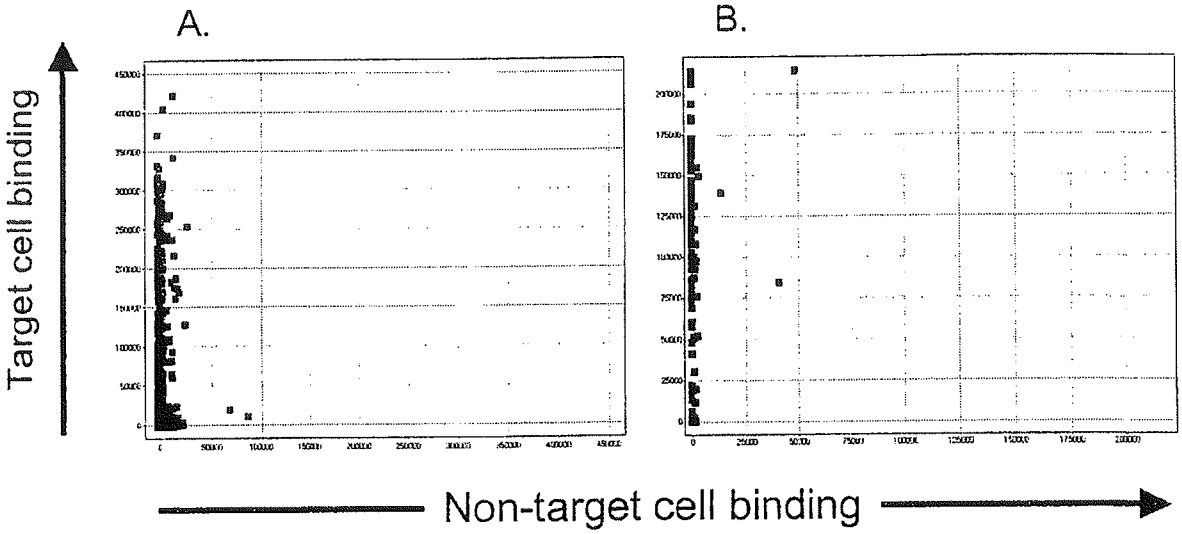

A.
B.
Target cell binding
Non-target cell binding

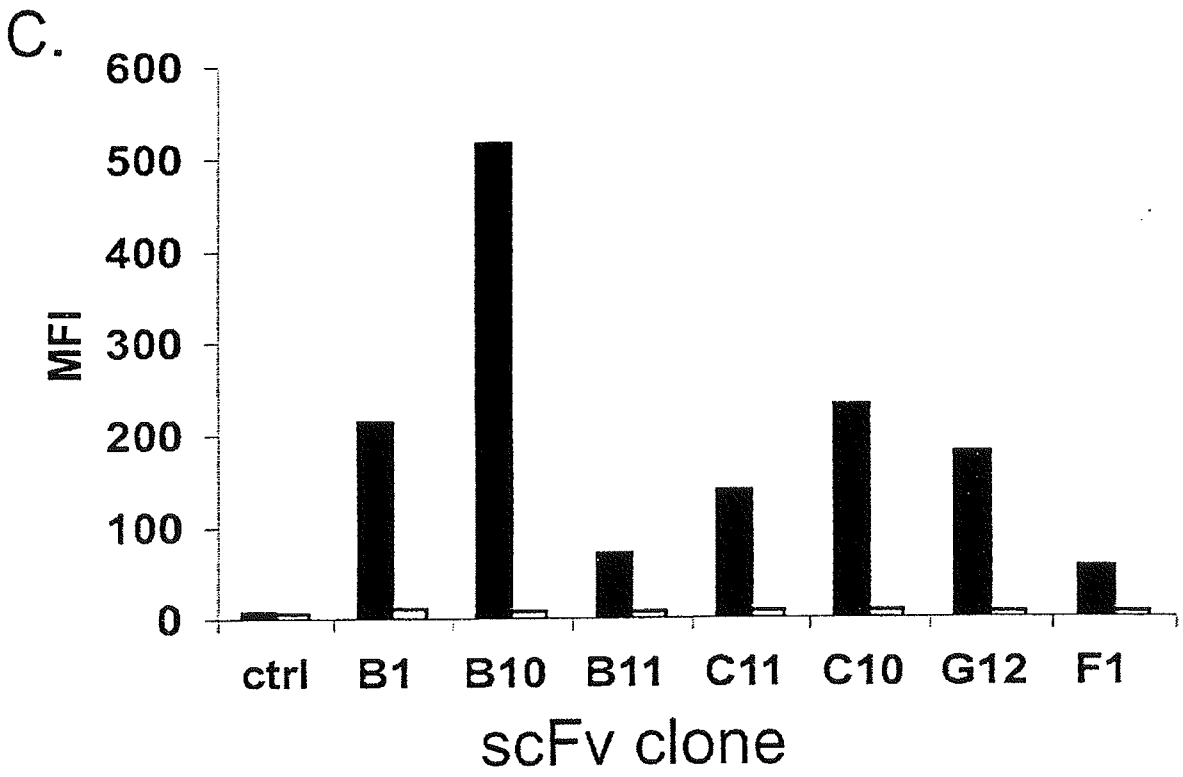

C.
MFI
600
500
400
300
200
100
0
ctrl
B1
B10
B11
C11
C10
G12
F1
scFv clone

Figure 1

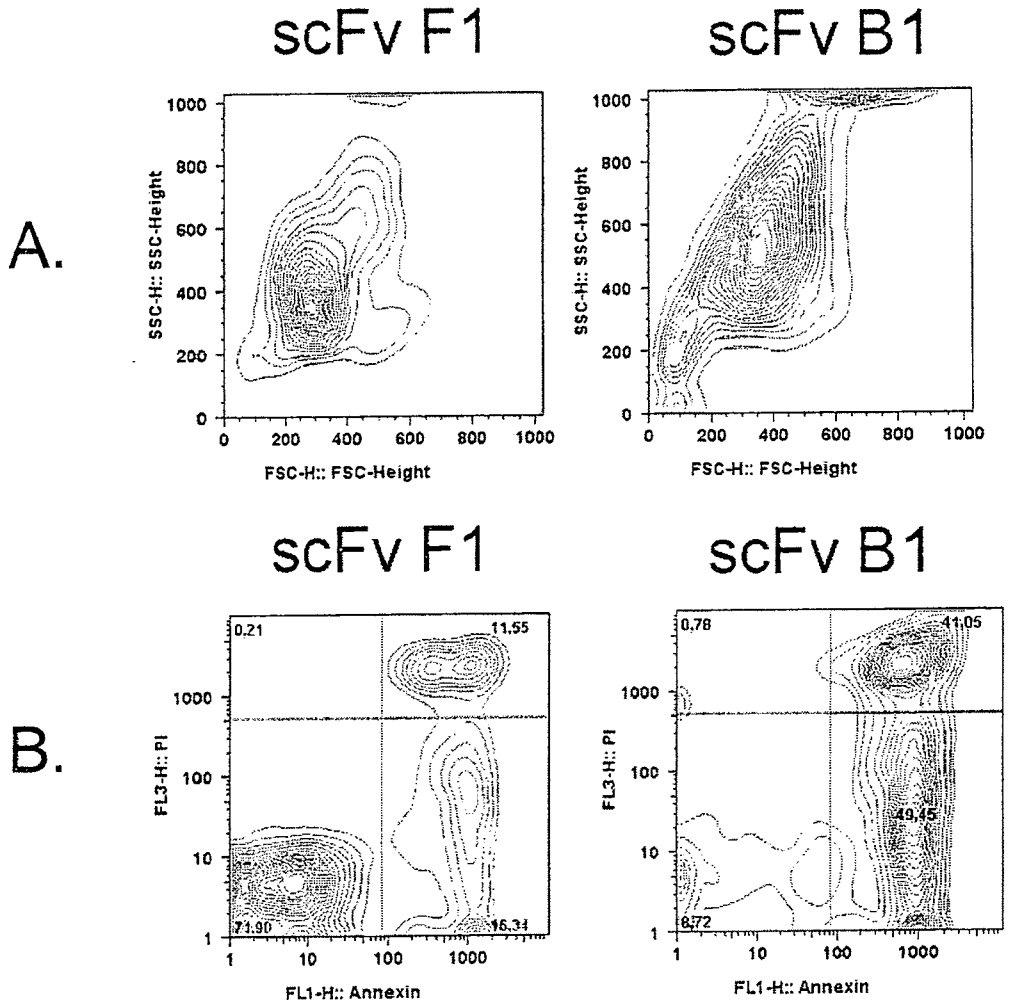
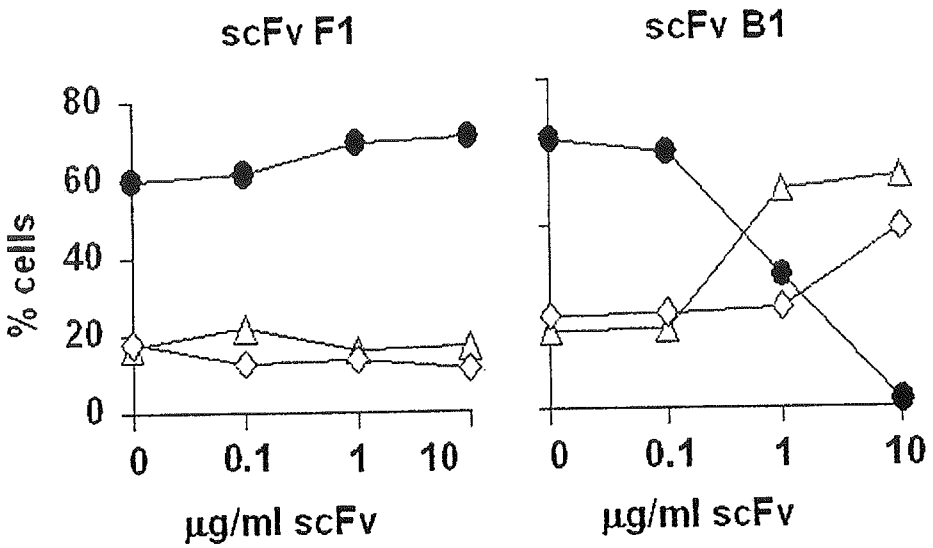

