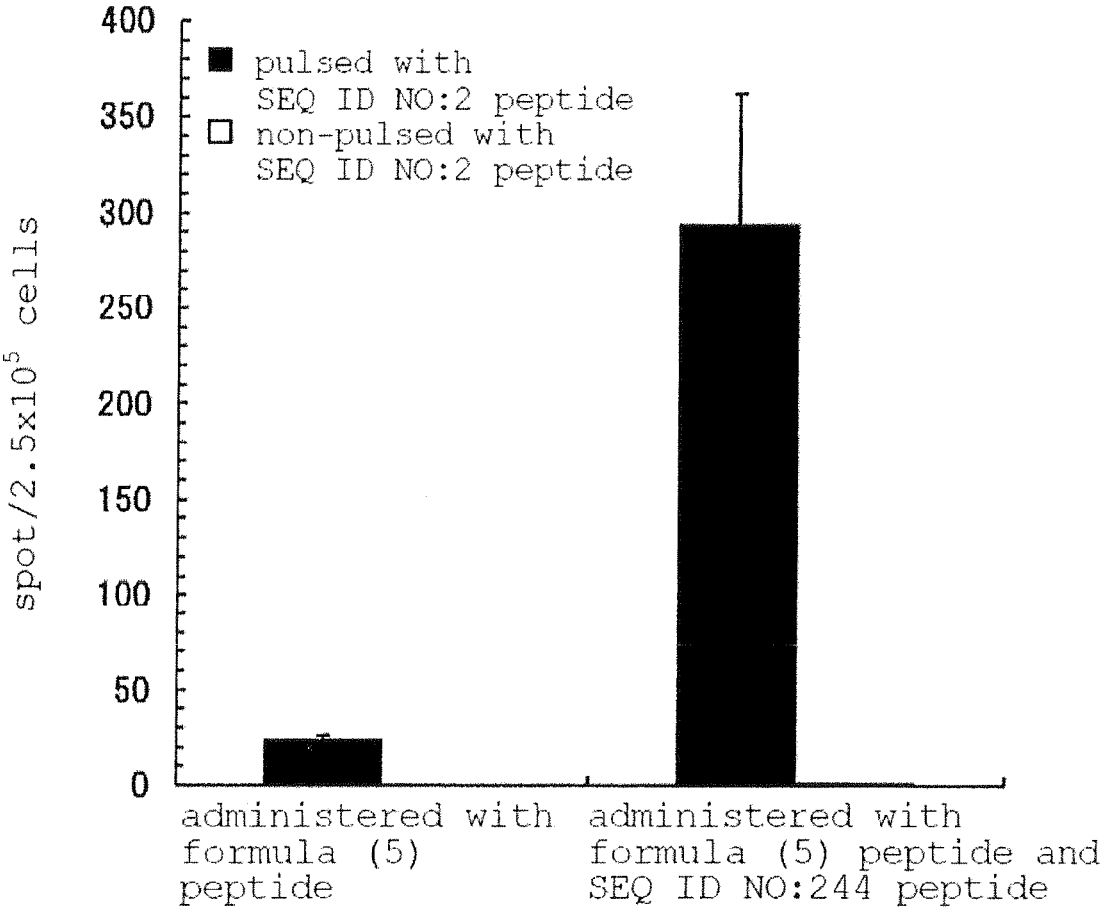

400
350
300
250
200
150
100
50
0
spot/2.5x10^5 cells
pulsed with SEQ ID NO:2 peptide
non-pulsed with SEQ ID NO:2 peptide
administered with formula (5) peptide
administered with formula (5) peptide and SEQ ID NO:244 peptide

