FIGURE 1

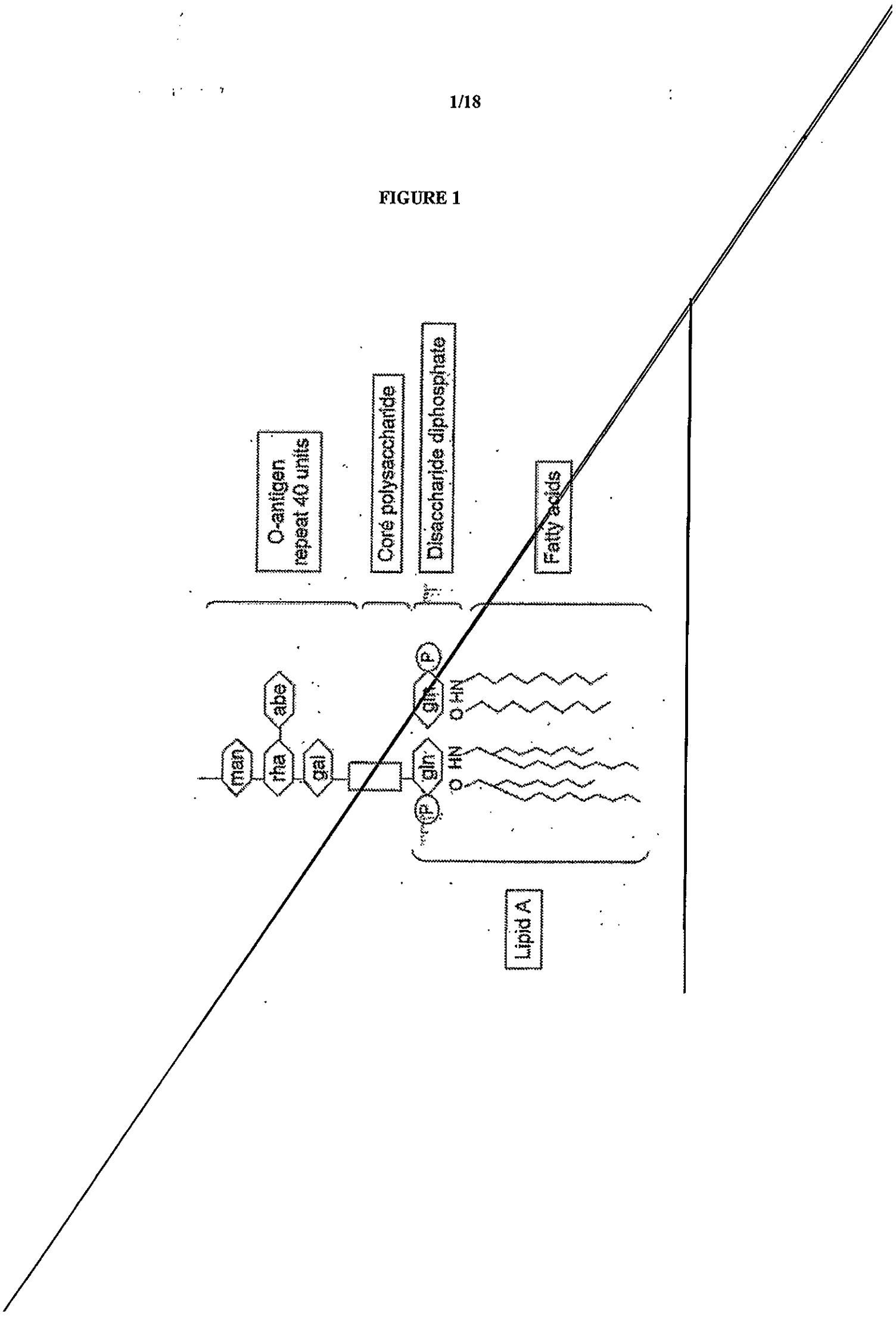

O-antigen
repeat 40 units
Coré polysaccharide
Disaccharide diphosphate
Fatty acids
man
rha
abe
gal
gln
gln
P
P
O HN
O HN
Lipid A

FIGURE 2

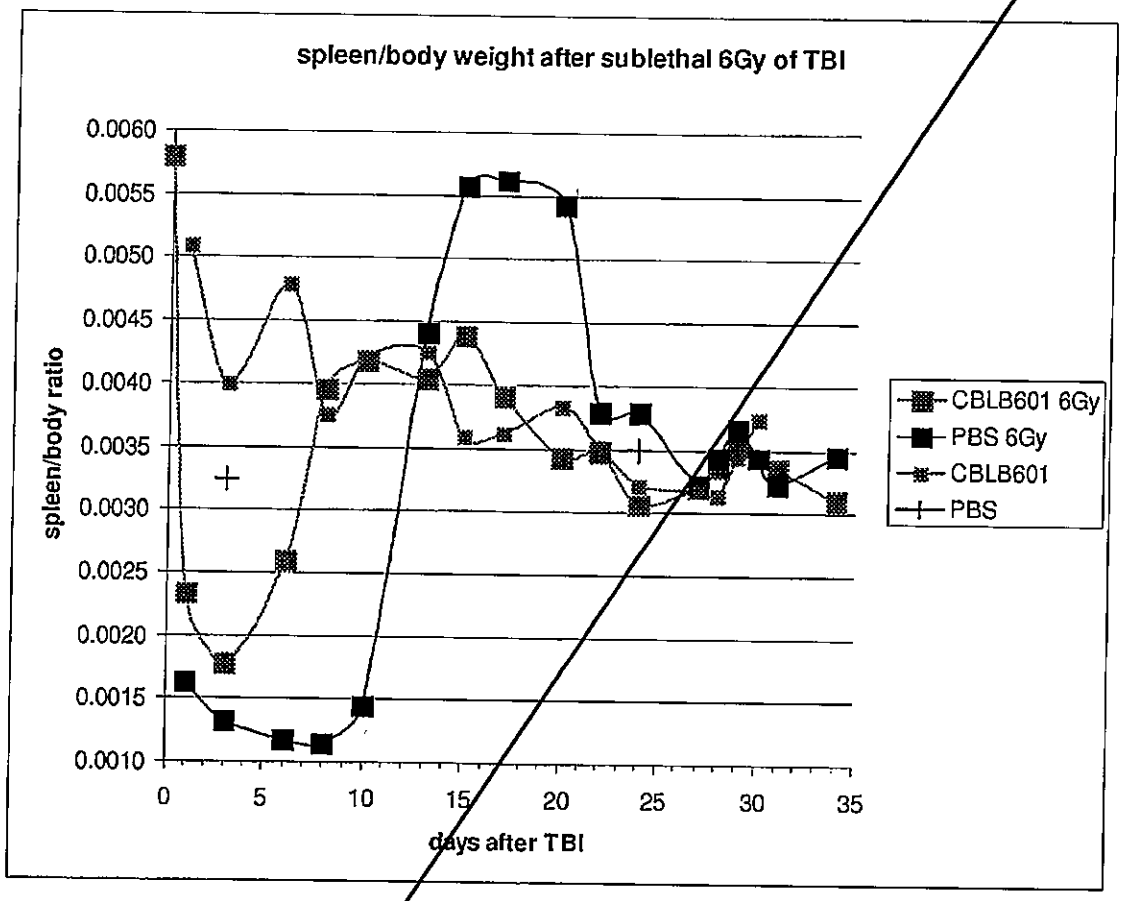

spleen/body weight after sublethal 6Gy of TBI
spleen/body ratio
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0
5
10
15
20
25
30
35
days after TBI
CBLB601 6Gy
PBS 6Gy
CBLB601
PBS