A.
scFv F1
scFv B1
SSC-H:: SSC-Height
FSC-H:: FSC-Height
0
200
400
600
800
1000
B.
scFv F1
scFv B1
FL3-H:: PI
FL1-H:: Annexin
1
10
100
1000
0,21
11,55
71,90
16,34
0,78
41,05
49,45
8,72

Figure 2

C.



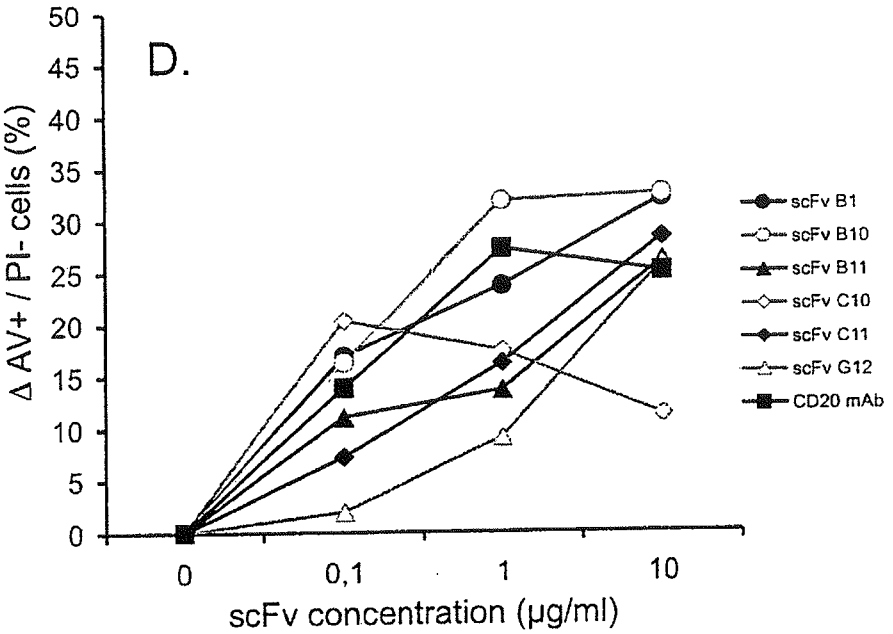


Figure 2 (con't)