Fig. 25

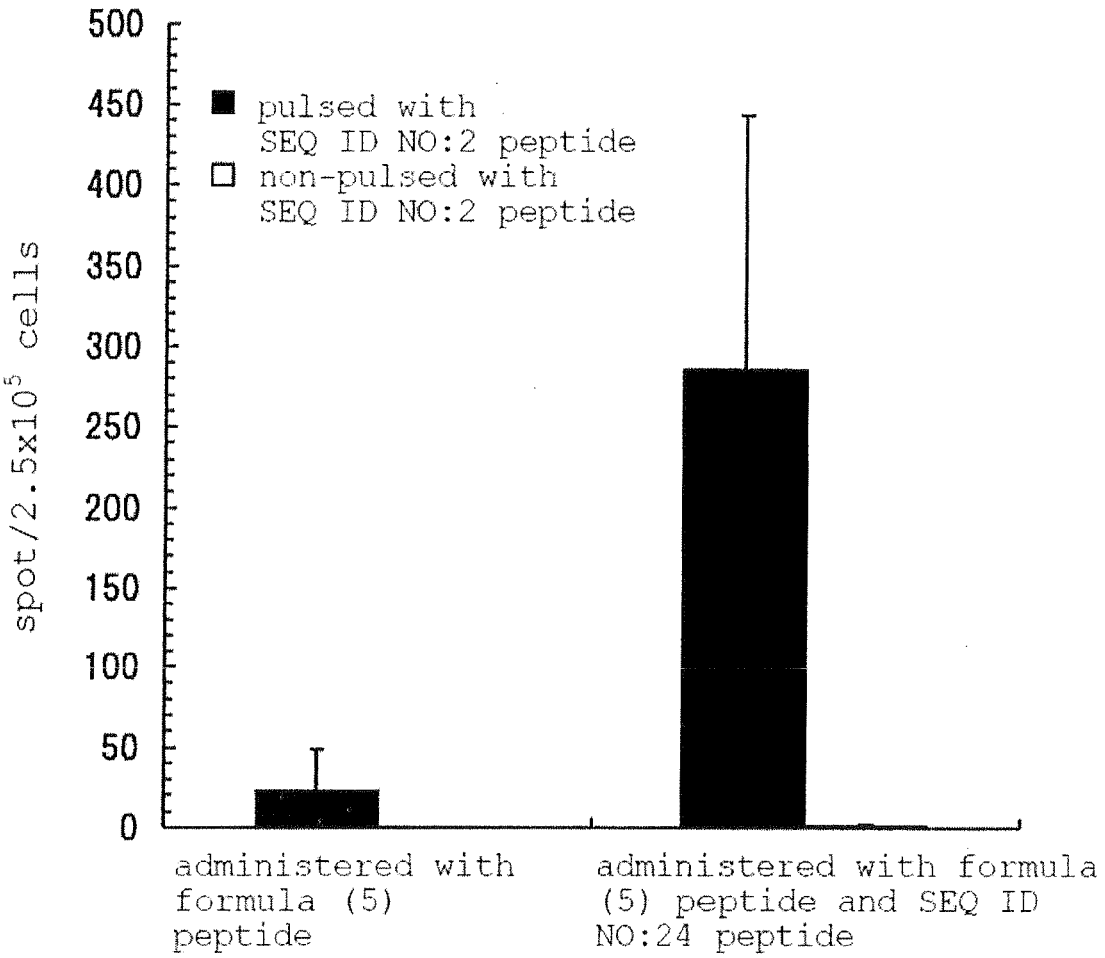

500
450
400
350
300
250
200
150
100
50
0
spot/2.5x10^5 cells
pulsed with SEQ ID NO:2 peptide
non-pulsed with SEQ ID NO:2 peptide
administered with formula (5) peptide
administered with formula (5) peptide and SEQ ID NO:24 peptide

