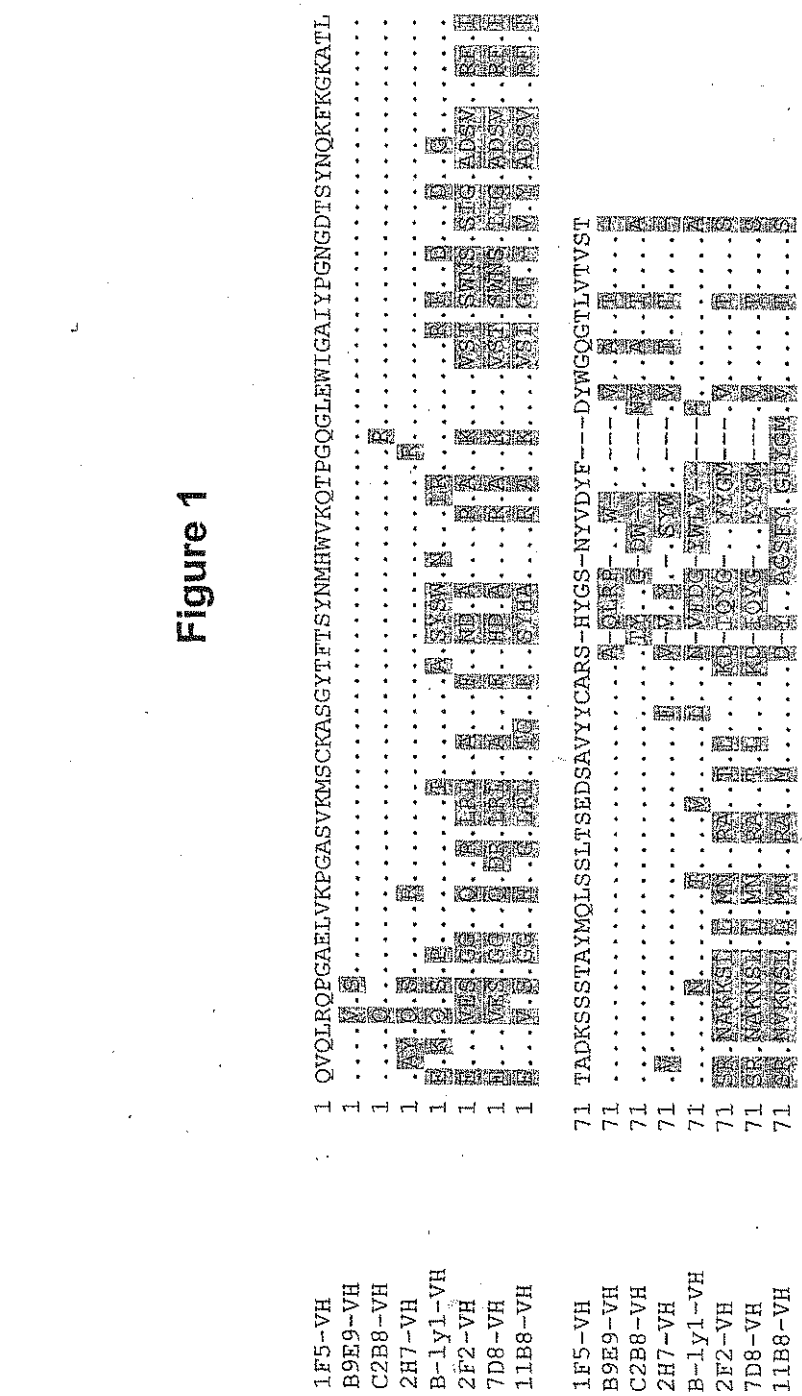
Figure 1



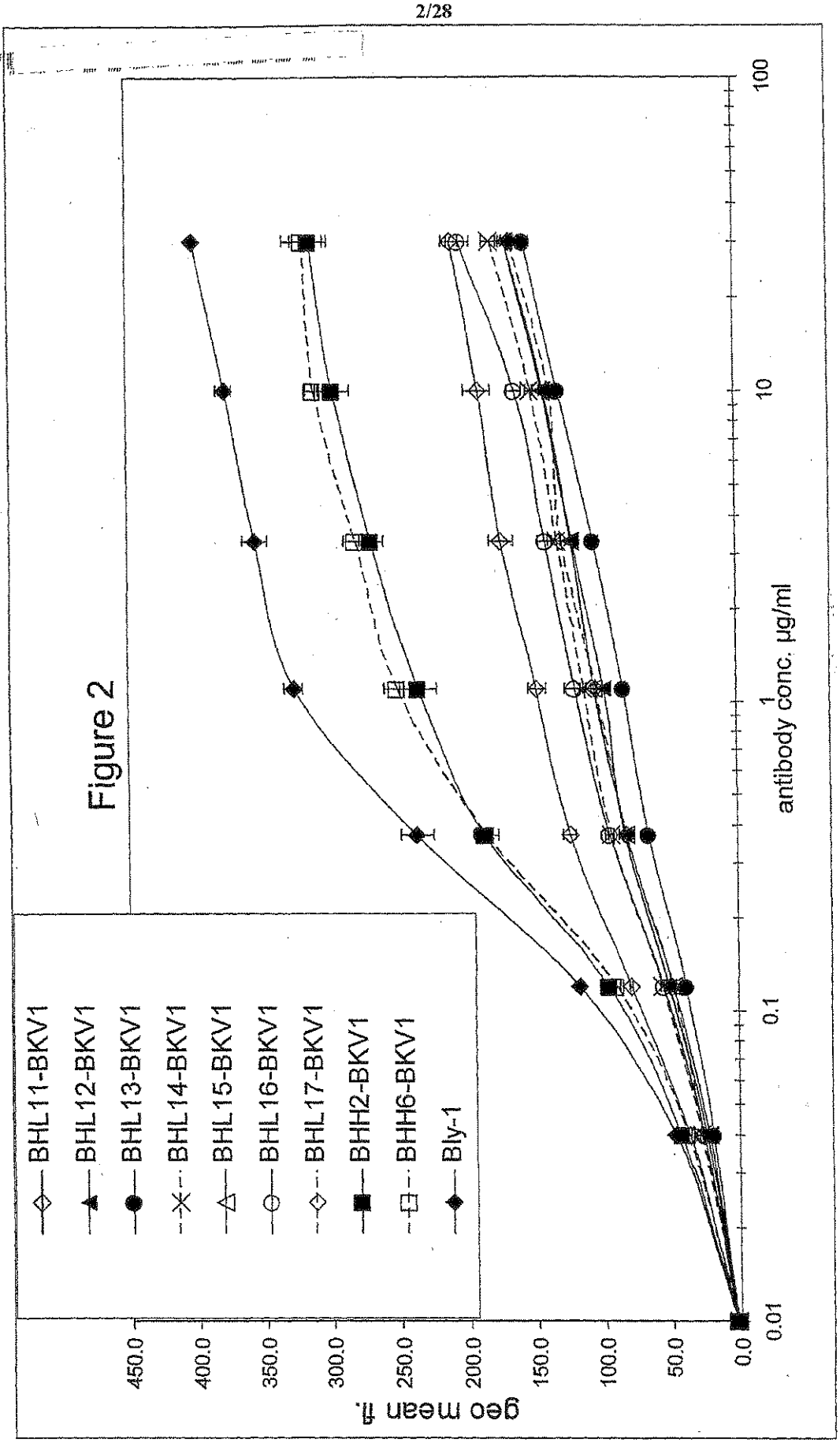

Figure 2
geo mean fl.
450.0
400.0
350.0
300.0
250.0
200.0
150.0
100.0
50.0
0.0
0.01
0.1
1
10
100
antibody conc. µg/ml
BHL11-BKV1
BHL12-BKV1
BHL13-BKV1
BHL14-BKV1
BHL15-BKV1
BHL16-BKV1
BHL17-BKV1
BHH2-BKV1
BHH6-BKV1
Bly-1

Figure 3

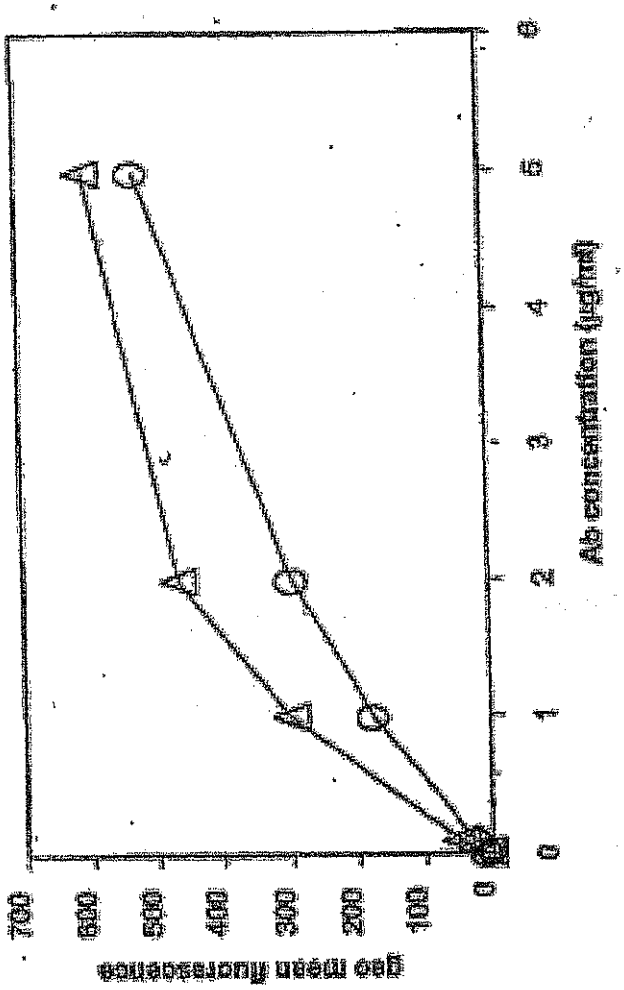

Geo mean fluorescence
700
600
500
400
300
200
100
0
0
1
2
3
4
5
6
Ab concentration (µg/ml)

Figure 4

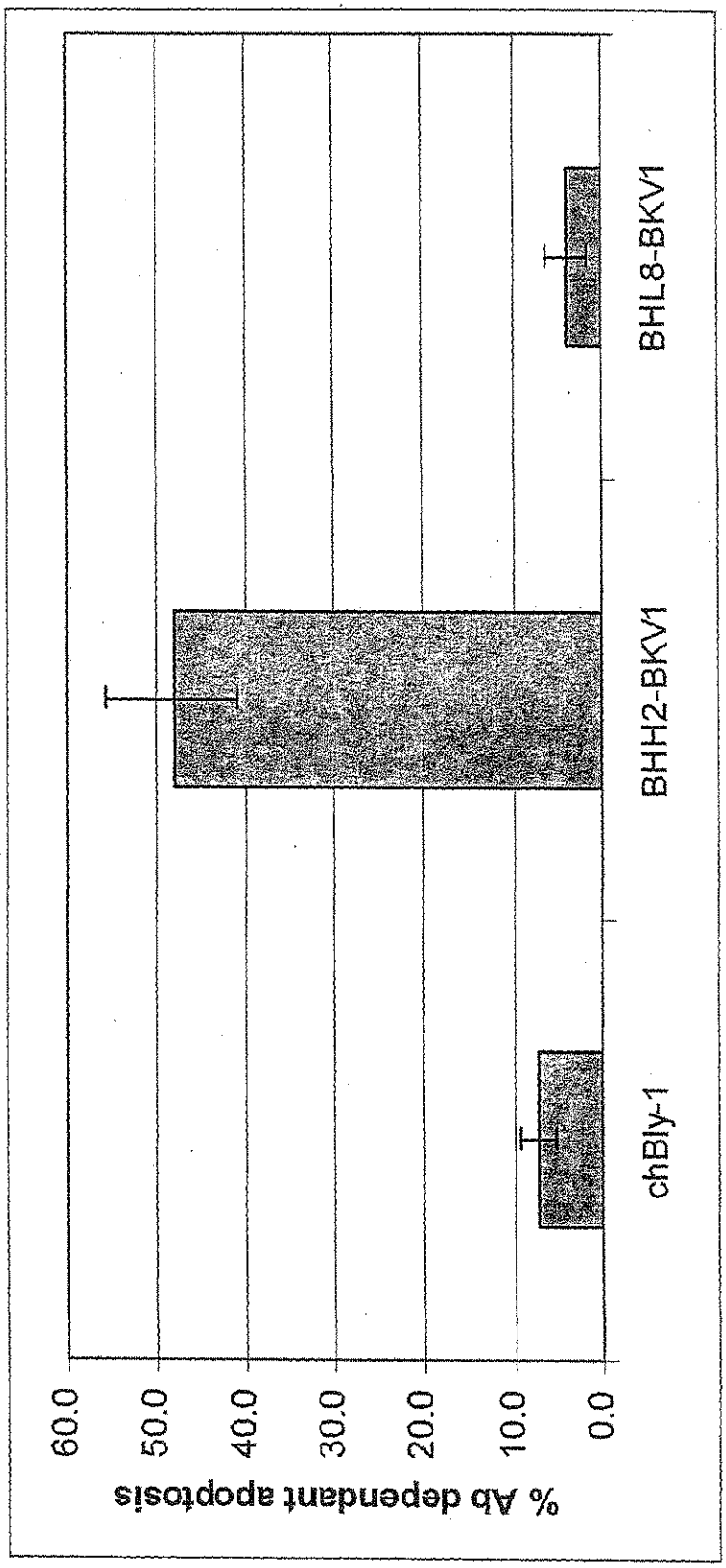

% Ab dependant apoptosis
60.0
50.0
40.0
30.0
20.0
10.0
0.0
chBly-1
BHH2-BKV1
BHL8-BKV1