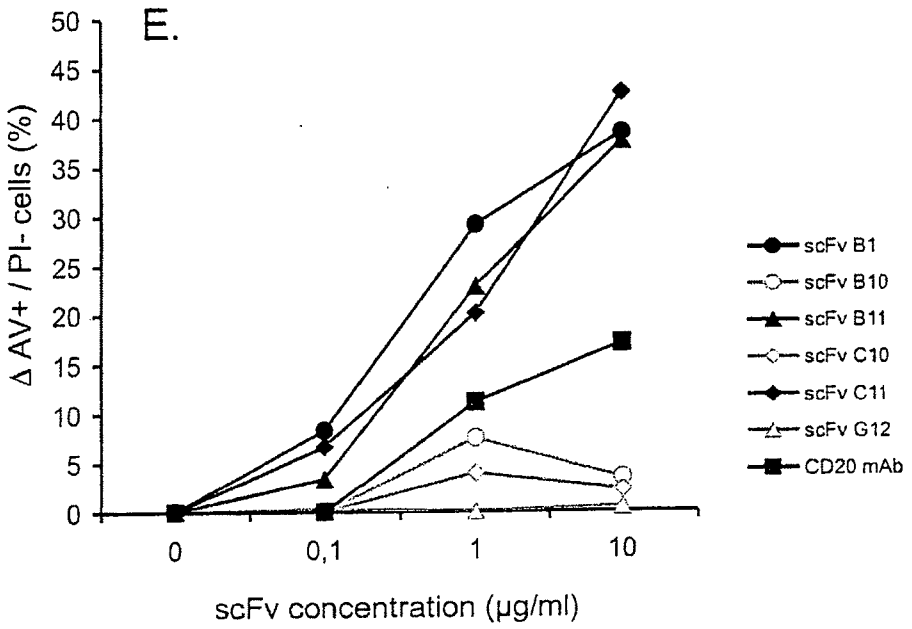
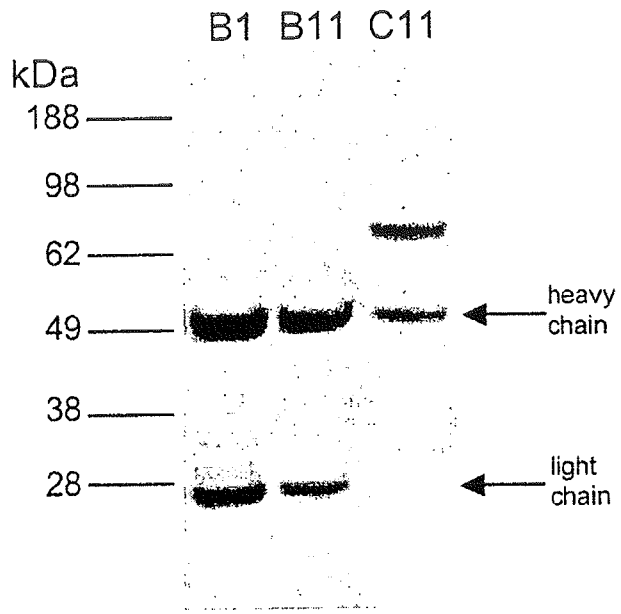


Figure 2 (con't)

A.


B1 B11 C11
kDa
188
98
62
49
38
28
heavy chain
light chain

B.