Fig. 26

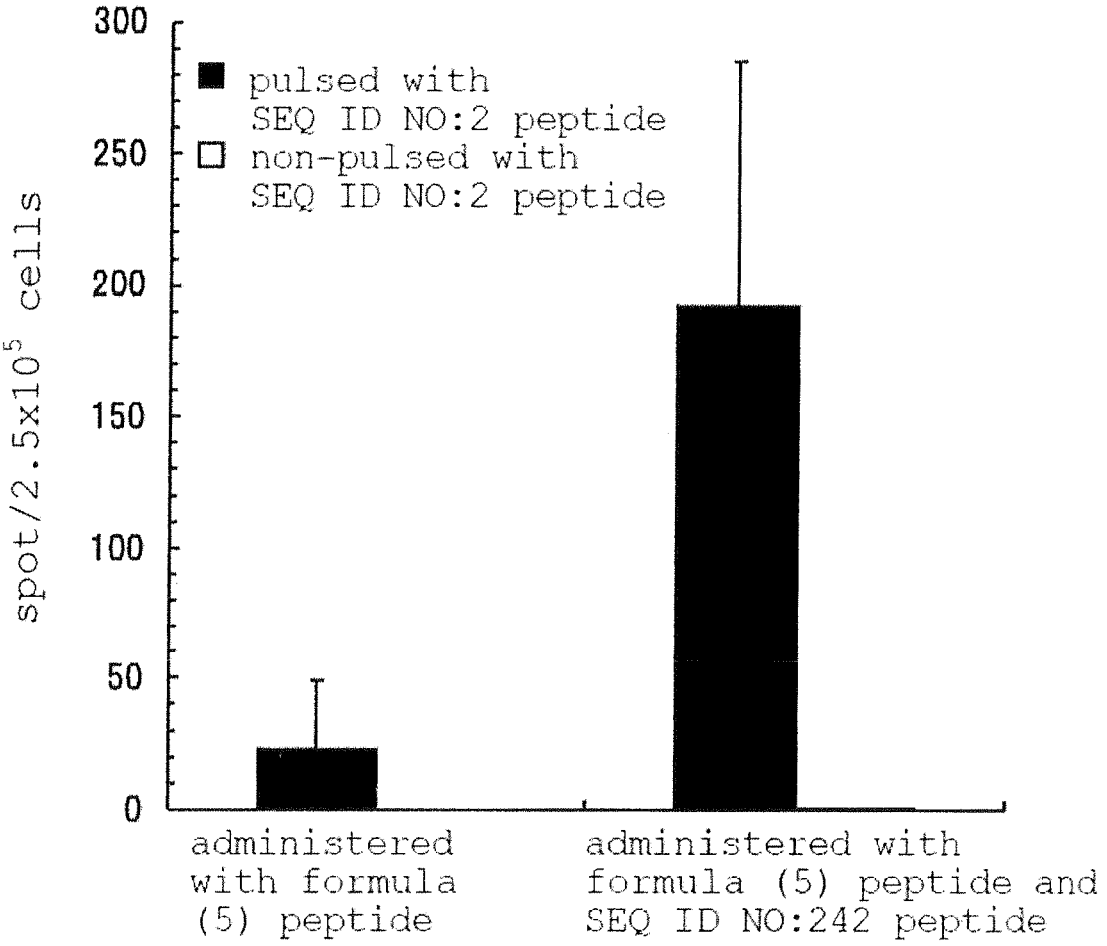