FIGURE 3

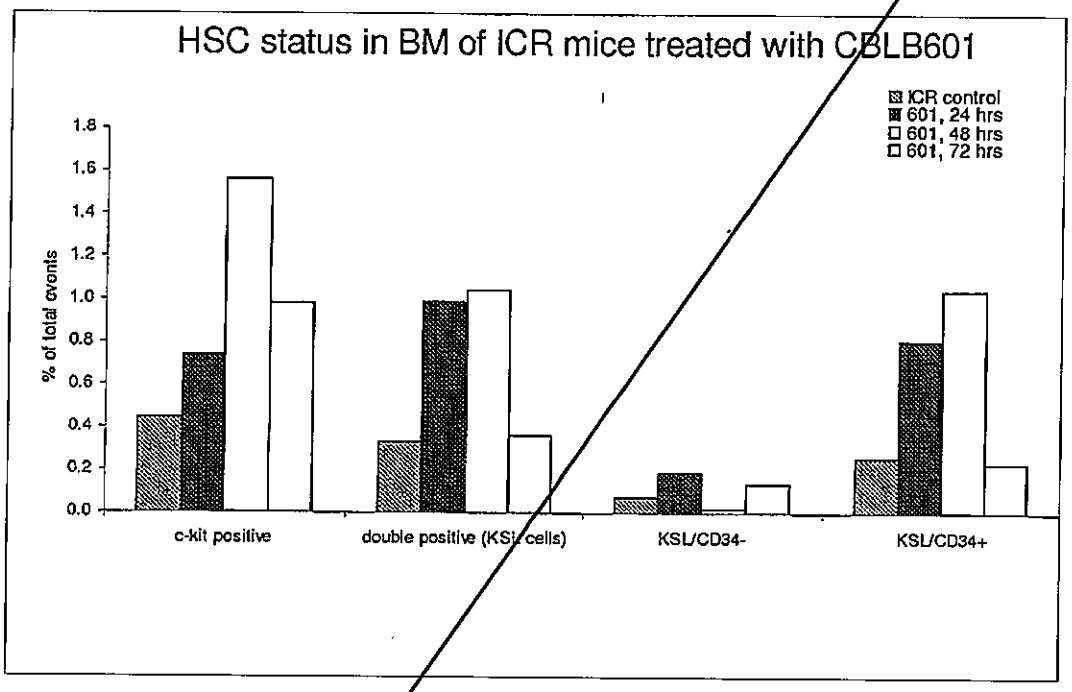

HSC status in BM of ICR mice treated with CBLB601
ICR control
601, 24 hrs
601, 48 hrs
601, 72 hrs
% of total events
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
c-kit positive
double positive (KSL cells)
KSL/CD34-
KSL/CD34+

FIGURE 4

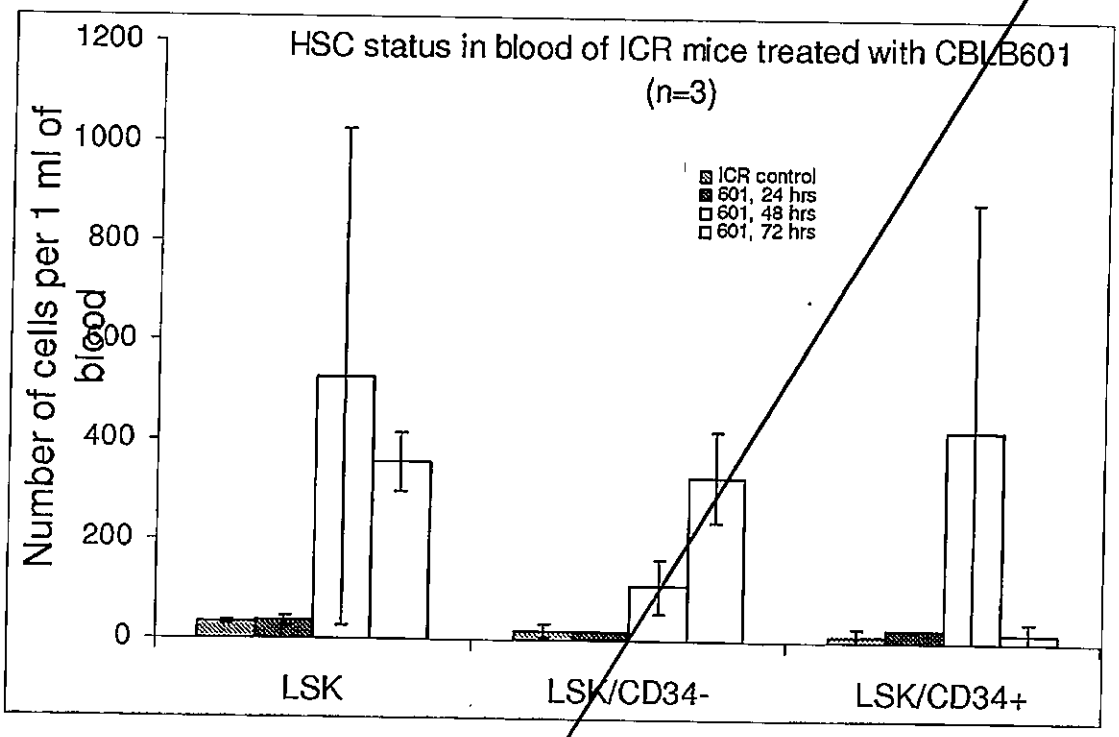

HSC status in blood of ICR mice treated with CBLB601
(n=3)
Number of cells per 1 ml of blood
1200
1000
800
600
400
200
0
ICR control
601, 24 hrs
601, 48 hrs
601, 72 hrs
LSK
LSK/CD34-
LSK/CD34+