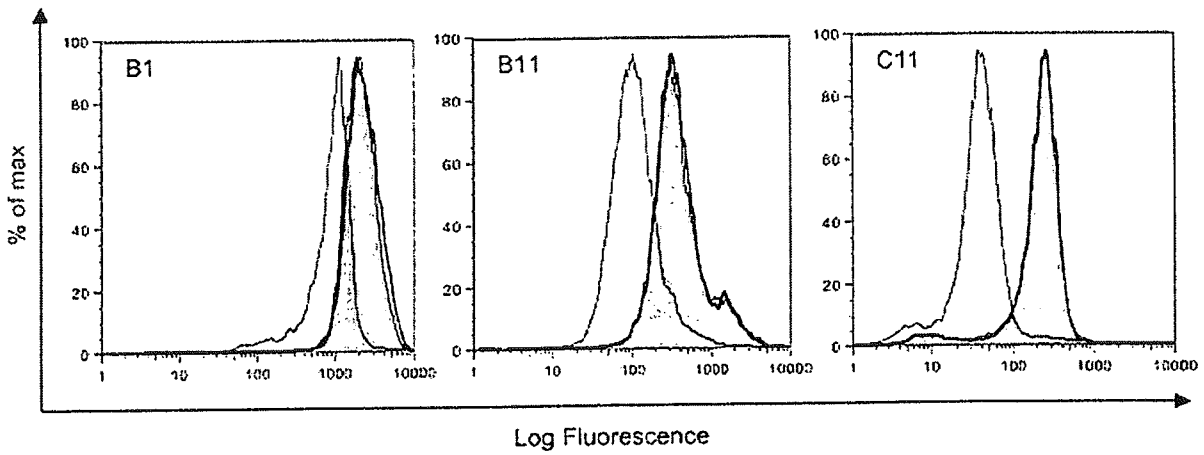

B1
B11
C11
% of max
Log Fluorescence

Figure 3

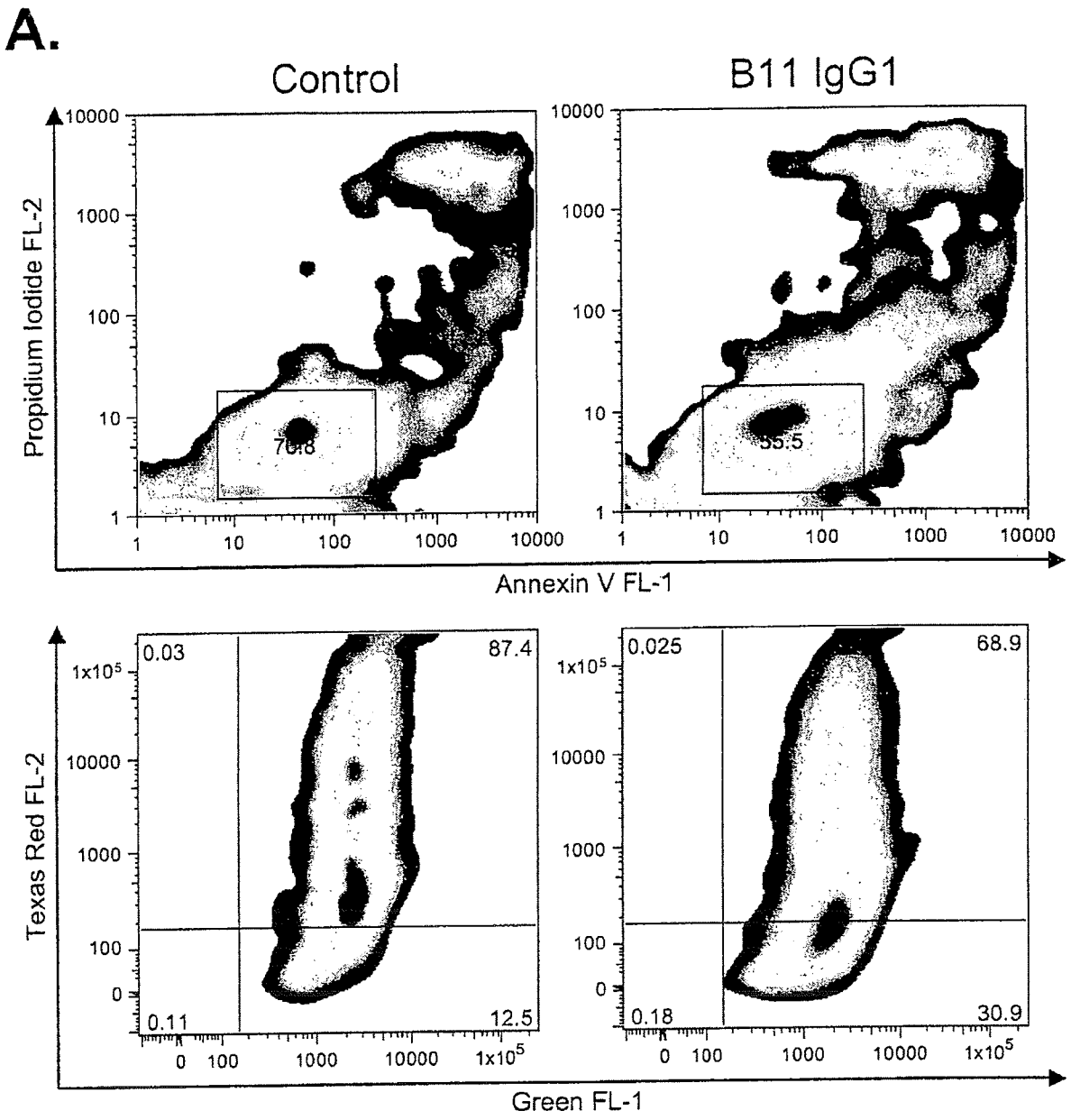

A.
Control
B11 IgG1
Propidium Iodide FL-2
Annexin V FL-1
Texas Red FL-2
Green FL-1
0.03
87.4
0.11
12.5
0.025
68.9
0.18
30.9

Figure 4

B.

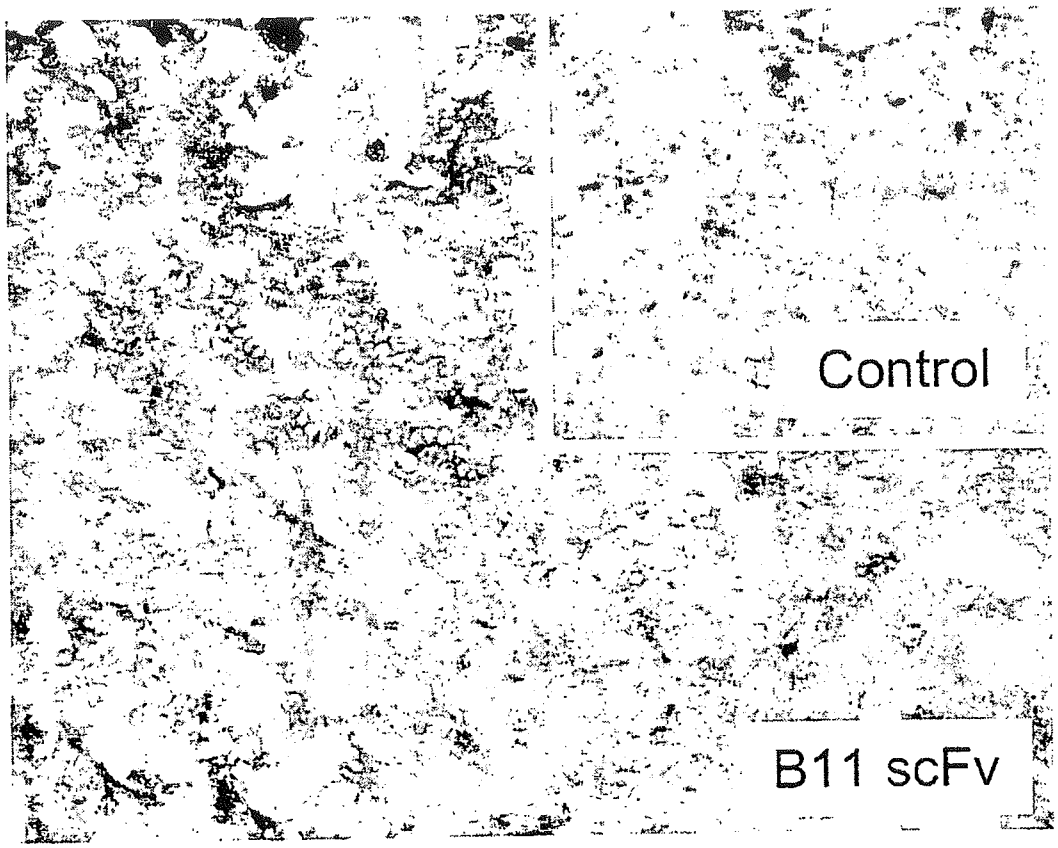


Figure 4 (con't)