Figure 5

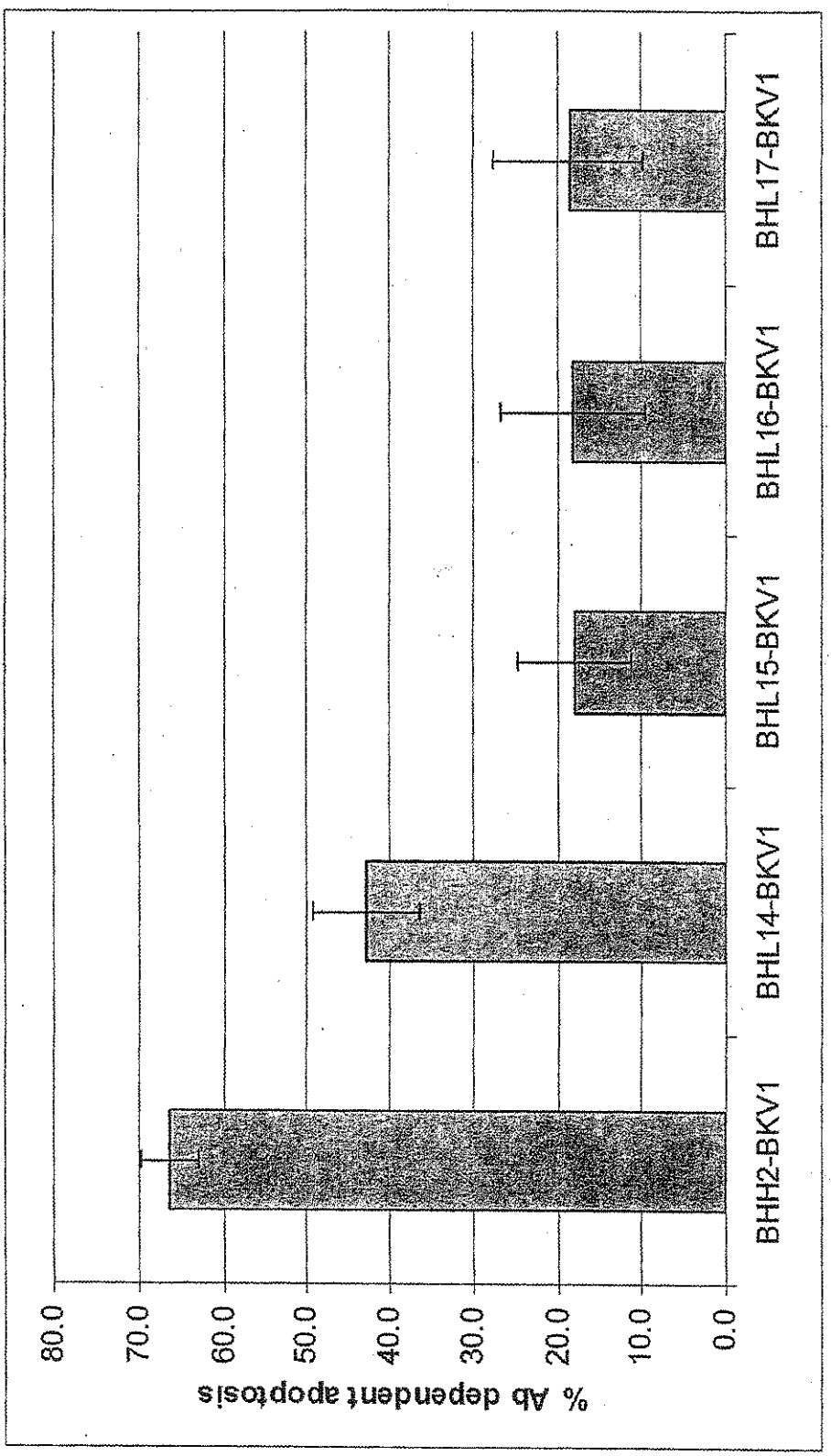

% Ab dependent apoptosis
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
BHH2-BKV1
BHL14-BKV1
BHL15-BKV1
BHL16-BKV1
BHL17-BKV1

Figure 6

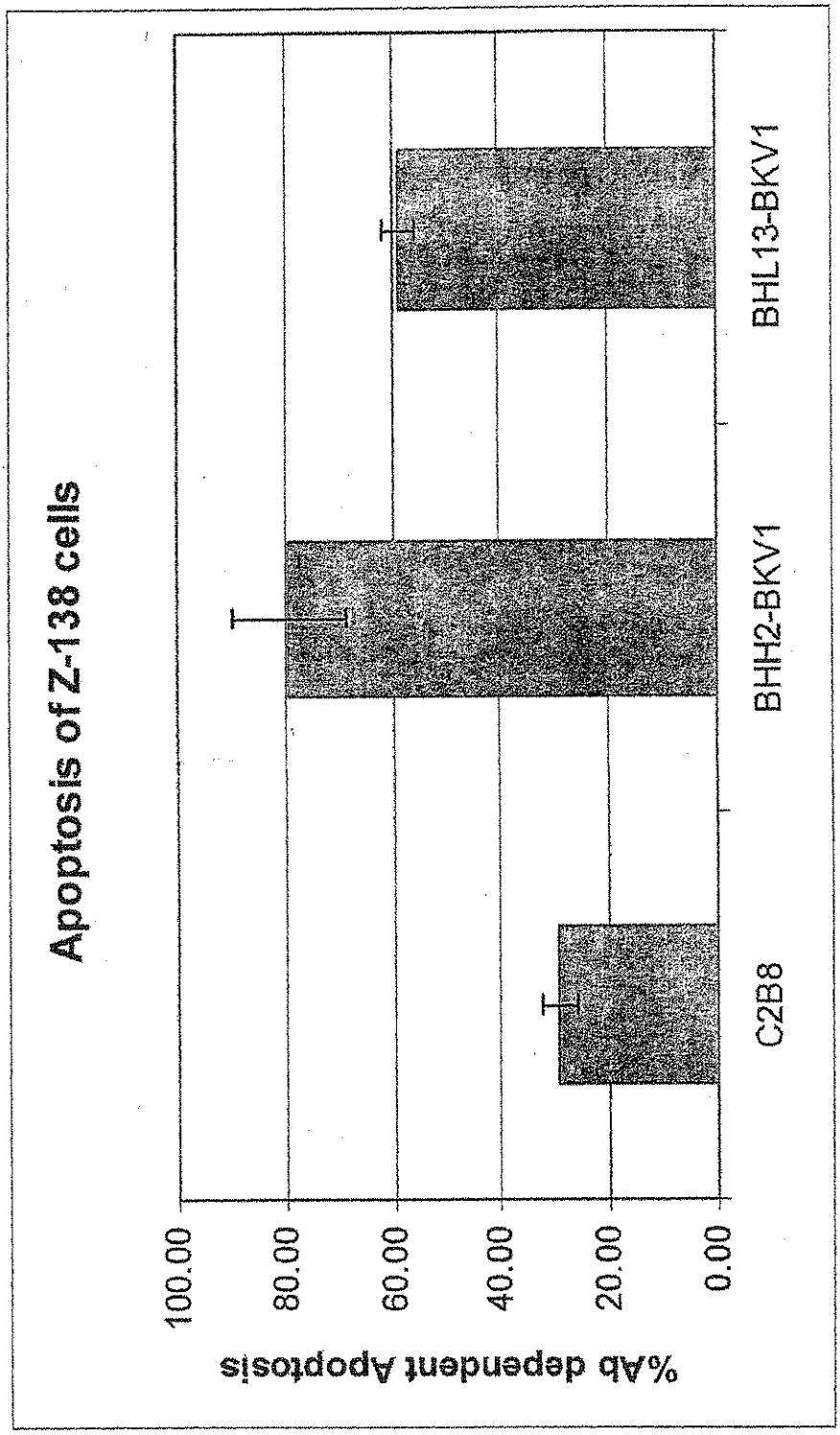

Apoptosis of Z-138 cells
%Ab dependent Apoptosis
100.00
80.00
60.00
40.00
20.00
0.00
C2B8
BHH2-BKV1
BHL13-BKV1

Figure 7

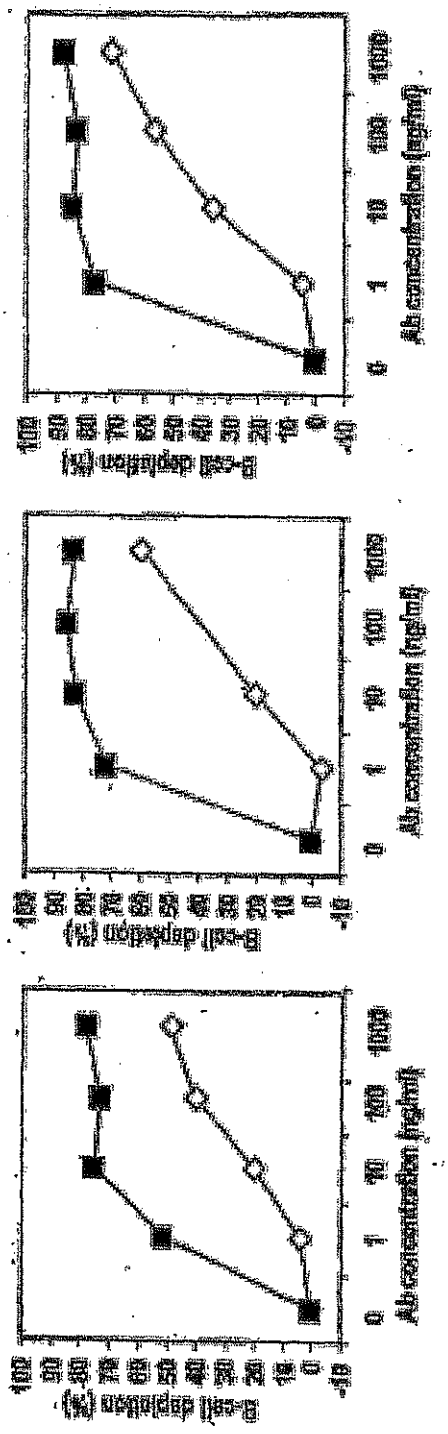


Figure 8A

1.relative percentages

	Bly-1 m1 031024 016	+ EndoH Bly-1 m1 031024 017
1053		
1256		
1282		
1298		3.70%
1339	18.60%	17.90%
1460		4.30%
1486	5.90%	5.50%
1502	5.10%	3.70%
1543	35.00%	39.20%
1622		
1647	4.60%	3.00%
1664	7%	
1680		
1688	11.00%	10.30%
1705	7.20%	7.30%
1810		
1826		
1850	5.90%	5.20%
1972		
2012		
	100%	100%