FIGURE 5

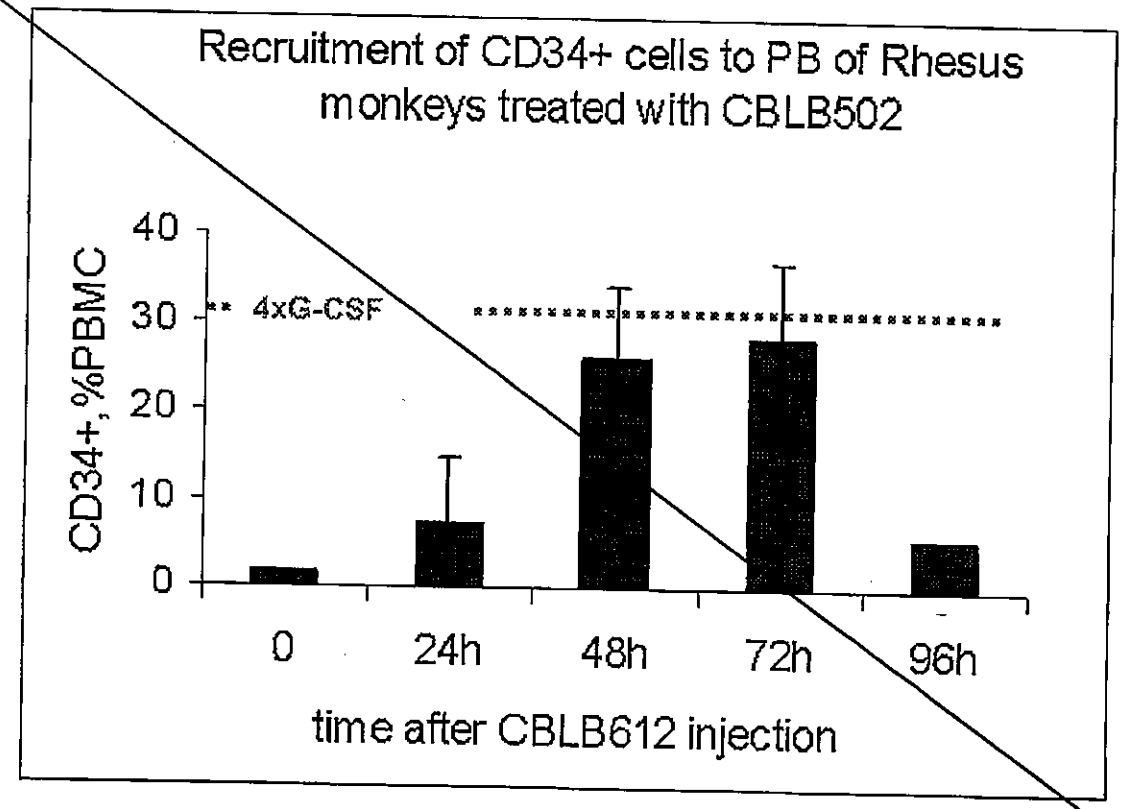

Recruitment of CD34+ cells to PB of Rhesus monkeys treated with CBLB502
CD34+, %PBMC
40
30
20
10
0
** 4xG-CSF
0
24h
48h
72h
96h
time after CBLB612 injection

FIGURE 6

A. Day 2 (24 h post treatment)

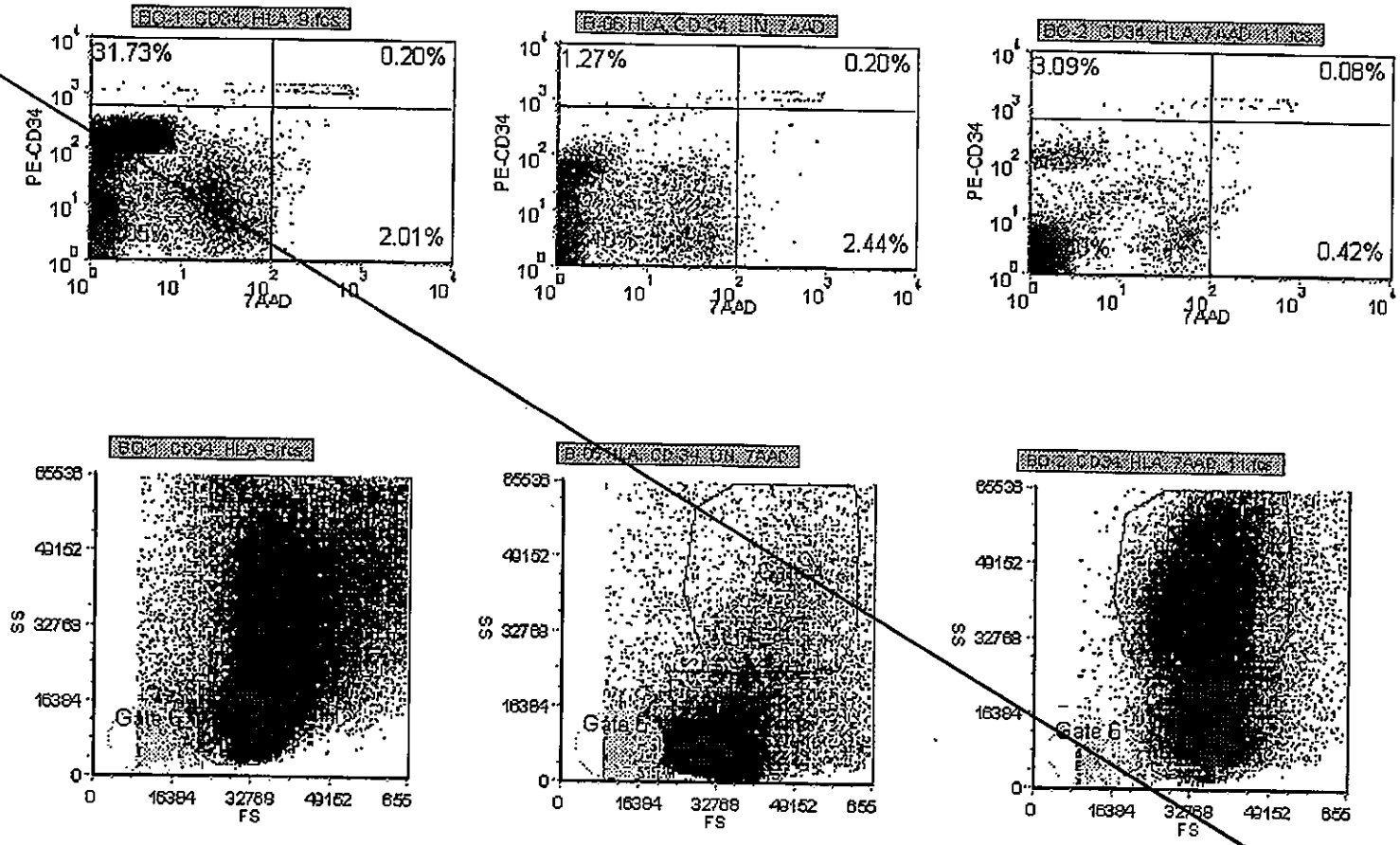


FIGURE 6 (CONTINUED)