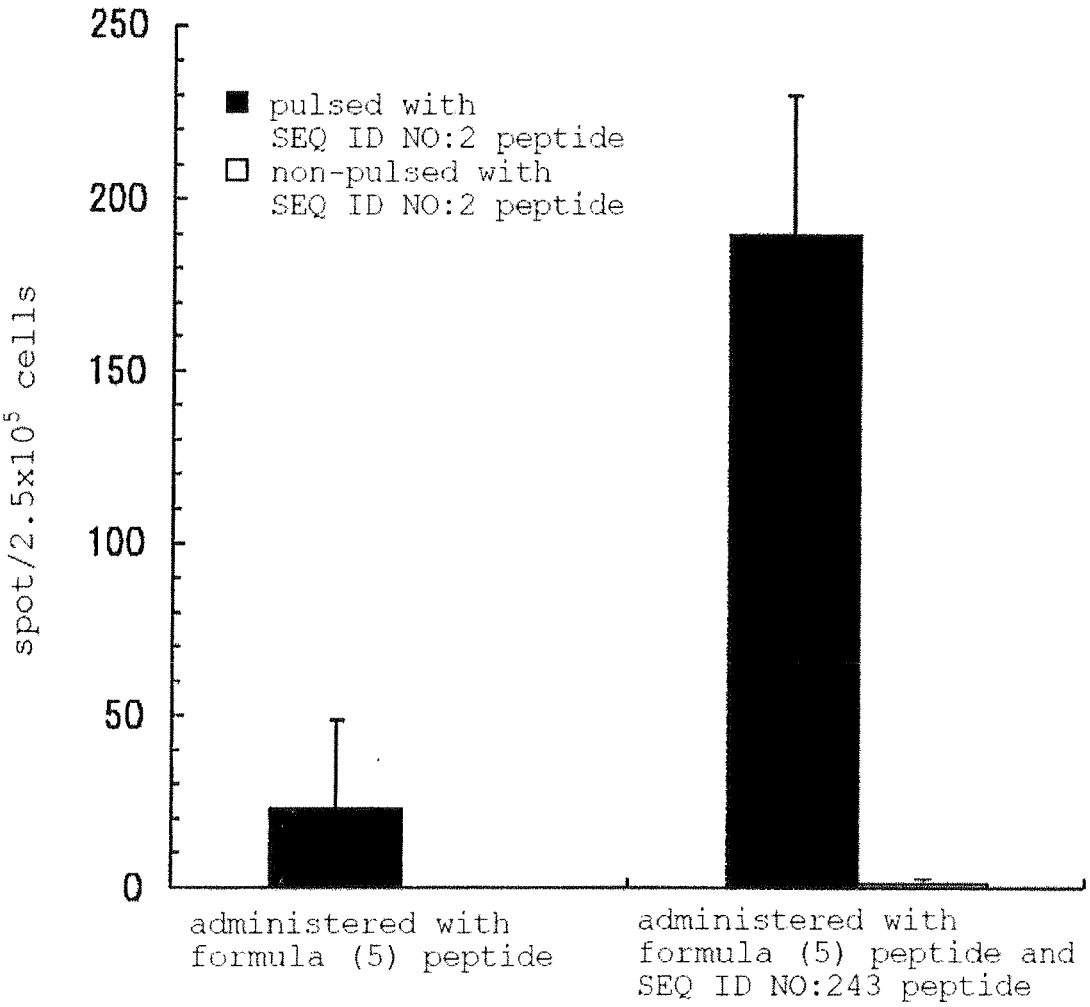