Figure 8B

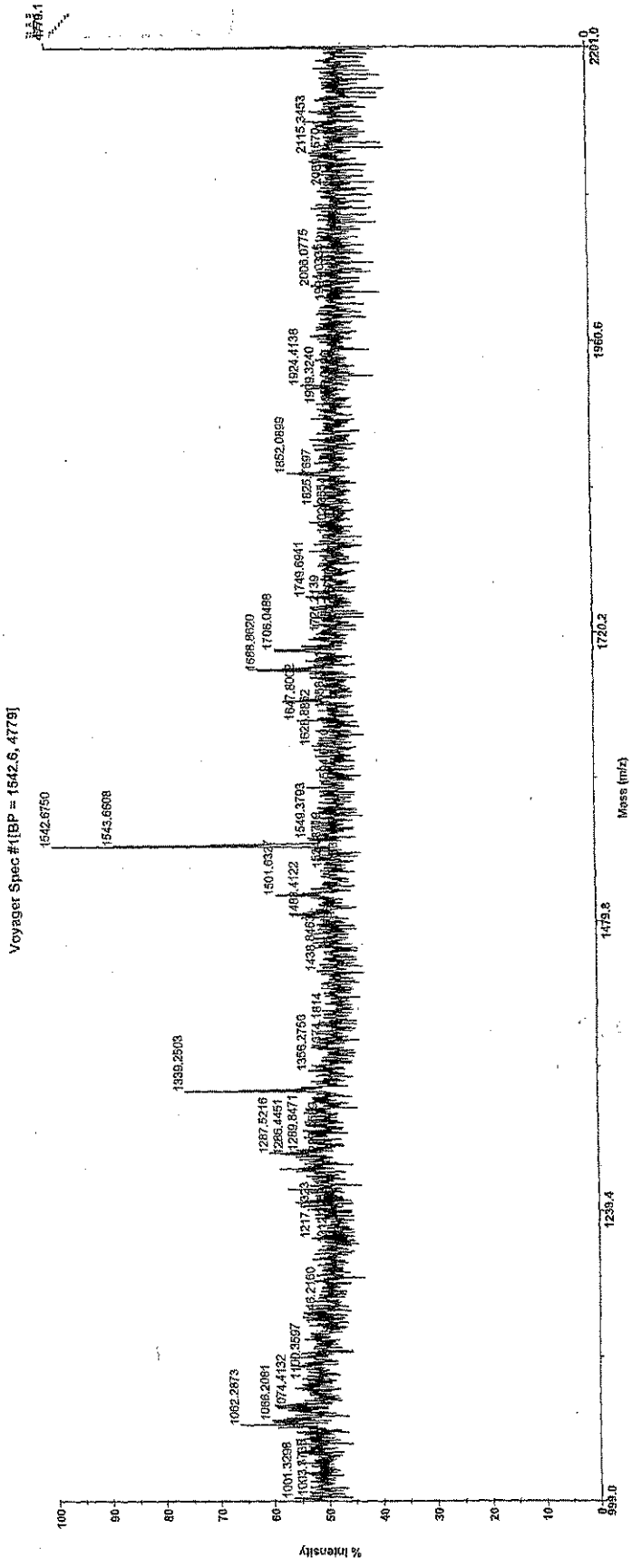
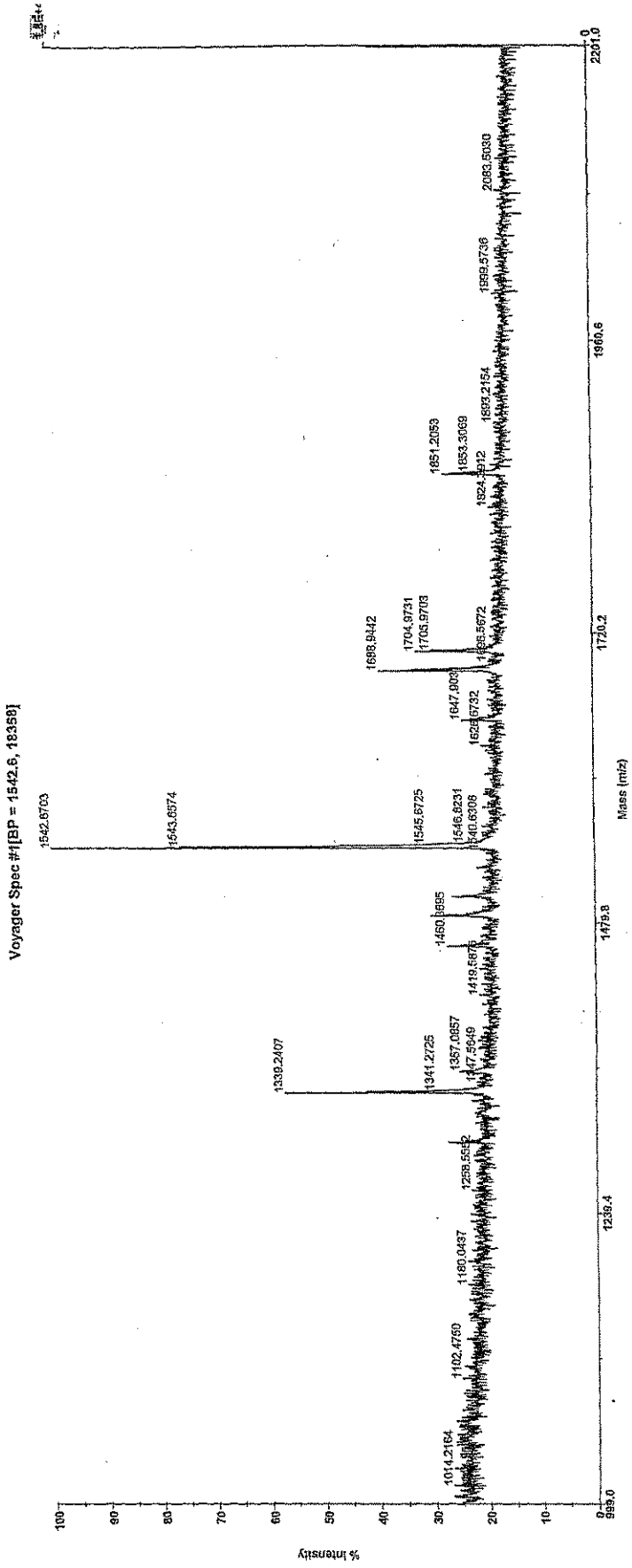

Voyager Spec #1[BP = 1542.6, 4779]
1542.6750
1543.6608
1399.2503
1062.2873
1066.2061
1074.4132
1001.3298
1501.6324
1549.3793
1688.8620
1706.0486
1749.6941
1852.0699
1924.4138
2093.0775
2115.3453
100
90
80
70
60
50
40
30
20
10
0
% Intensity
999.0
1239.4
1479.8
1720.2
1960.6
2201.0
Mass (m/z)

Figure 8C


Voyager Spec #1[BP = 1542.6, 18358]
1542.6703
1543.6574
1545.6725
1546.6231
1540.6306
1688.9442
1704.9731
1705.9703
1647.9003
1339.2407
1341.2725
1460.8695
1419.5678
1357.0957
1347.5649
1259.5552
1180.0497
1102.4760
1014.2164
% Intensity
Mass (m/z)
999.0
1239.4
1479.8
1720.2
1960.6
2201.0

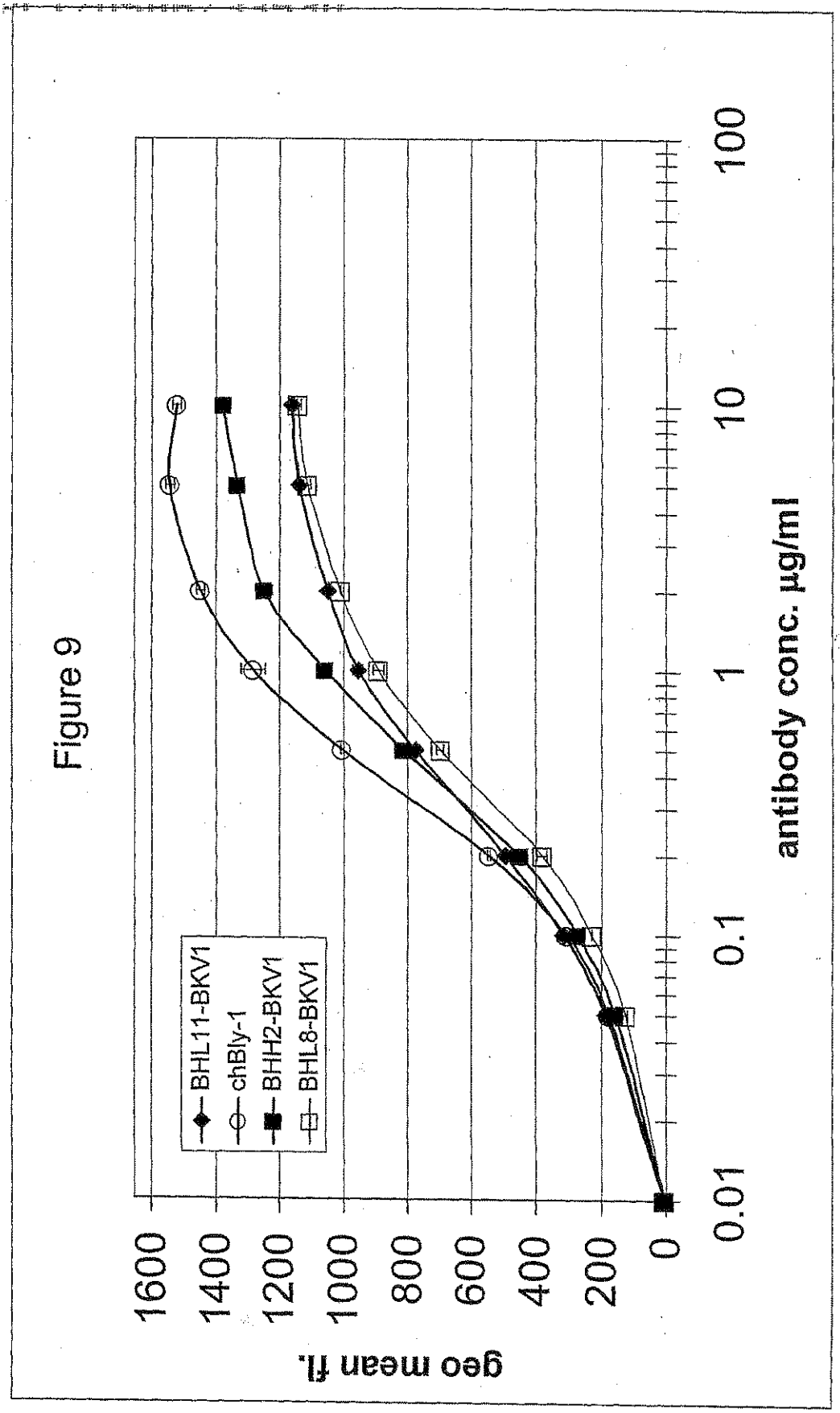

Figure 9
geo mean fl.
1600
1400
1200
1000
800
600
400
200
0
0.01
0.1
1
10
100
antibody conc. µg/ml
BHL11-BKV1
chBly-1
BHH2-BKV1
BHL8-BKV1

Figure 10

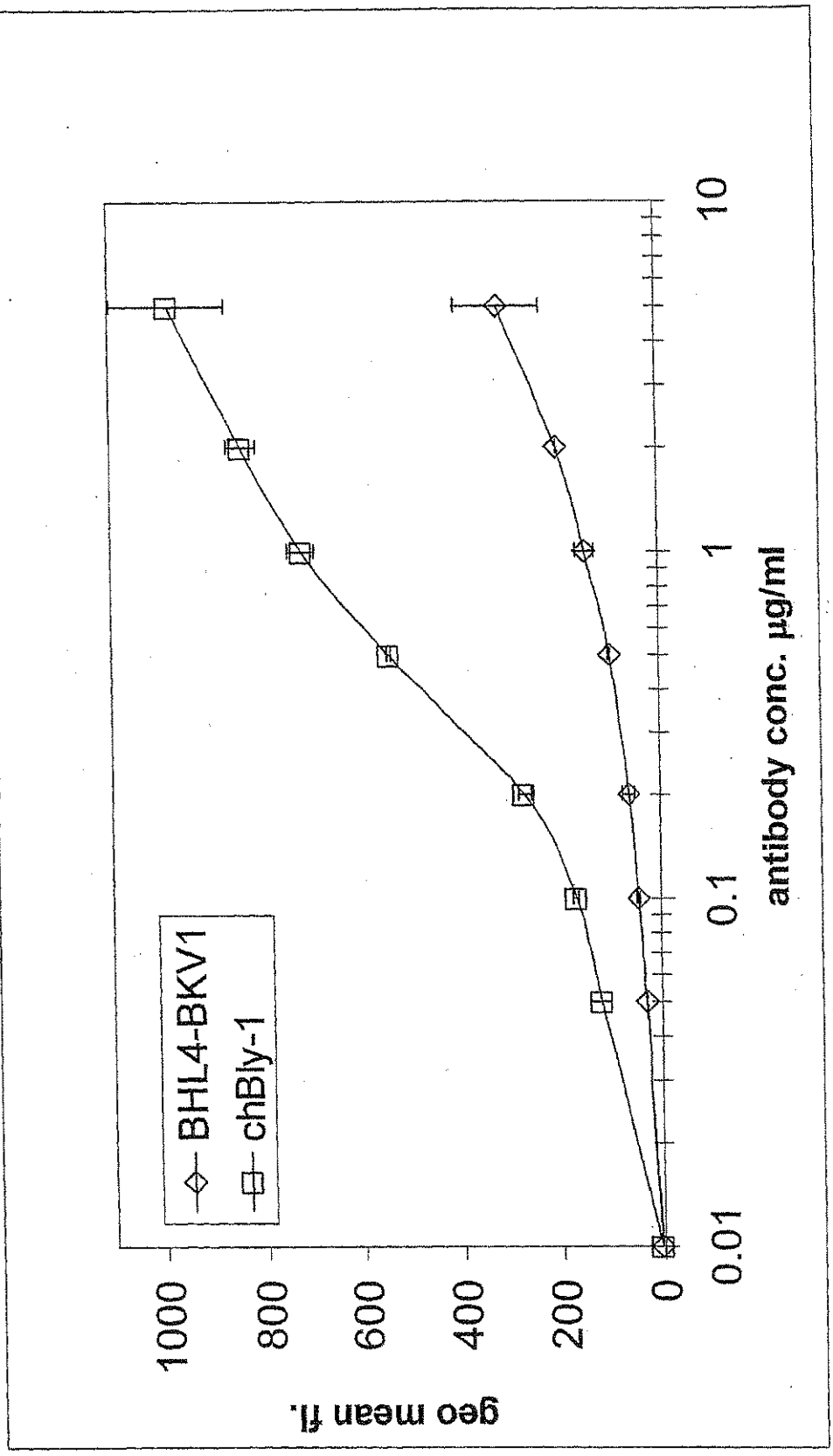

geo mean fl.
1000
800
600
400
200
0
0.01
0.1
1
10
antibody conc. µg/ml
BHL4-BKV1
chBly-1