B. Day 3 (48h post treatment)

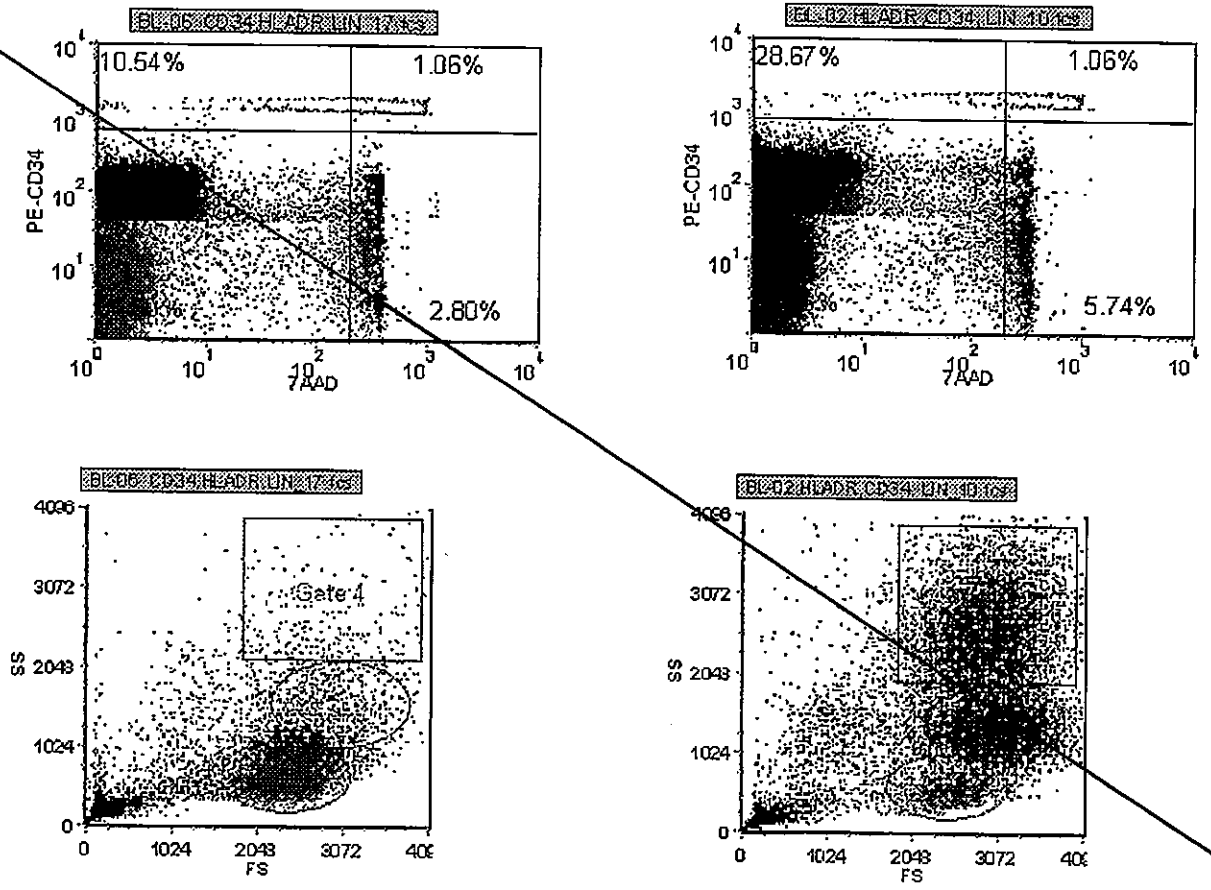


FIGURE 6 (CONTINUED)

C. Day 4 (72h post treatment)

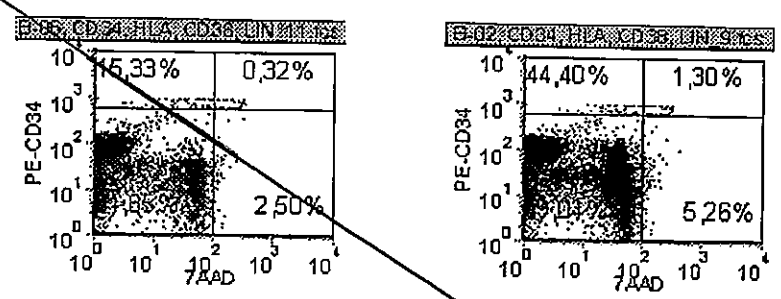


FIGURE 6 (CONTINUED)

D. Day 5 (96h post treatment)

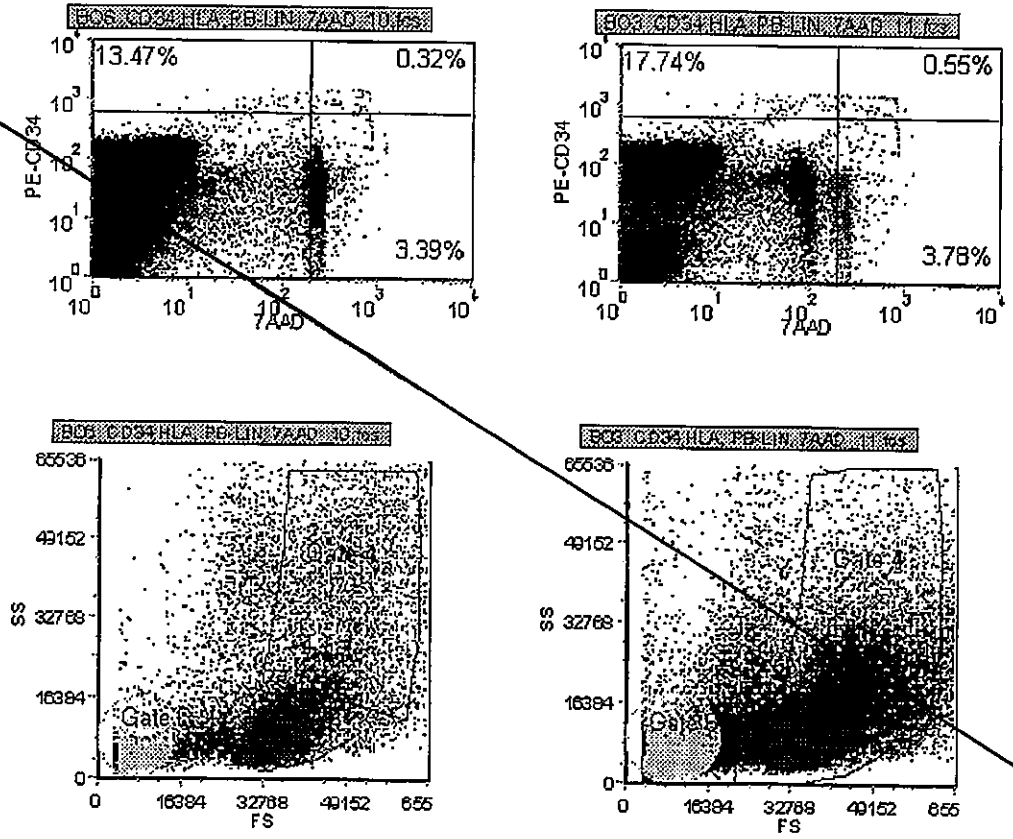


FIGURE 7.