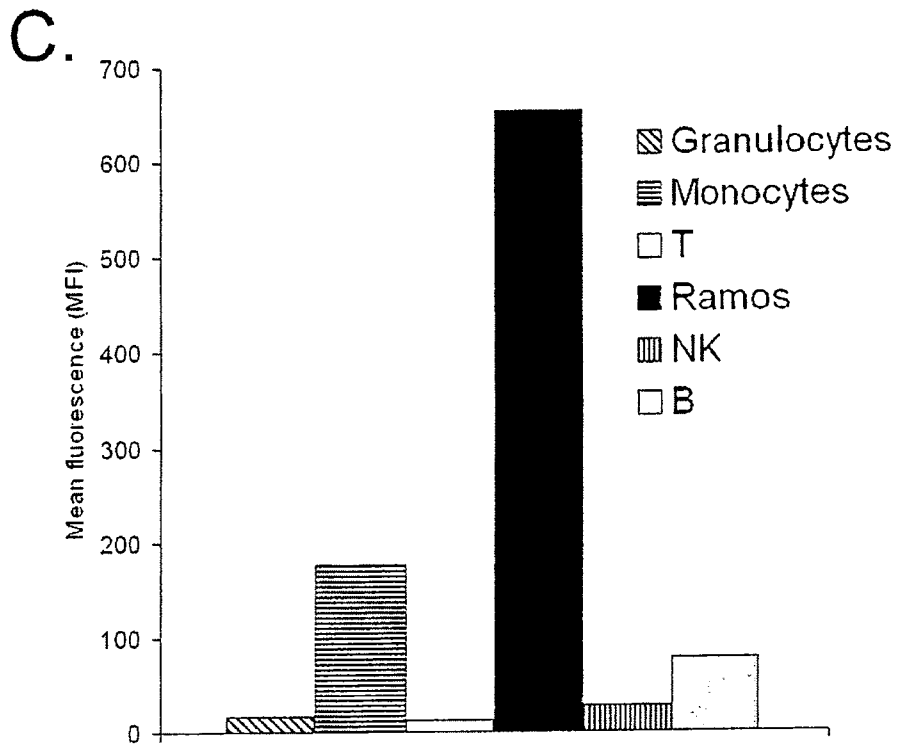


Figure 4 (con't)

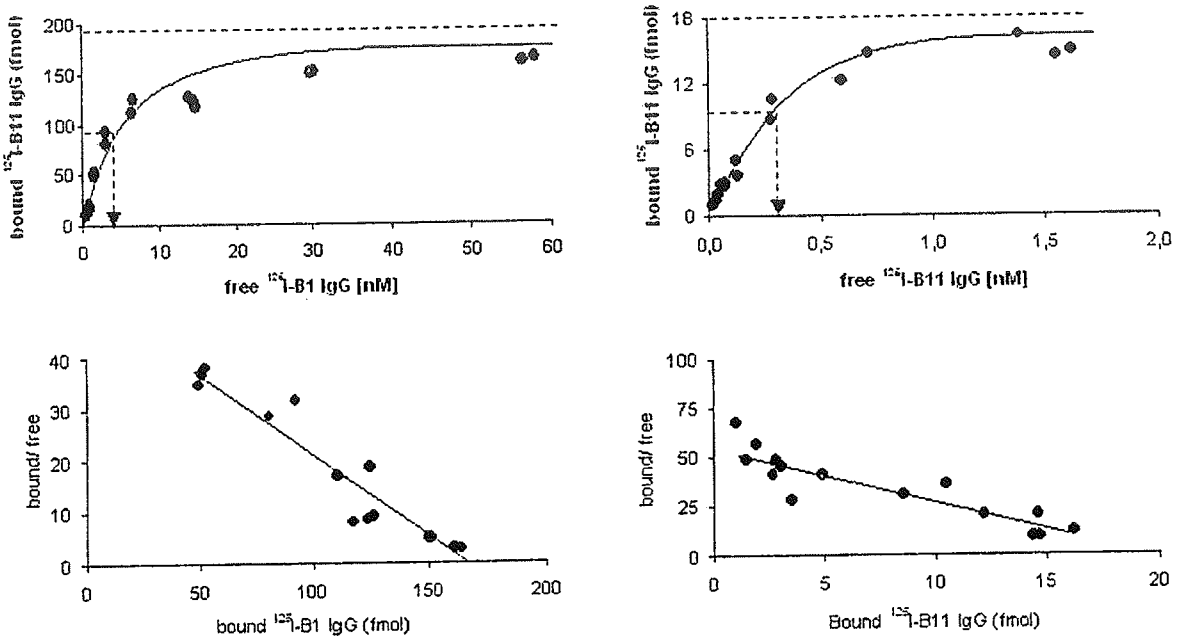

bound ^{125}I-B11 IgG (fmol)
free ^{125}I-B1 IgG [nM]
bound/ free
bound ^{125}I-B1 IgG (fmol)
bound ^{125}I-B11 IgG (fmol)
free ^{125}I-B11 IgG [nM]
bound/ free
Bound ^{125}I-B11 IgG (fmol)