Figure 11

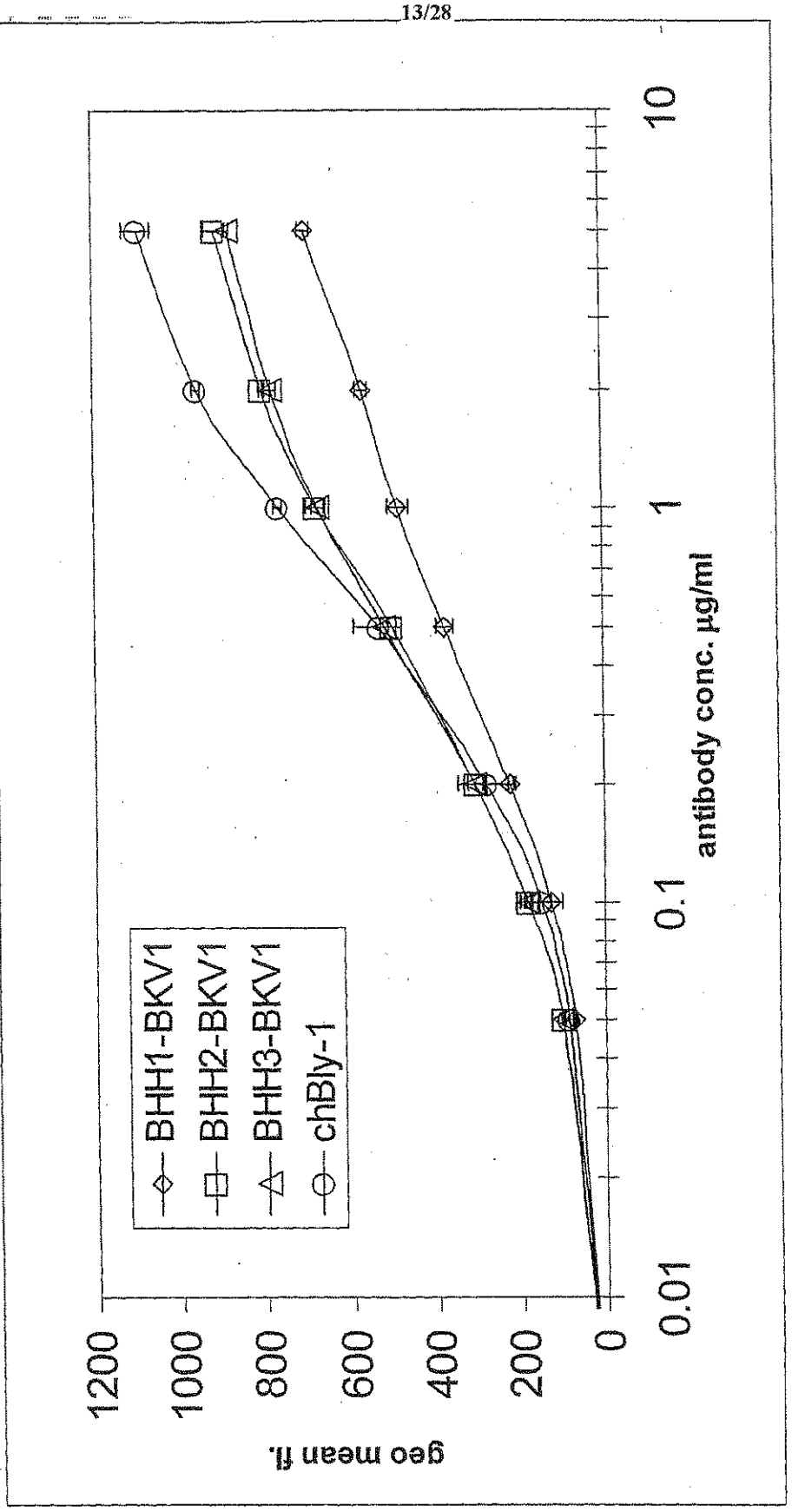

geo mean fl.
1200
1000
800
600
400
200
0
0.01
0.1
1
10
antibody conc. µg/ml
BHH1-BKV1
BHH2-BKV1
BHH3-BKV1
chBly-1

Figure 12

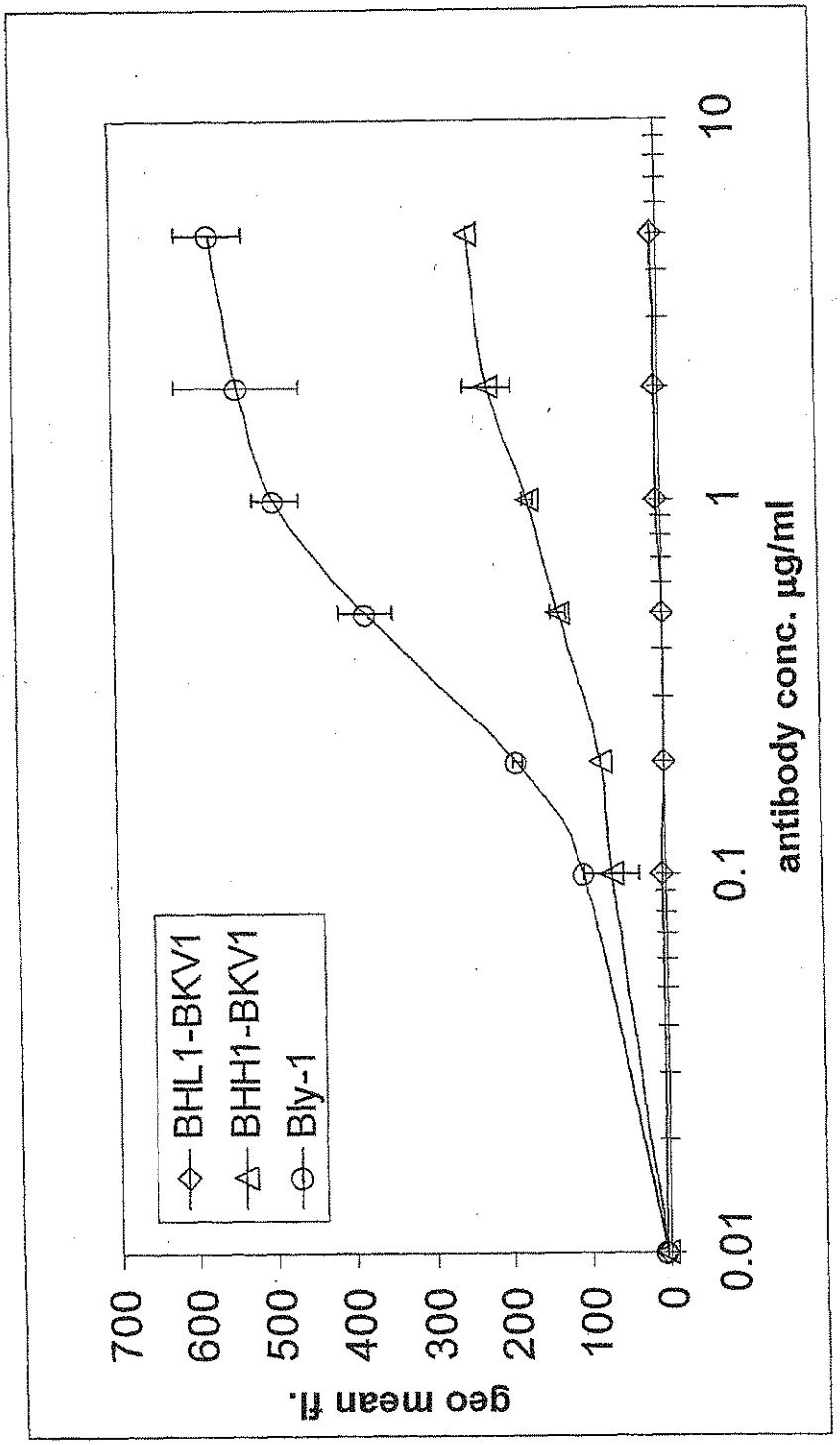

geo mean fl.
700
600
500
400
300
200
100
0
0.01
0.1
1
10
antibody conc. µg/ml
BHL1-BKV1
BHH1-BKV1
Bly-1

Figure 13

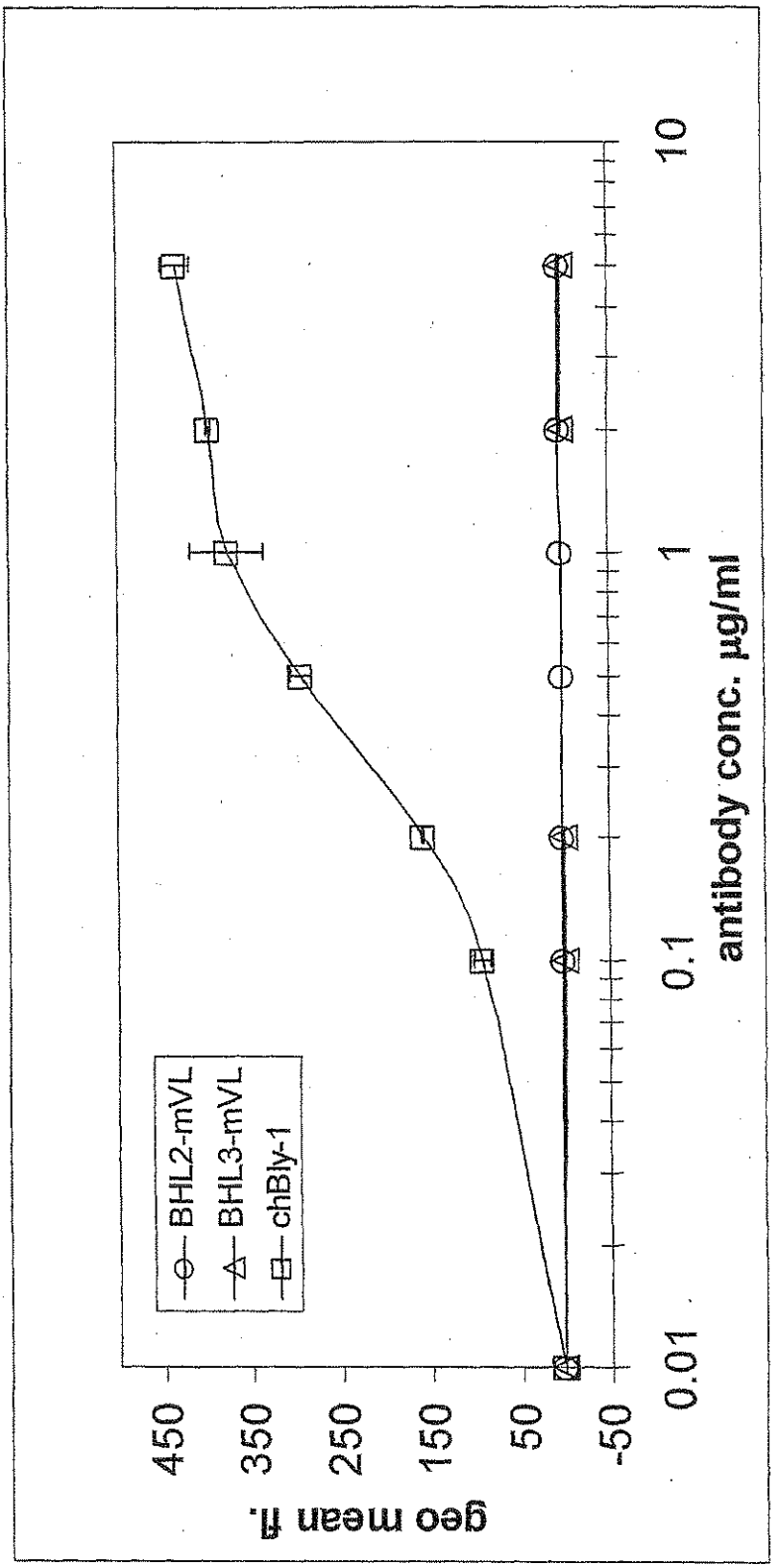

geo mean fl.
450
350
250
150
50
-50
0.01
0.1
1
10
antibody conc. µg/ml
BHL2-mVL
BHL3-mVL
chBly-1