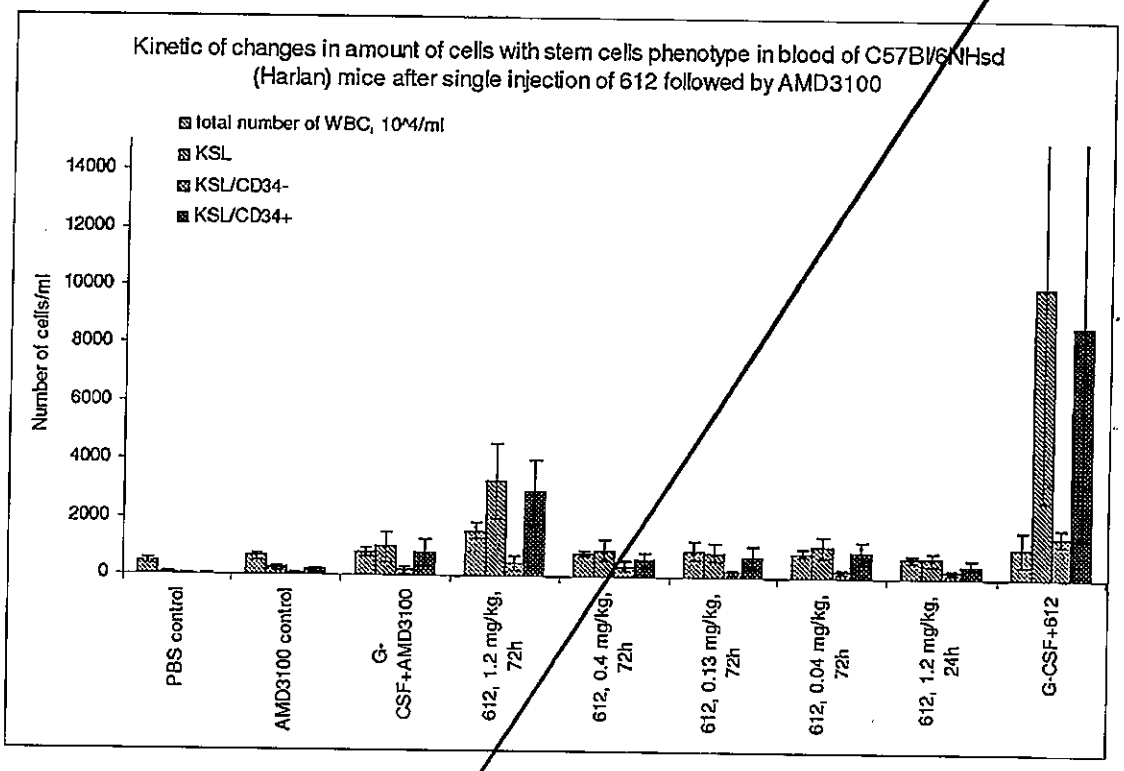

Kinetic of changes in amount of cells with stem cells phenotype in blood of C57Bl/6NHsd (Harlan) mice after single injection of 612 followed by AMD3100
total number of WBC, 10^4/ml
KSL
KSL/CD34-
KSL/CD34+
Number of cells/ml
14000
12000
10000
8000
6000
4000
2000
0
PBS control
AMD3100 control
G-CSF+AMD3100
612, 1.2 mg/kg, 72h
612, 0.4 mg/kg, 72h
612, 0.13 mg/kg, 72h
612, 0.04 mg/kg, 72h
612, 1.2 mg/kg, 24h
G-CSF+612

FIGURE 8.

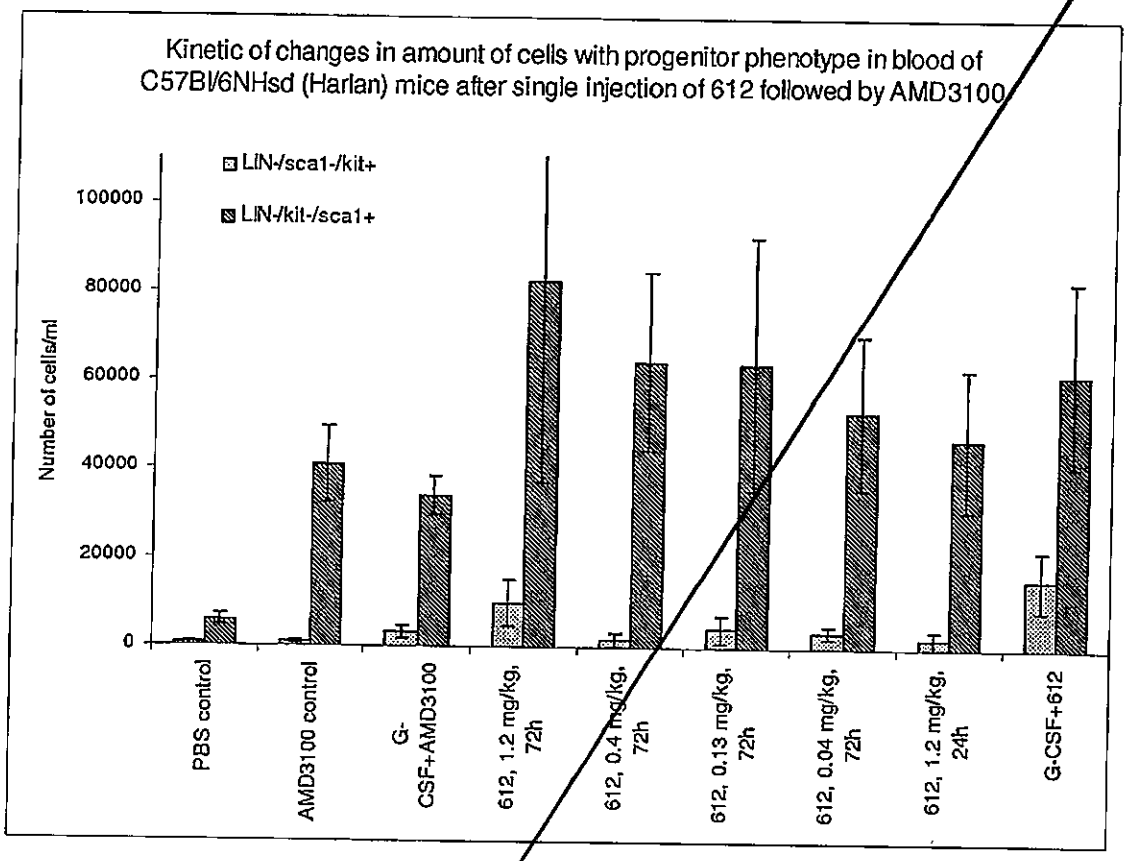

Kinetic of changes in amount of cells with progenitor phenotype in blood of C57Bl/6NHsd (Harlan) mice after single injection of 612 followed by AMD3100
LIN-/sca1-/kit+
LIN-/kit-/sca1+
Number of cells/ml
100000
80000
60000
40000
20000
0
PBS control
AMD3100 control
G-CSF+AMD3100
612, 1.2 mg/kg, 72h
612, 0.4 mg/kg, 72h
612, 0.13 mg/kg, 72h
612, 0.04 mg/kg, 72h
612, 1.2 mg/kg, 24h
G-CSF+612

FIGURE 9.