Figure 5

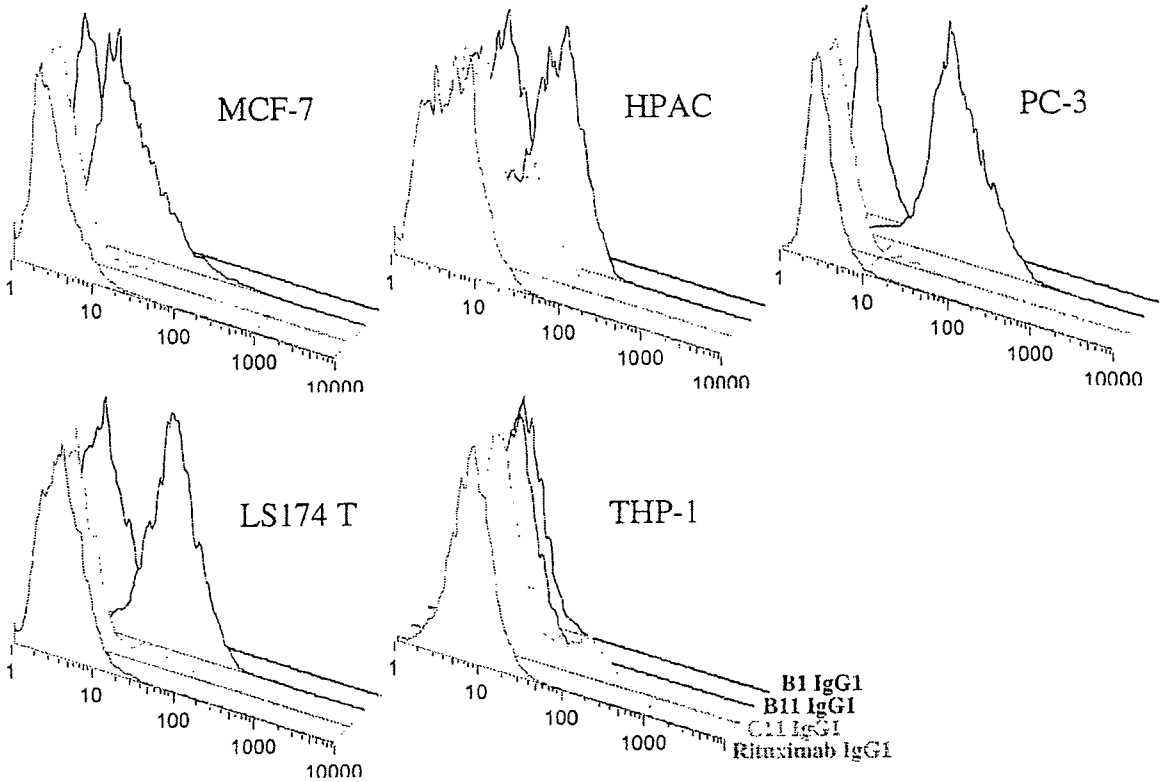
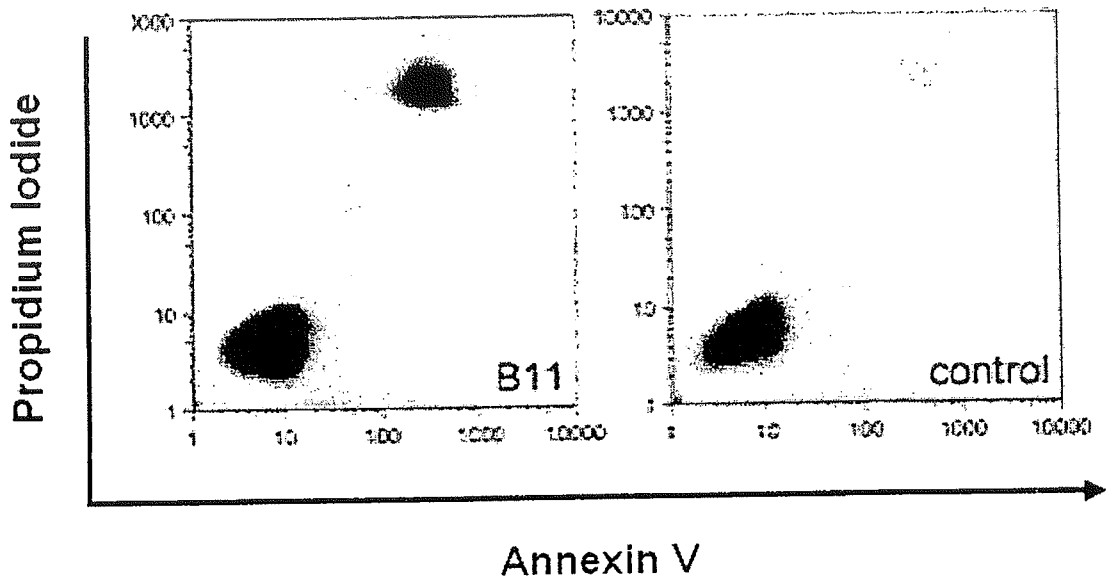

MCF-7
HPAC
PC-3
LS174 T
THP-1
1
10
100
1000
10000
B1 IgG1
B11 IgG1
C21 IgG1
Rituximab IgG1

Figure 6

A.


Propidium Iodide
B11
control
Annexin V

B.