Figure 14

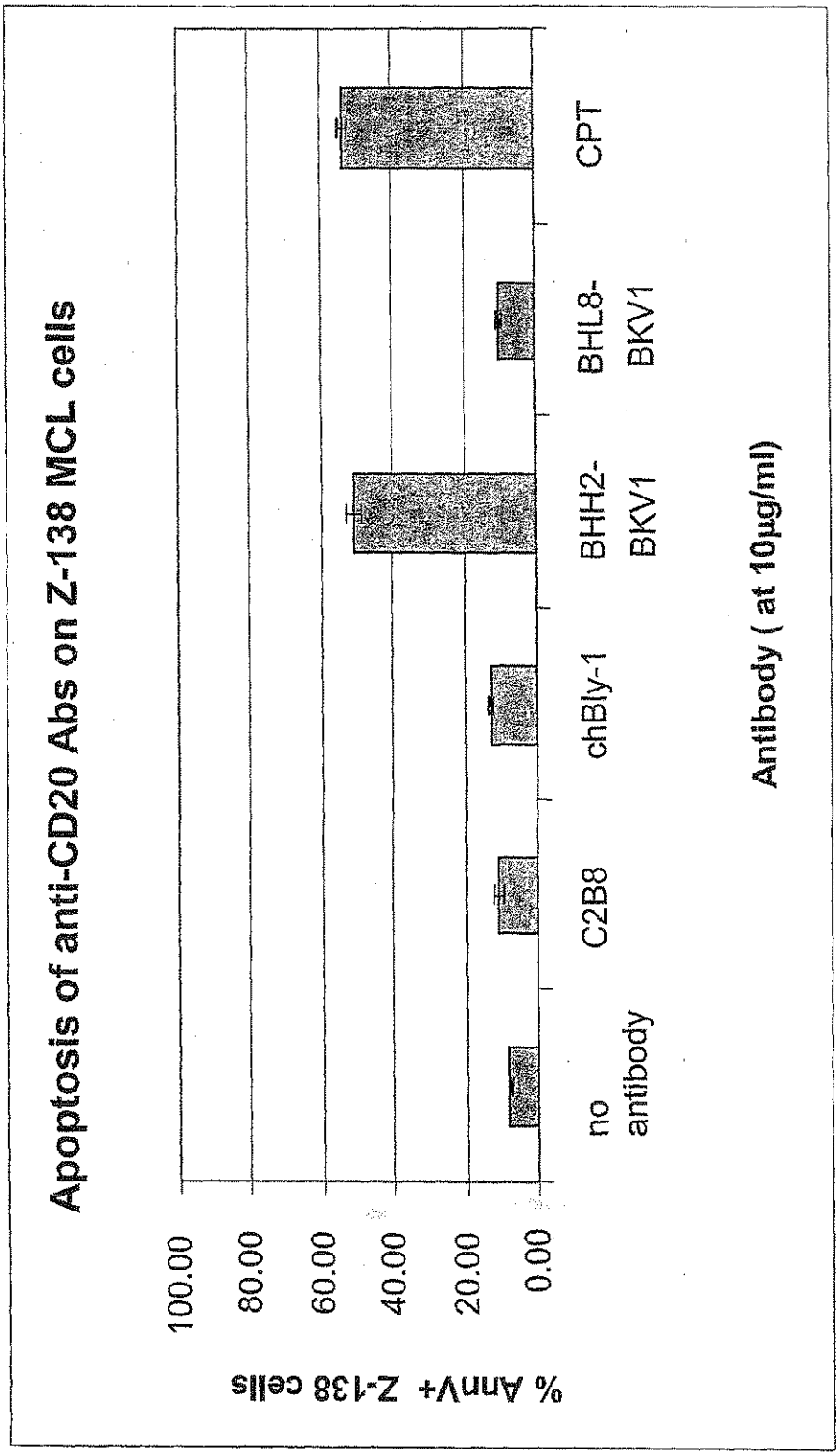

Apoptosis of anti-CD20 Abs on Z-138 MCL cells
% AnnV+ Z-138 cells
100.00
80.00
60.00
40.00
20.00
0.00
no antibody
C2B8
chBly-1
BHH2-BKV1
BHL8-BKV1
CPT
Antibody (at 10µg/ml)

Figure 15

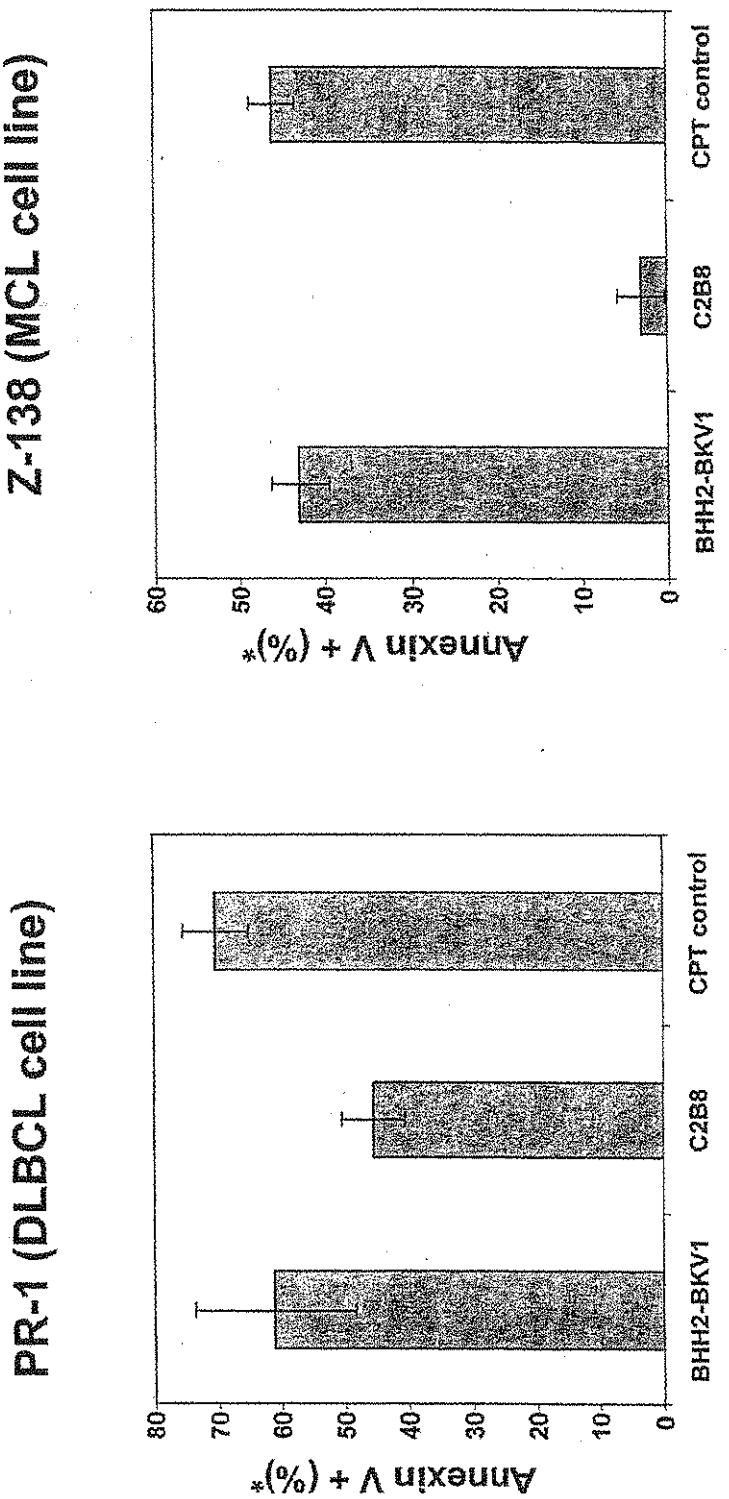

Z-138 (MCL cell line)
Annexin V + (%)*
0
10
20
30
40
50
60
BHH2-BKV1
C2B8
CPT control
PR-1 (DLBCL cell line)
Annexin V + (%)*
0
10
20
30
40
50
60
70
80
BHH2-BKV1
C2B8
CPT control

Figure 16

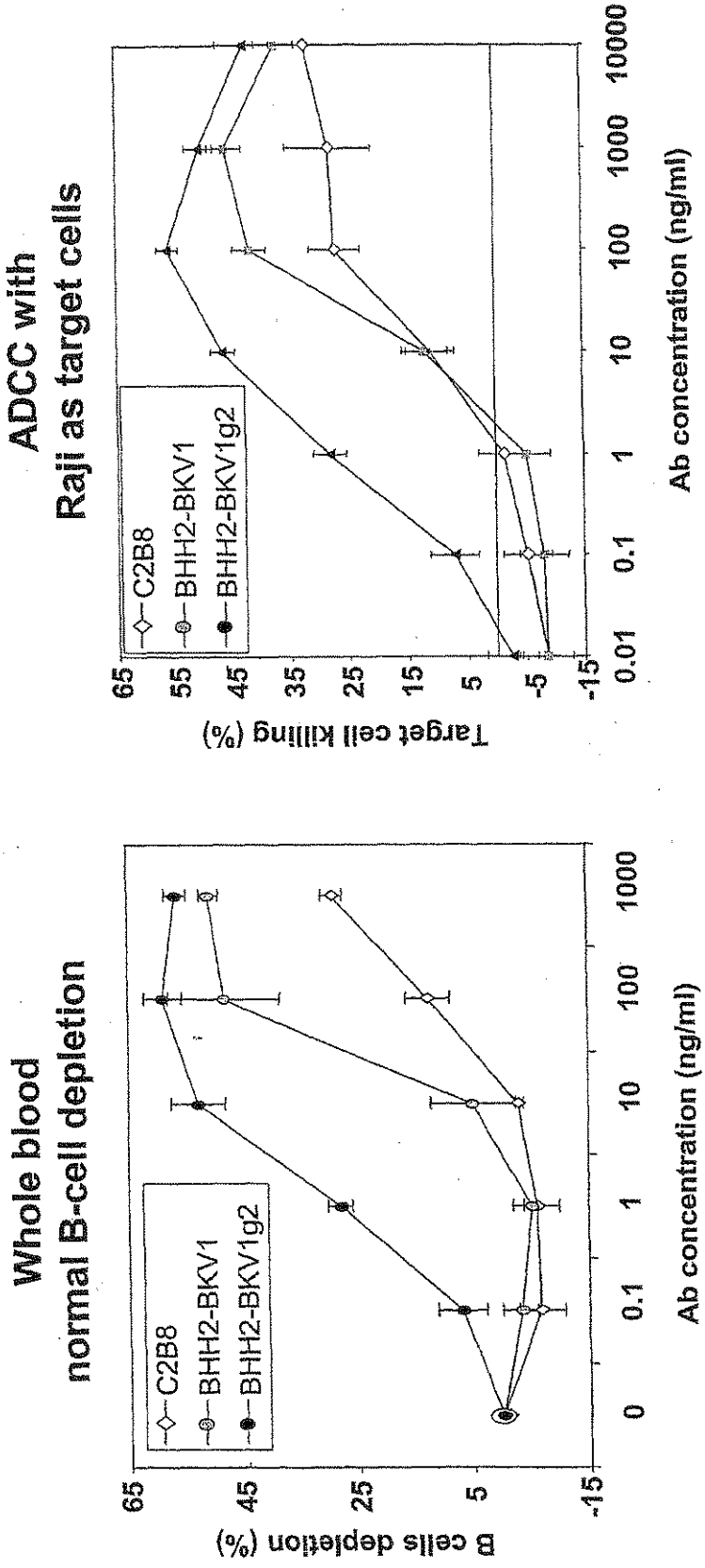

ADCC with
Raji as target cells
Target cell killing (%)
65
55
45
35
25
15
5
-5
-15
C2B8
BHH2-BKV1
BHH2-BKV1g2
0.01
0.1
1
10
100
1000
10000
Ab concentration (ng/ml)
Whole blood
normal B-cell depletion
B cells depletion (%)
65
45
25
5
-15
C2B8
BHH2-BKV1
BHH2-BKV1g2
0
0.1
1
10
100
1000
Ab concentration (ng/ml)