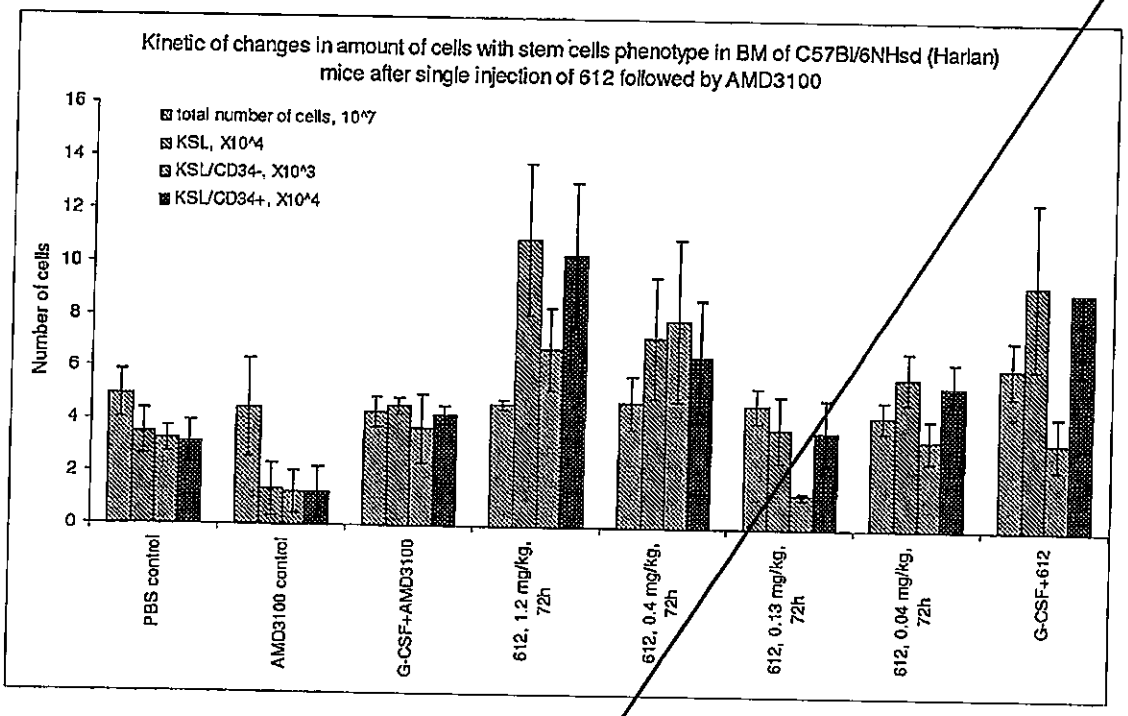

Kinetic of changes in amount of cells with stem cells phenotype in BM of C57Bl/6NHsd (Harlan) mice after single injection of 612 followed by AMD3100
total number of cells, 10^7
KSL, X10^4
KSL/CD34-, X10^3
KSL/CD34+, X10^4
Number of cells
0
2
4
6
8
10
12
14
16
PBS control
AMD3100 control
G-CSF+AMD3100
612, 1.2 mg/kg, 72h
612, 0.4 mg/kg, 72h
612, 0.13 mg/kg, 72h
612, 0.04 mg/kg, 72h
G-CSF+612

FIGURE 10.

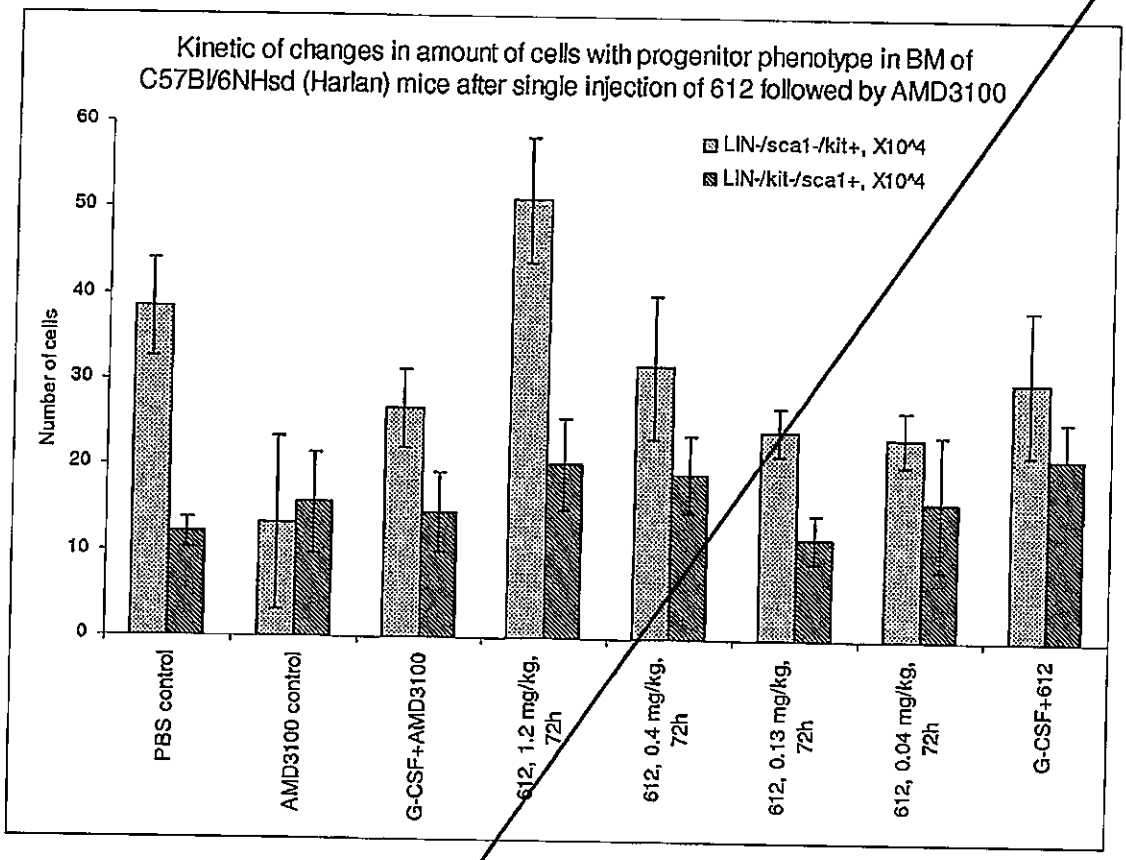

Kinetic of changes in amount of cells with progenitor phenotype in BM of C57Bl/6NHsd (Harlan) mice after single injection of 612 followed by AMD3100
LIN-/sca1-/kit+, X10^4
LIN-/kit-/sca1+, X10^4
Number of cells
60
50
40
30
20
10
0
PBS control
AMD3100 control
G-CSF+AMD3100
612, 1.2 mg/kg, 72h
612, 0.4 mg/kg, 72h
612, 0.13 mg/kg, 72h
612, 0.04 mg/kg, 72h
G-CSF+612

FIGURE 11.