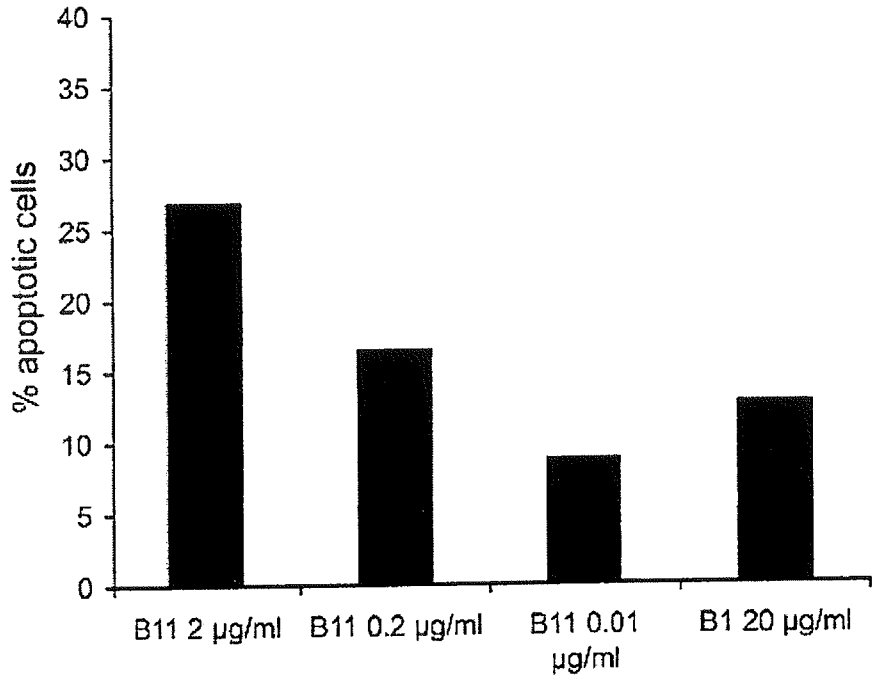
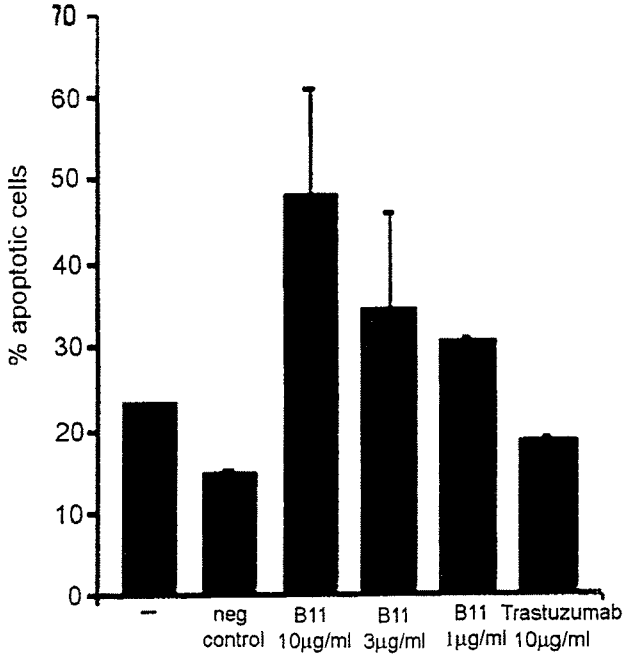

% apoptotic cells
40
35
30
25
20
15
10
5
0
B11 2 µg/ml
B11 0.2 µg/ml
B11 0.01 µg/ml
B1 20 µg/ml

Figure 7

C.



D.

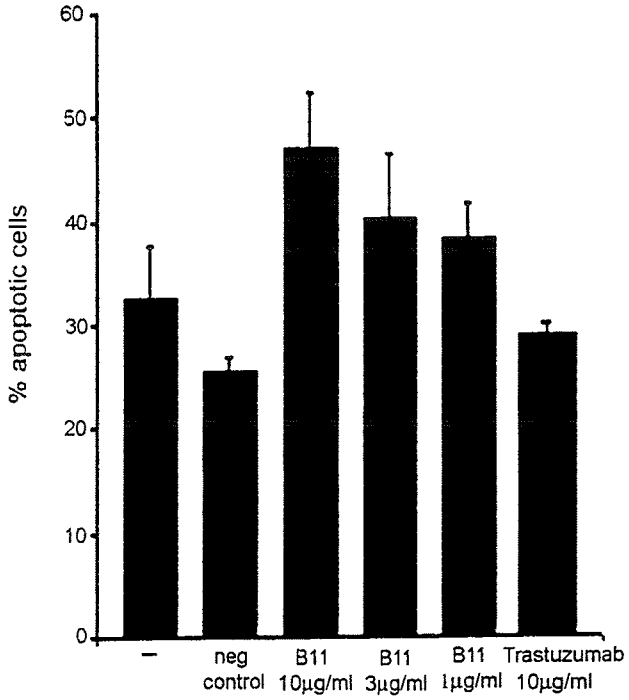


Figure 7 (con't)

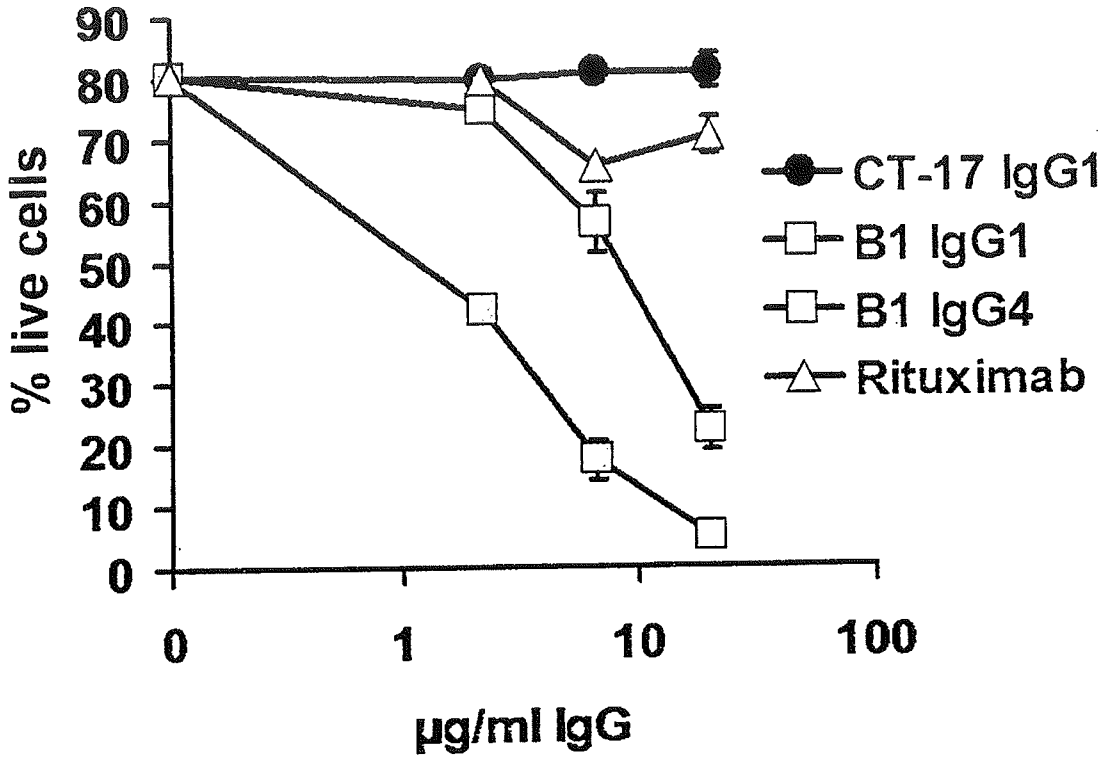

90
80
70
60
50
40
30
20
10
0
% live cells
0
1
10
100
µg/ml IgG
CT-17 IgG1
B1 IgG1
B1 IgG4
Rituximab