300
250
200
150
100
50
0
spot/2.5x10^5 cells
pulsed with SEQ ID NO:2 peptide
non-pulsed with SEQ ID NO:2 peptide
administered with formula (5) peptide
administered with formula (5) peptide and SEQ ID NO:242 peptide

Fig. 27


250
200
150
100
50
0
spot/2.5x10^5 cells
pulsed with SEQ ID NO:2 peptide
non-pulsed with SEQ ID NO:2 peptide
administered with formula (5) peptide
administered with formula (5) peptide and SEQ ID NO:243 peptide

SEQUENCE LISTING

<110> Sumitomo Dainippon Pharma Co., Ltd.
International Institute of Cancer Immunology, Inc.

<120> WT1 ANTIGEN PEPTIDE CONJUGATE VACCINE

<130> 672495

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Gln Trp Ala Pro Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala Tyr
        35                  40                  45

Gly Ser Leu Gly Gly Pro Ala Pro Pro Pro Ala Pro Pro Pro Pro Pro
    50                  55                  60

Pro Pro Pro Pro His Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly
65                  70                  75                  80

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

Ser Gly Gln Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe
            100                 105                 110

Gly Pro Pro Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe
        115                 120                 125

Pro Asn Ala Pro Tyr Leu Pro Ser Cys Leu Glu Ser Gln Pro Ala Ile
    130                 135                 140

Arg Asn Gln Gly Tyr Ser Thr Val Thr Phe Asp Gly Thr Pro Ser Tyr
145                 150                 155                 160

Gly His Thr Pro Ser His His Ala Ala Gln Phe Pro Asn His Ser Phe
                165                 170                 175
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Lys His Glu Asp Pro Met Gly Gln Gln Gly Ser Leu Gly Glu Gln Gln
180 185 190

Tyr Ser Val Pro Pro Pro Val Tyr Gly Cys His Thr Pro Thr Asp Ser
195 200 205

Cys Thr Gly Ser Gln Ala Leu Leu Leu Arg Thr Pro Tyr Ser Ser Asp
210 215 220

Asn Leu Tyr Gln Met Thr Ser Gln Leu Glu Cys Met Thr Trp Asn Gln
225 230 235 240

Met Asn Leu Gly Ala Thr Leu Lys Gly Val Ala Ala Gly Ser Ser Ser
245 250 255

Ser Val Lys Trp Thr Glu Gly Gln Ser Asn His Ser Thr Gly Tyr Glu
260 265 270

Ser Asp Asn His Thr Thr Pro Ile Leu Cys Gly Ala Gln Tyr Arg Ile
275 280 285

His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg Arg Val Pro
290 295 300

Gly Val Ala Pro Thr Leu Val Arg Ser Ala Ser Glu Thr Ser Glu Lys
305 310 315 320

Arg Pro Phe Met Cys Ala Tyr Pro Gly Cys Asn Lys Arg Tyr Phe Lys
325 330 335

Leu Ser His Leu Gln Met His Ser Arg Lys His Thr Gly Glu Lys Pro
340 345 350

Tyr Gln Cys Asp Phe Lys Asp Cys Glu Arg Arg Phe Ser Arg Ser Asp
355 360 365

Gln Leu Lys Arg His Gln Arg Arg His Thr Gly Val Lys Pro Phe Gln
370 375 380

Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr
385 390 395 400

His Thr Arg Thr His Thr Gly Lys Thr Ser Glu Lys Pro Phe Ser Cys
405 410 415

Arg Trp Pro Ser Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val
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Leu

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1 5

<210> 3
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1 5

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<211> 9
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1 5

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1 5

<210> 7
<211> 9
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<400> 7

Arg Val Pro Gly Val Ala Pro Thr Leu
1 5

<210> 8
<211> 16
<212> PRT
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<220>
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<400> 8

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<210> 9
<211> 32
<212> PRT
<213> Artificial

<220>
<223> peptide

<400> 9

Cys His Thr Pro Thr Asp Ser Cys Thr Gly Ser Gln Ala Leu Leu Leu
1 5 10 15

Arg Thr Pro Tyr Ser Ser Asp Asn Leu Tyr Gln Met Thr Ser Gln Leu
20 25 30

<210> 10
<211> 22
<212> PRT
<213> Artificial

<220>
<223> peptide

<400> 10

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1 5 10 15

Ser Arg Lys His Thr Gly
20

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<213> Artificial

<220>
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1 5 10 15

Leu Glu Ser

<210> 12
<211> 19
<212> PRT
<213> Artificial

<220>
<223> peptide

<400> 12

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1 5 10 15

Leu Glu Ser

<210> 13
<211> 10
<212> PRT
<213> Artificial

<220>
<223> peptide

<400> 13

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1 5 10

<210> 14
<211> 10
<212> PRT
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<400> 14

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1 5 10

<210> 15
<211> 10
<212> PRT
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<400> 15

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1 5 10

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1 5 10

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1 5 10

<210> 18
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<400> 18

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1 5 10

<210> 19
<211> 16
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<213> Artificial

<220>
<223> peptide

<400> 19

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Asn Leu

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Tyr Leu

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Gly Ser Leu

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Ser Leu