Figure 17

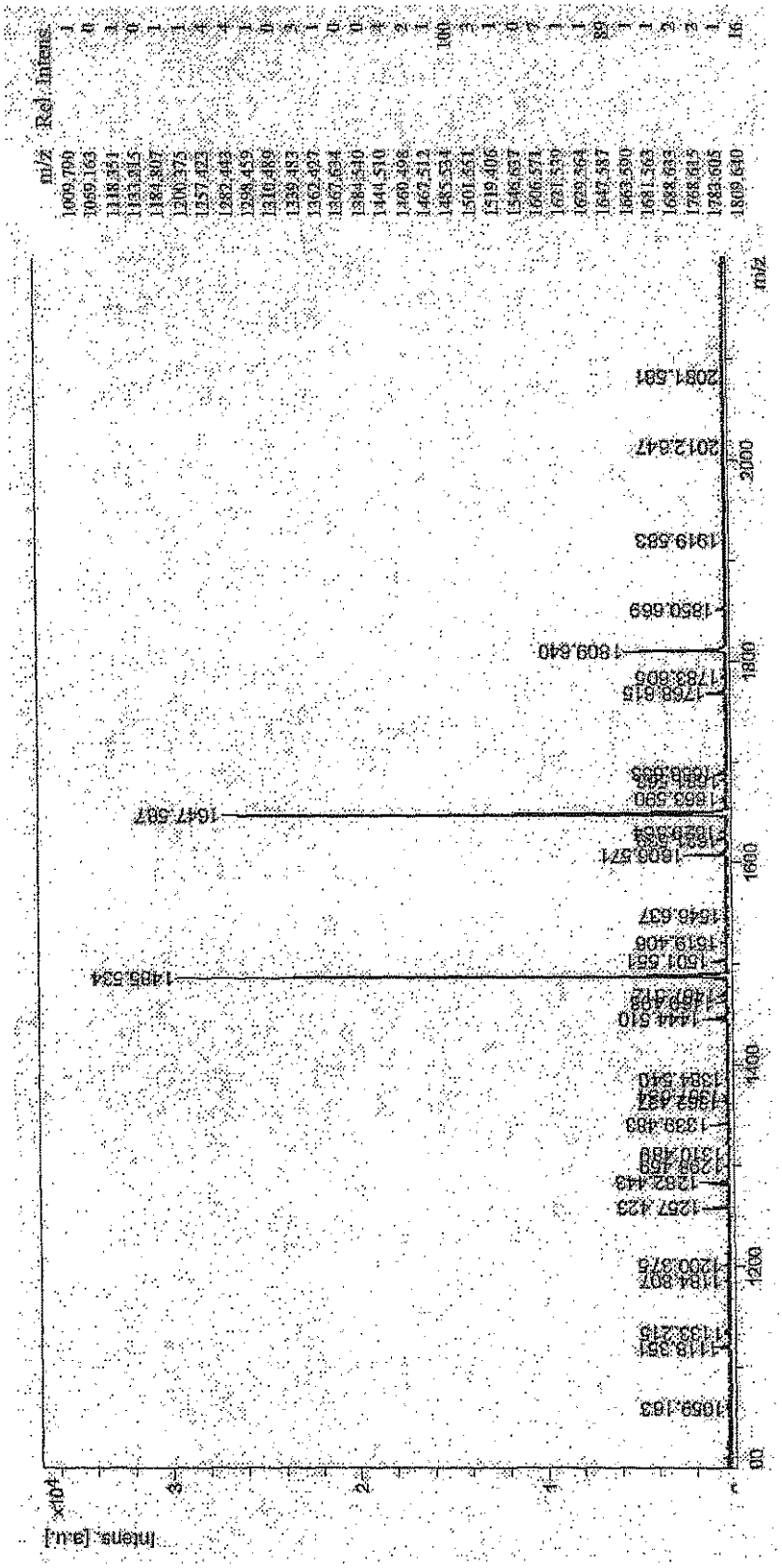

m/z Rel. Intens.
1009.790 1
1059.163 6
1118.351 3
1133.335 6
1184.807 1
1200.375 1
1257.423 4
1262.443 1
1298.459 3
1310.468 1
1339.483 2
1360.497 1
1367.694 10
1384.530 1
1441.510 4
1460.496 2
1467.511 1
1485.534 100
1501.551 2
1519.406 1
1546.637 1
1606.571 2
1621.539 1
1659.564 1
1647.587 88
1663.590 1
1681.583 2
1688.693 3
1788.615 1
1783.605 15
1809.640
m/z
2081.581
2012.047
1919.583
1850.669
1809.640
1783.805
1768.615
1663.590
1647.587
1621.539
1606.571
1547.637
1519.406
1501.551
1485.534
1467.512
1441.510
1384.530
1367.694
1339.483
1310.468
1298.459
1262.443
1257.423
1200.375
1184.807
1133.335
1118.351
1059.163
Intens. [a.u.]
x10⁴

Figure 18

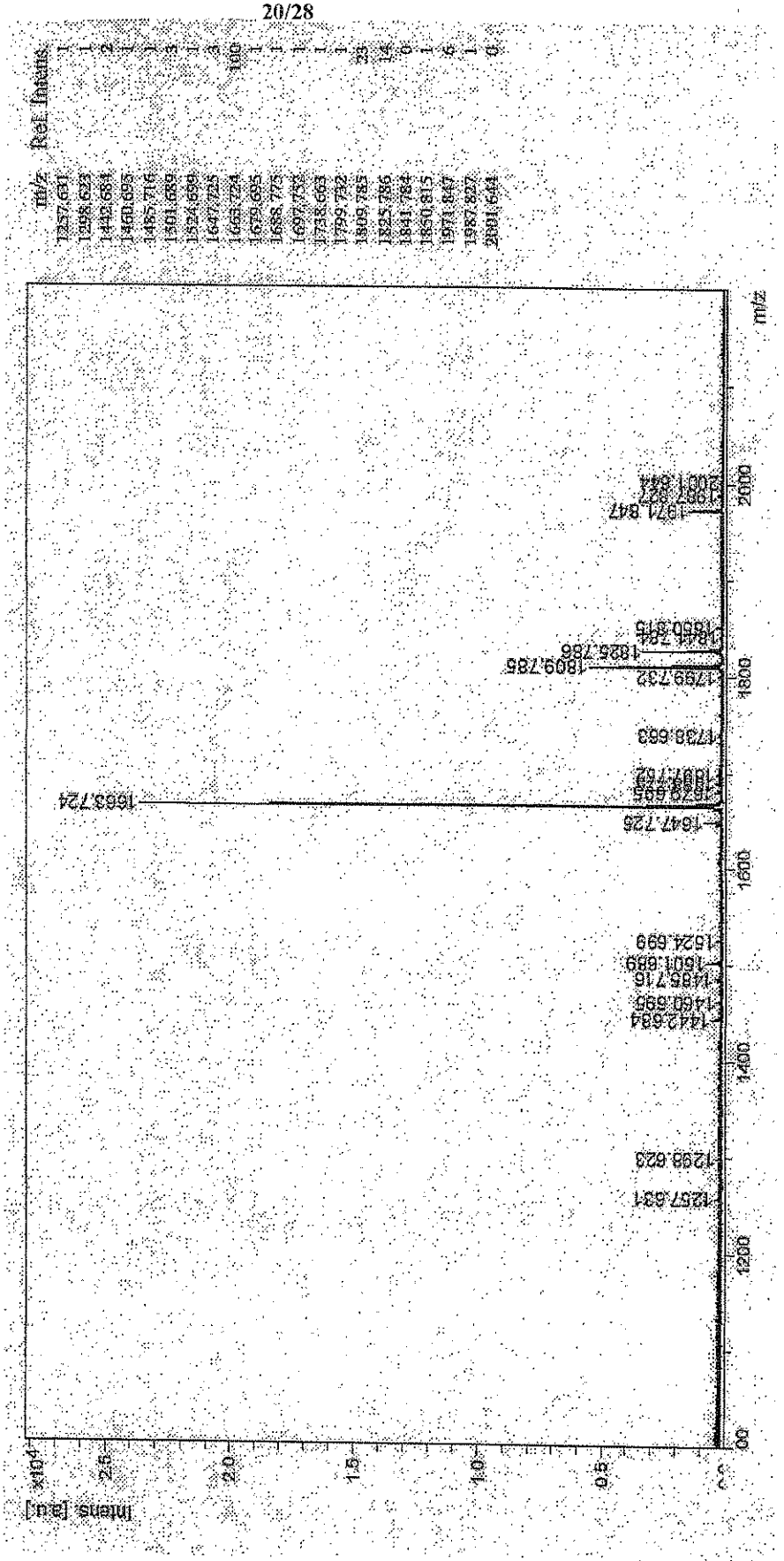

m/z Ref. Intens.
1257.631 7
1298.623 1
1442.634 2
1460.695 1
1485.716 3
1501.689 1
1524.690 3
1647.725 100
1663.724 1
1679.695 1
1688.775 25
1697.757 1
1738.663 1
1799.732 14
1809.785 6
1825.785 1
1841.782 6
1850.815 1
1971.847 1
1987.827 0
2001.644 0
Intens. [a.u.]
x10⁴
2.5
2.0
1.5
1.0
0.5
0.0
m/z
1200
1400
1600
1800
2000
1257.631
1298.623
1442.634
1460.695
1485.716
1501.689
1524.690
1647.725
1663.724
1679.695
1688.775
1697.757
1738.663
1799.732
1809.785
1825.785
1841.782
1850.815
1971.847
1987.827
2001.644

Figure 19

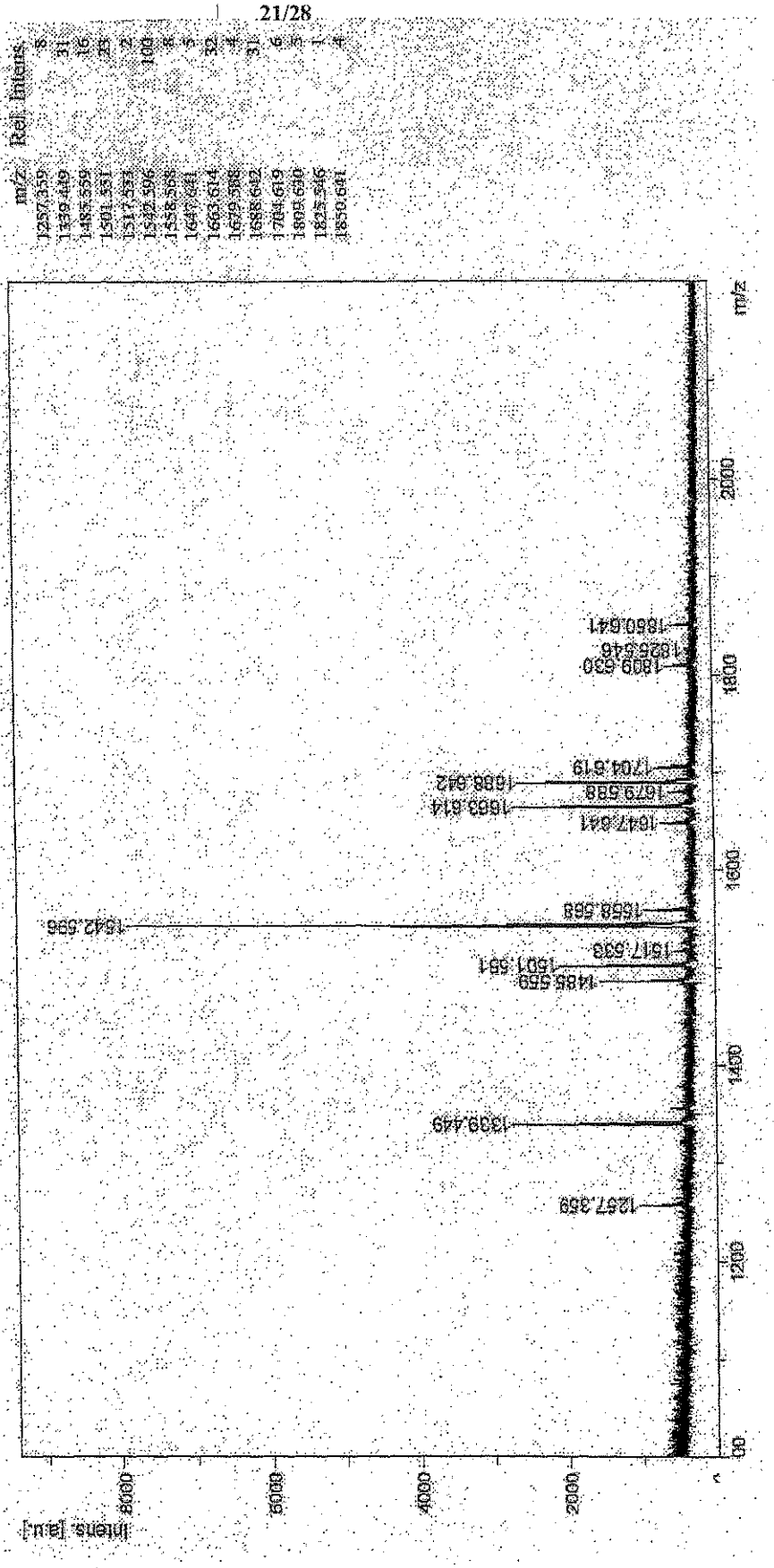

m/z Rel. Intens.
1257.359 8
1339.449 31
1485.559 16
1501.551 23
1517.533 2
1545.596 100
1558.598 8
1647.641 3
1663.614 22
1679.588 4
1688.642 31
1784.619 6
1895.630 2
1825.546 1
1850.641 4
Intens. [a.u.]
8000
6000
4000
2000
0
2000
1800
1600
1400
1200
m/z
1850.641
1825.546
1809.630
1704.619
1679.588
1688.642
1663.614
1647.641
1558.598
1545.596
1517.533
1501.551
1485.559
1339.449
1257.359