Figure 8

B1-VH

Nucleotide sequence:

GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGTCCCT
GAGACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAGCTATGCCATGAGCT
GGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTCAGCTATTAGTGGT
AGTGGTGGTAGCACATACTACGCAGACTCCGTGAAGGGCCGGTTCACCATCTC
CAGAGACAATTCCAAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCG
AGGACACTGCCGTGTATTACTGTGCGAGAGATGGGCTACTACCCCTTGACTAC
TGGGGCCAGGGTACACTGGTCACCGTGAGCTCA

Amino acid sequence:

EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSAISG
SGGSTYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCARDGLLPLDY
WGQGTLVTVSS

Figure 9

B1-VL

Nucleotide sequence:

CAGTCTGTGCTGACTCAGCCACCCTCAGCGTCTGGGACCCCCGGGCAGAGGGT
CACCATCTCTTGTTCTGGAGGCAGCTCCAACATCGGAGGGAATGCTGTAAATT
GGTATCAGCAGCTCCCAGGAACGGCCCCCAAACTCCTCATCTATGAAAATAAT
AAGCGACCCTCAGGGGTCCCTGACCGATTCTCTGGCTCCAAGTCTGGCACCTC
AGCCTCCCTGGCCATCAGTGGGCTCCGGTCCGAGGATGAGGCTGATTATTACT
GCAGCTCATATGCGGTCAGCAACAATTTCGAGGTGCTATTCGGCGGAGGAACC
AAGCTGACGGTCCTAGGT

Amino acid sequence:

QSVLTQPPSASGTPGQRVTISCSGGSSNIGGNAVNWYQQLPGTAPKLLIYENN
KRPSGVPDRFSGSKSGTSASLAISGLRSEDEADYYCSSYAVSNNFEVLFGGGT
KLTVLG

Figure 9 (con't)

B11-VH

Nucleotide sequence:

GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGTCCCT
GAGACTCTCCTGTGCAGCCTCTGGATTCACCTTCAGTAACGCCTGGATGAGCT
GGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTGGCATTTATATGGTAT
GATGGAAGTAATAAATACTATGCAGACTCCGTGAAGGGCCGATTCACCATCTC
CAGAGACAATTCCAAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCG
AGGACACTGCCGTGTATTACTGTGCGAGATACAGTGGCTGGTACTTTGACTAC
TGGGGCCAAGGTACACTGGTCACCGTGAGCTCA

Amino acid sequence:

EVQLLESGGGLVQPGGSLRLSCAASGFTFSNAWMSWVRQAPGKGLEWVAFIWY
DGSNKYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCARYSGWYFDY
WGQGTLVTVSS

Figure 10

B11-VL

Nucleotide sequence:

CAGTCTGTGCTGACTCAGCCACCCTCAGCGTCTGGGACCCCCGGGCAGAGGGT
CACCATCTCCTGCACTGGGAGCAGCTCCAACATCGGGGCAGGTTATGATGTAC
ACTGGTATCAGCAGCTCCCAGGAACGGCCCCCAAACTCCTCATCTATGATAAC
AACAATCGGCCCTCAGGGGTCCCTGACCGATTCTCTGGCTCCAAGTCTGGCAC
CTCAGCCTCCCTGGCCATCAGTGGGCTCCGGTCCGAGGATGAGGCTGATTATT
ACTGCCAGTCCTATGACAGCAGCCTCAGTGCTTGGCTGTTCGGCGGAGGAACC
AAGCTGACGGTCCTAGGT

Amino acid sequence:

QSVLTQPPSASGTPGQRVTISCTGSSSNIGAGYDVHWYQQLPGTAPKLLIYDN
NNRPSGVPDRFSGSKSGTSASLAISGLRSEDEADYYCQSYDSSLSAWLFGGGT
KLTVLG

Figure 10 (con't)

C11-VH

Nucleotide sequence:

GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGTCCCT
GAGACTCTCCTGTGCAGCCTCTGGATTCACCTTCGGCAGTTATGAAATGAACT
GGGTCCGCCAGGCTCCAGGGAAGGGGCTGGAGTGGGTCTCAGTTATTTATAGC
GGTGGTAGCACATACTACGCAGACTCCGTGGAAGGCCGATTCACCATCTCCAG
AGACAATTCCAAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGG
ACACTGCCGTGTATTACTGTGCGAGAGATACAAACCCGTACTACTACTACGGT
ATGGACGTCTGGGGCCAAGGTACACTGGTCACCGTGAGCTCA

Amino acid sequence:

EVQLLESGGGLVQPGGSLRLSCAASGFTFGSYEMNWVRQAPGKGLEWVSVIYS
GGSTYYADSVEGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCARDTNPYYYYG
MDVWGQGTLVTVSS

Figure 11

C11-VL

Nucleotide sequence:

CAGTCTGTGCTGACTCAGCCACCCTCAGCGTCTGGGACCCCCGGGCAGAGGGT
CACCATCTCCTGTTCTGGAAGCAGCTCCAACATCGGAAATAATGCTGTAAACT
GGTATCAGCAGCTCCCAGGAACGGCCCCCAAACTCCTCATCTATAGGAATAAT
CAGCGGCCCTCAGGGGTCCCTGACCGATTCTCTGGCTCCAAGTCTGGCACCTC
AGCCTCCCTGGCCATCAGTGGGCTCCGGTCCGAGGATGAGGCTGATTATTACT
GCCAGTCCTATGACAGCAGCCTGAATGGTCAAGTATTCGGCGGAGGAACCAAG
CTGACAGTCCTAGGT

Amino acid sequence:

QSVLTQPPSASGTPGQRVTISCSGSSSNIGNNAVNWYQQLPGTAPKLLIYRNN
QRPSGVPDRFSGSKSGTSASLAISGLRSEDEADYYCQSYDSSLNGQVFGGGTK
LTVLG

Figure 11 (con't)