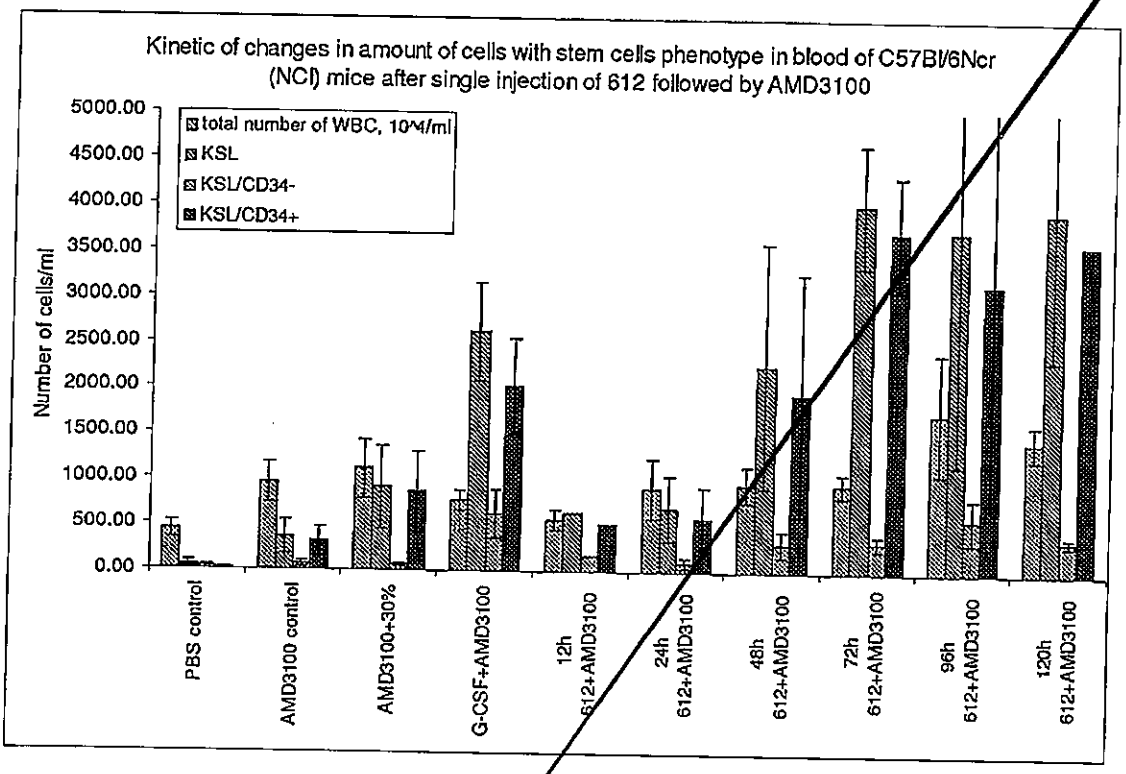

Kinetic of changes in amount of cells with stem cells phenotype in blood of C57Bl/6Ncr (NCI) mice after single injection of 612 followed by AMD3100
total number of WBC, 10^4/ml
KSL
KSL/CD34-
KSL/CD34+
Number of cells/ml
5000.00
4500.00
4000.00
3500.00
3000.00
2500.00
2000.00
1500.00
1000.00
500.00
0.00
PBS control
AMD3100 control
AMD3100+30%
G-CSF+AMD3100
12h 612+AMD3100
24h 612+AMD3100
48h 612+AMD3100
72h 612+AMD3100
96h 612+AMD3100
120h 612+AMD3100

FIGURE 12.

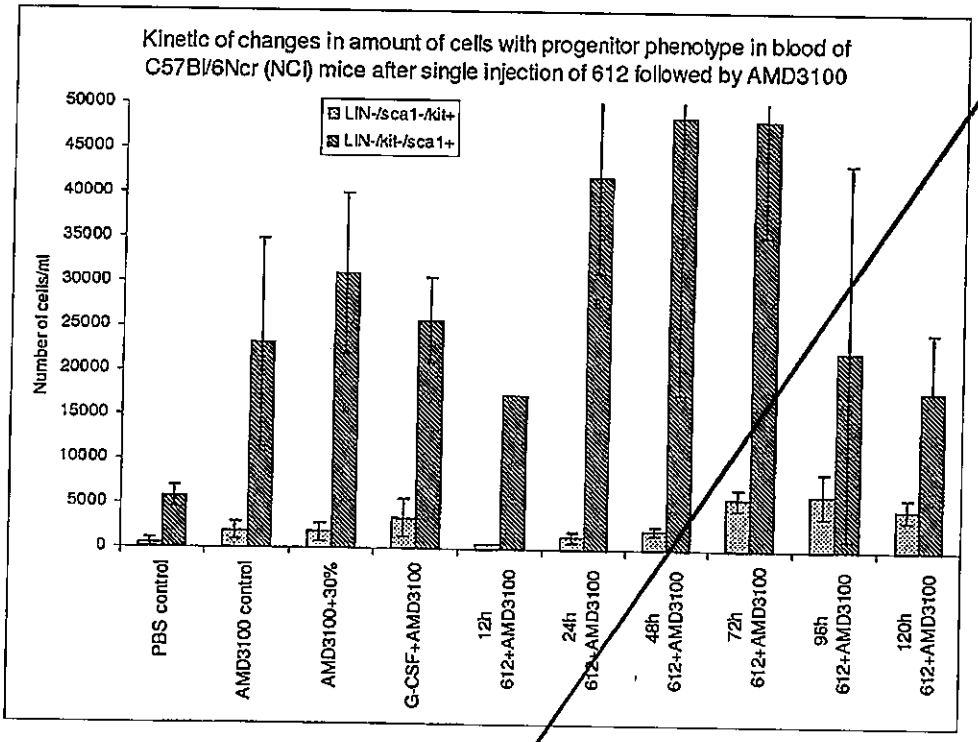

Kinetic of changes in amount of cells with progenitor phenotype in blood of C57Bl/6Ncr (NCI) mice after single injection of 612 followed by AMD3100
LIN-/sca1-/kit+
LIN-/kit-/sca1+
Number of cells/ml
50000
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
PBS control
AMD3100 control
AMD3100+30%
G-CSF+AMD3100
12h 612+AMD3100
24h 612+AMD3100
48h 612+AMD3100
72h 612+AMD3100
96h 612+AMD3100
120h 612+AMD3100

FIGURE 13.