Figure 20

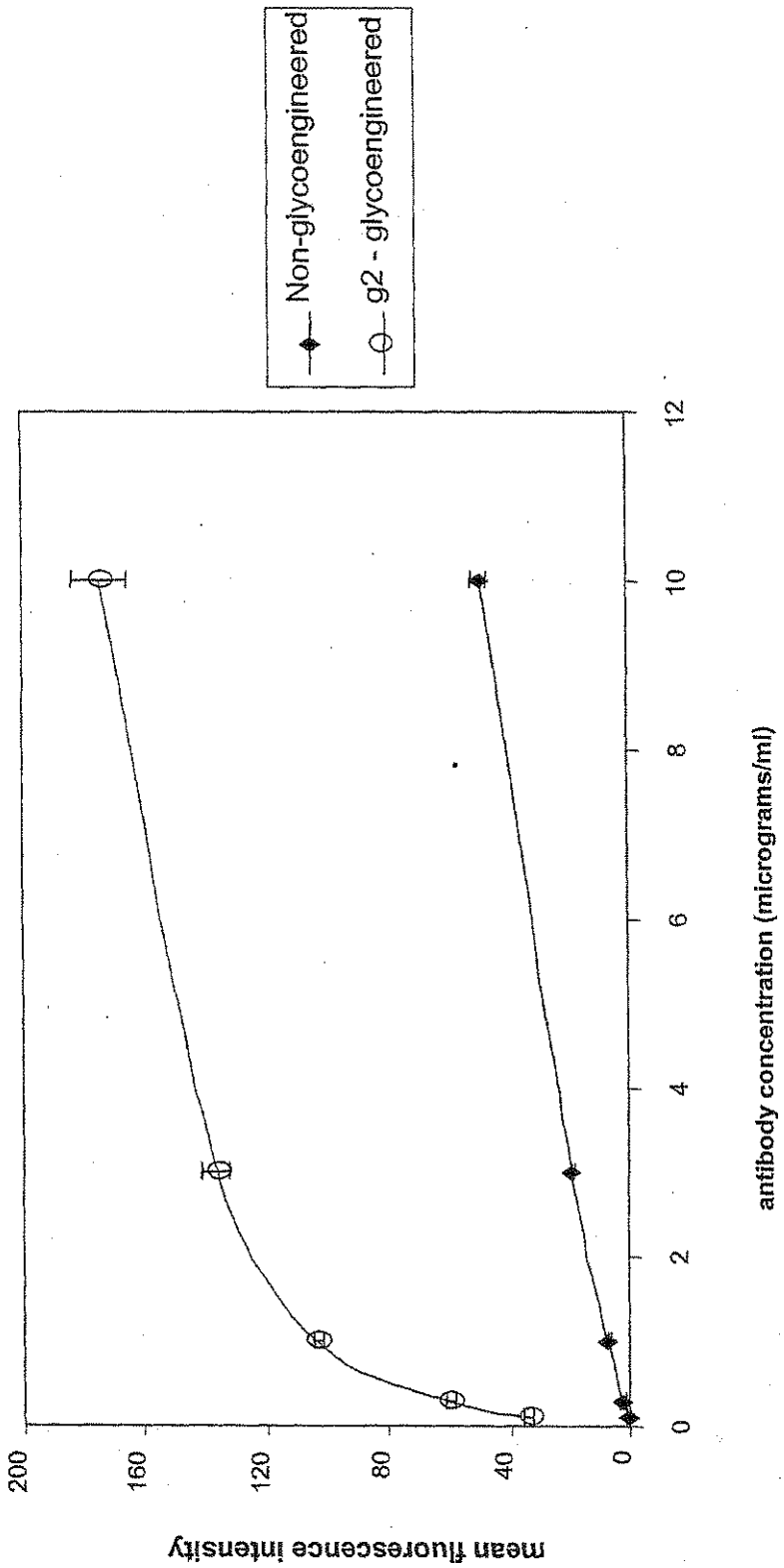

Ab binding to FcgammaRIII on the surface of CHO-CD16 cells
Non-glycoengineered
g2 - glycoengineered
mean fluorescence intensity
0
40
80
120
160
200
0
2
4
6
8
10
12
antibody concentration (micrograms/ml)

Figure 21

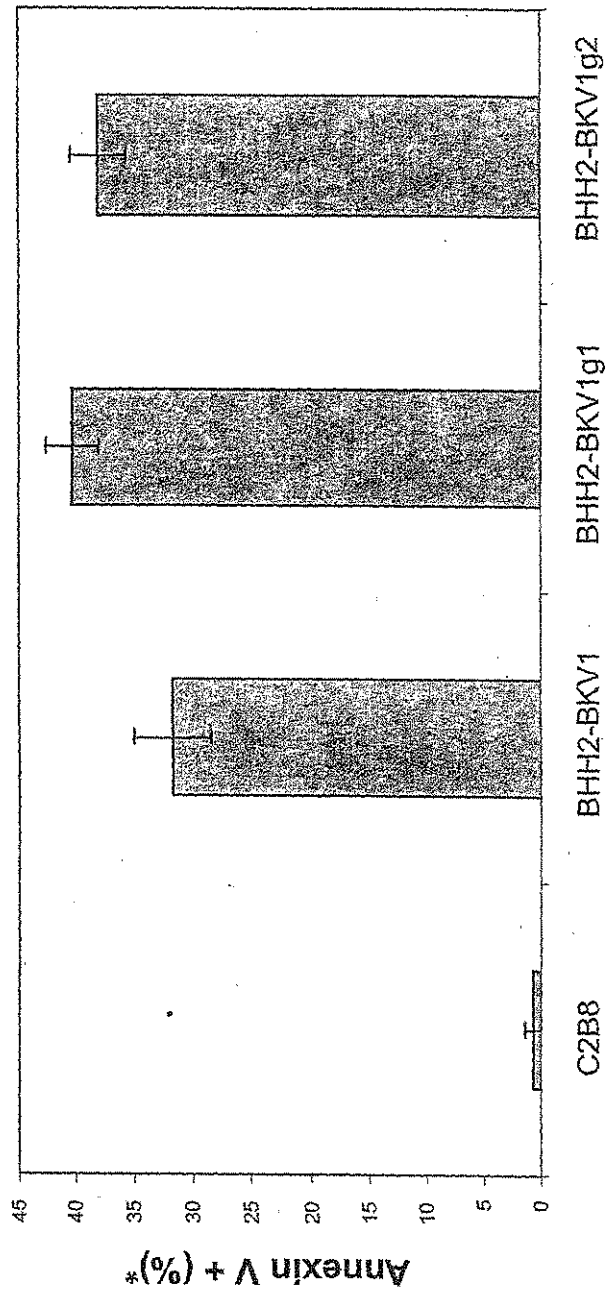

Apoptosis by anti-CD20 Abs
Z-138 mantle cell lymphoma cell line
Annexin V + (%)*
45
40
35
30
25
20
15
10
5
0
C2B8
BHH2-BKV1
BHH2-BKV1g1
BHH2-BKV1g2

Figure 22

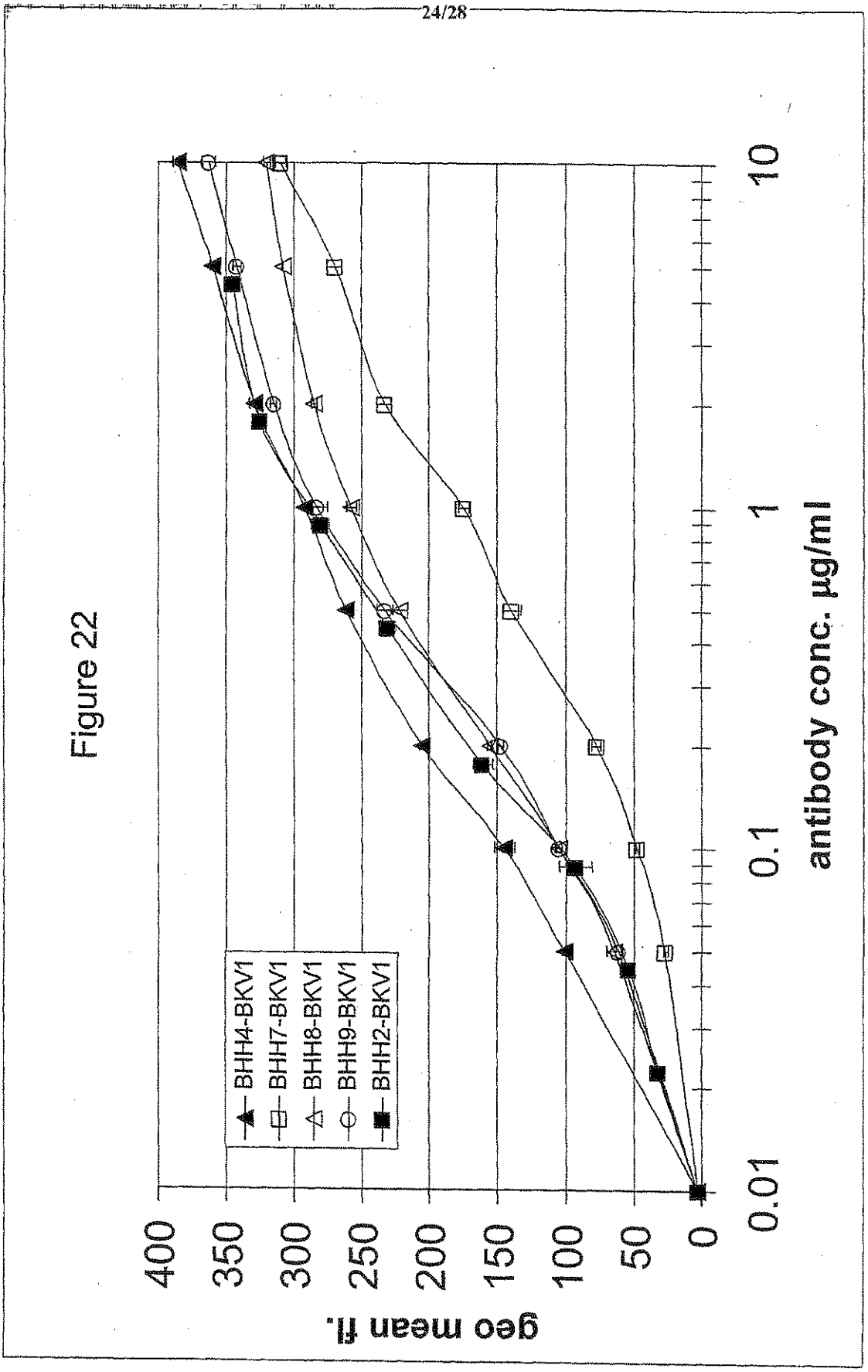

geo mean fl.
400
350
300
250
200
150
100
50
0
0.01
0.1
1
10
antibody conc. µg/ml
BHH4-BKV1
BHH7-BKV1
BHH8-BKV1
BHH9-BKV1
BHH2-BKV1

Figure 23

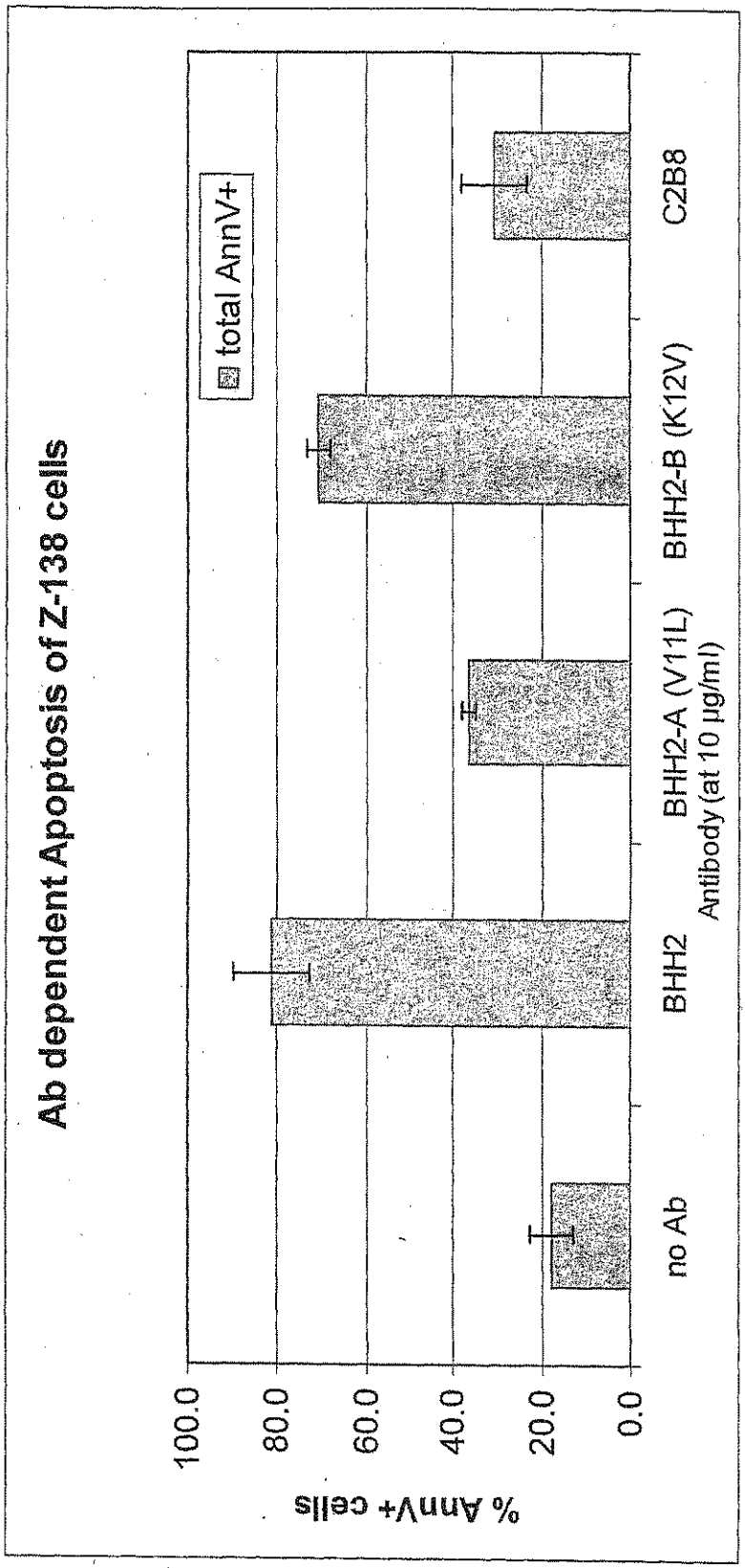

Ab dependent Apoptosis of Z-138 cells
total AnnV+
% AnnV+ cells
100.0
80.0
60.0
40.0
20.0
0.0
no Ab
BHH2
BHH2-A (V11L)
BHH2-B (K12V)
C2B8
Antibody (at 10 µg/ml)

Figure 24

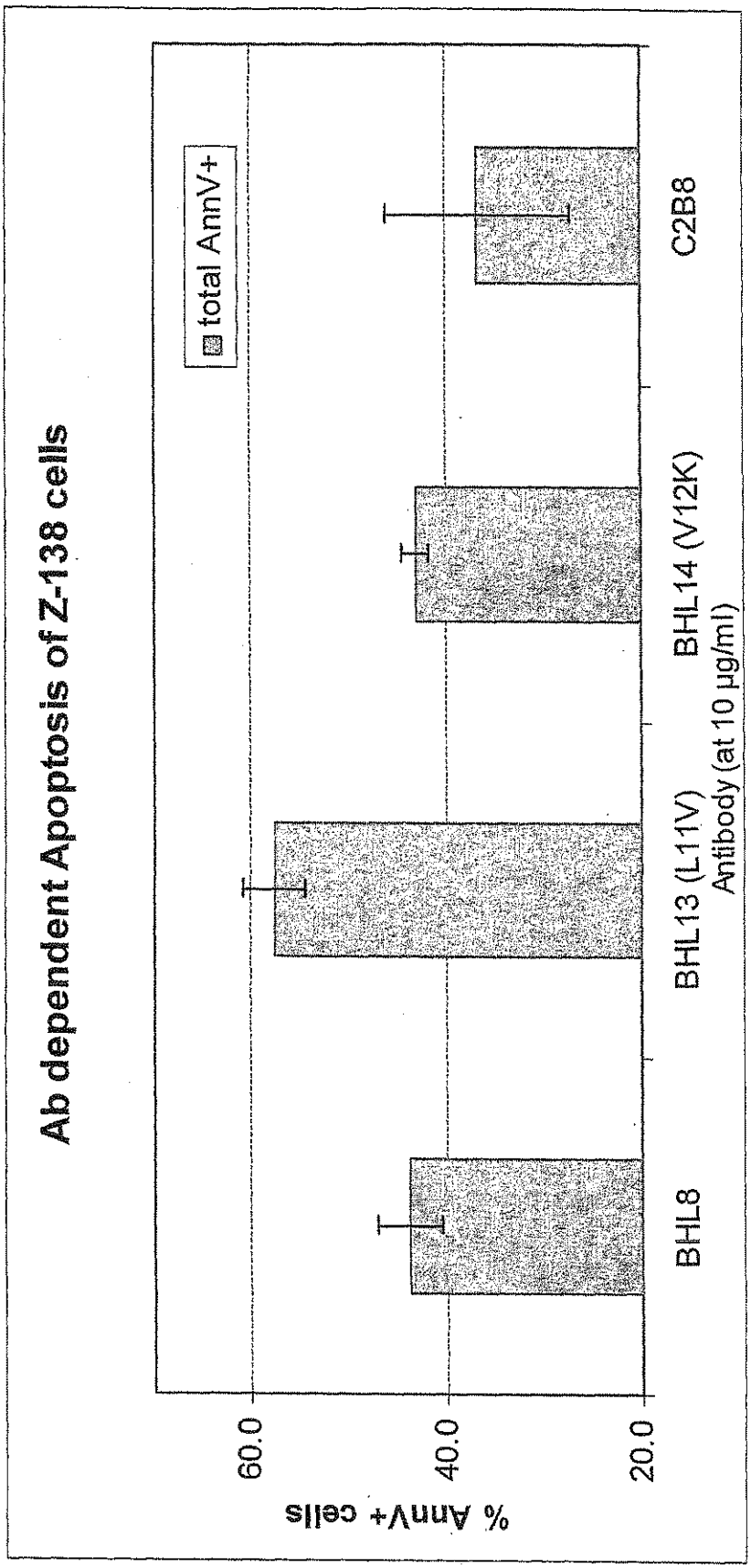
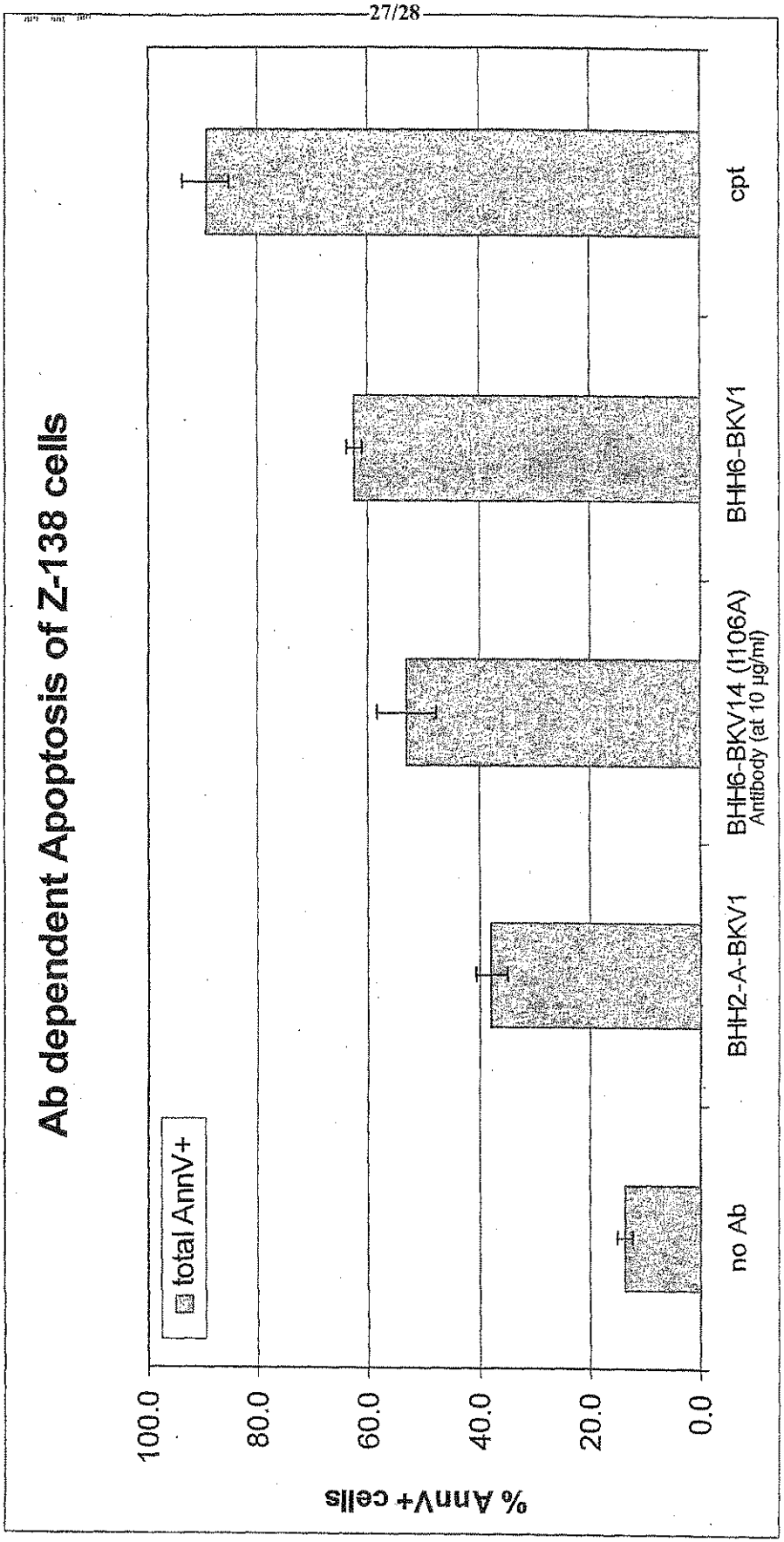

Ab dependent Apoptosis of Z-138 cells
total AnnV+
% AnnV+ cells
60.0
40.0
20.0
BHL8
BHL13 (L11V)
BHL14 (V12K)
C2B8
Antibody (at 10 µg/ml)

Figure 25


Ab dependent Apoptosis of Z-138 cells
% AnnV+ cells
100.0
80.0
60.0
40.0
20.0
0.0
total AnnV+
no Ab
BHH2-A-BKV1
BHH6-BKV14 (I106A)
Antibody (at 10 µg/ml)
BHH6-BKV1
cpt

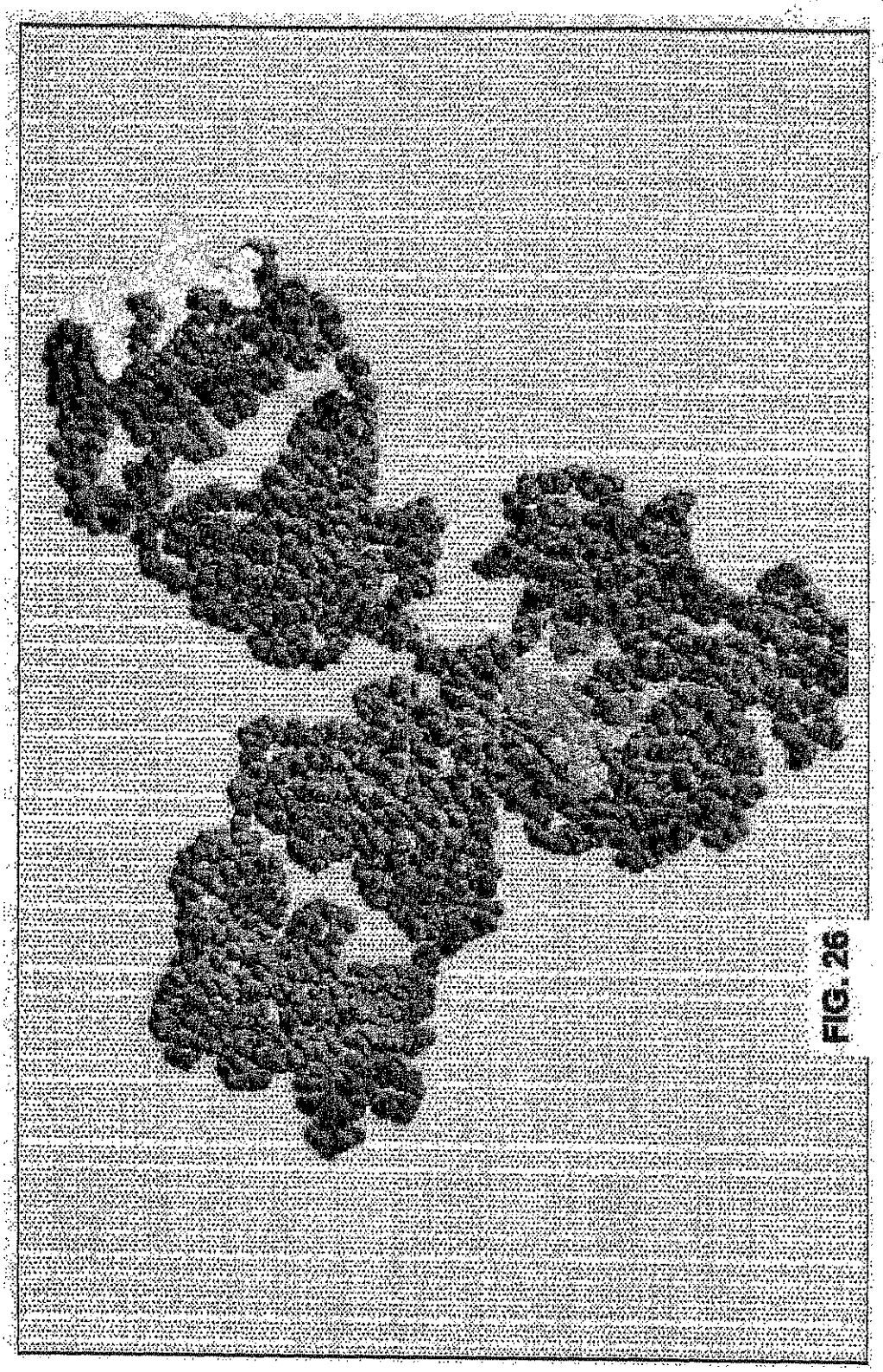


FIG. 26