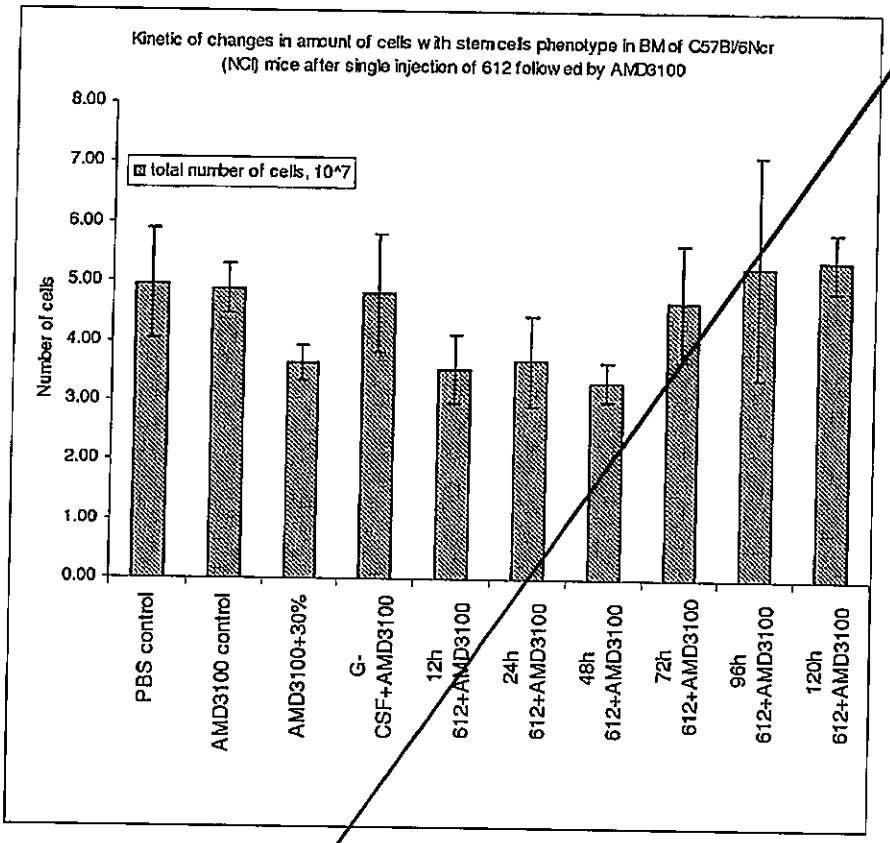

Kinetic of changes in amount of cells with stem cels phenotype in BM of C57Bl/6Ncr (NCI) mice after single injection of 612 followed by AMD3100
total number of cells, 10^7
Number of cells
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
PBS control
AMD3100 control
AMD3100+30%
G-CSF+AMD3100
12h 612+AMD3100
24h 612+AMD3100
48h 612+AMD3100
72h 612+AMD3100
96h 612+AMD3100
120h 612+AMD3100

FIGURE 14.

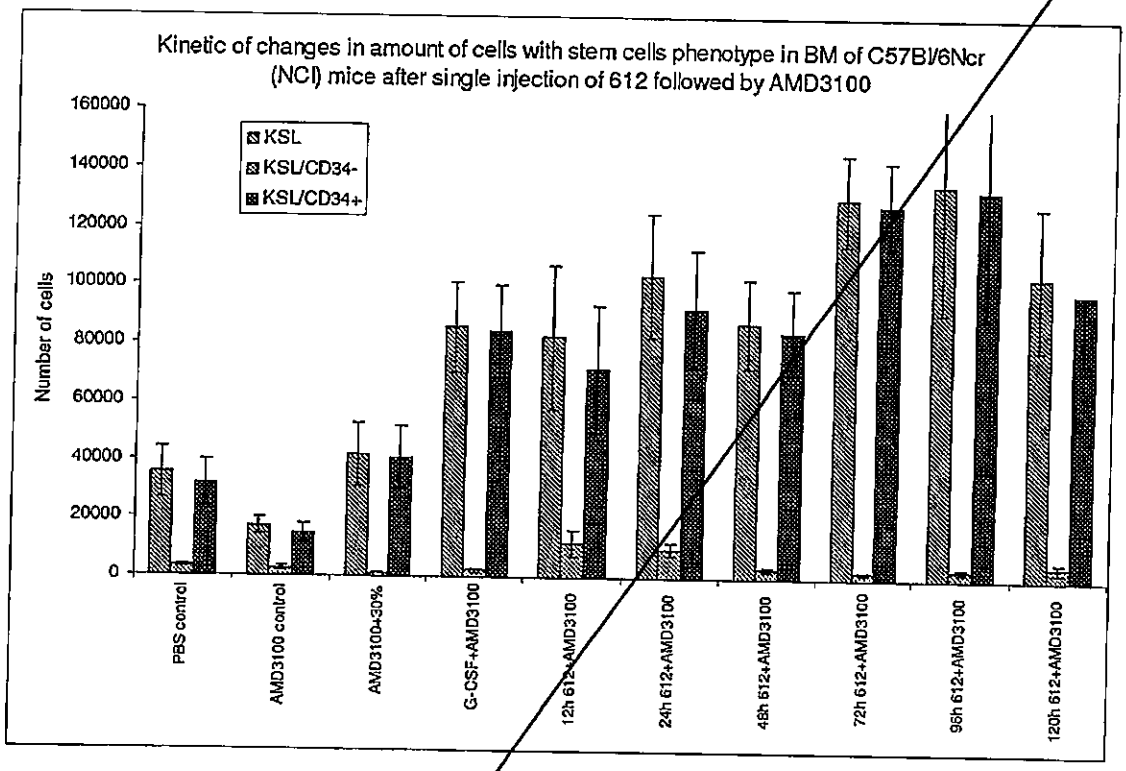

Kinetic of changes in amount of cells with stem cells phenotype in BM of C57Bl/6Ncr (NCI) mice after single injection of 612 followed by AMD3100
KSL
KSL/CD34-
KSL/CD34+
Number of cells
160000
140000
120000
100000
80000
60000
40000
20000
0
PBS control
AMD3100 control
AMD3100+30%
G-CSF+AMD3100
12h 612+AMD3100
24h 612+AMD3100
48h 612+AMD3100
72h 612+AMD3100
96h 612+AMD3100
120h 612+AMD3100

FIGURE 15.

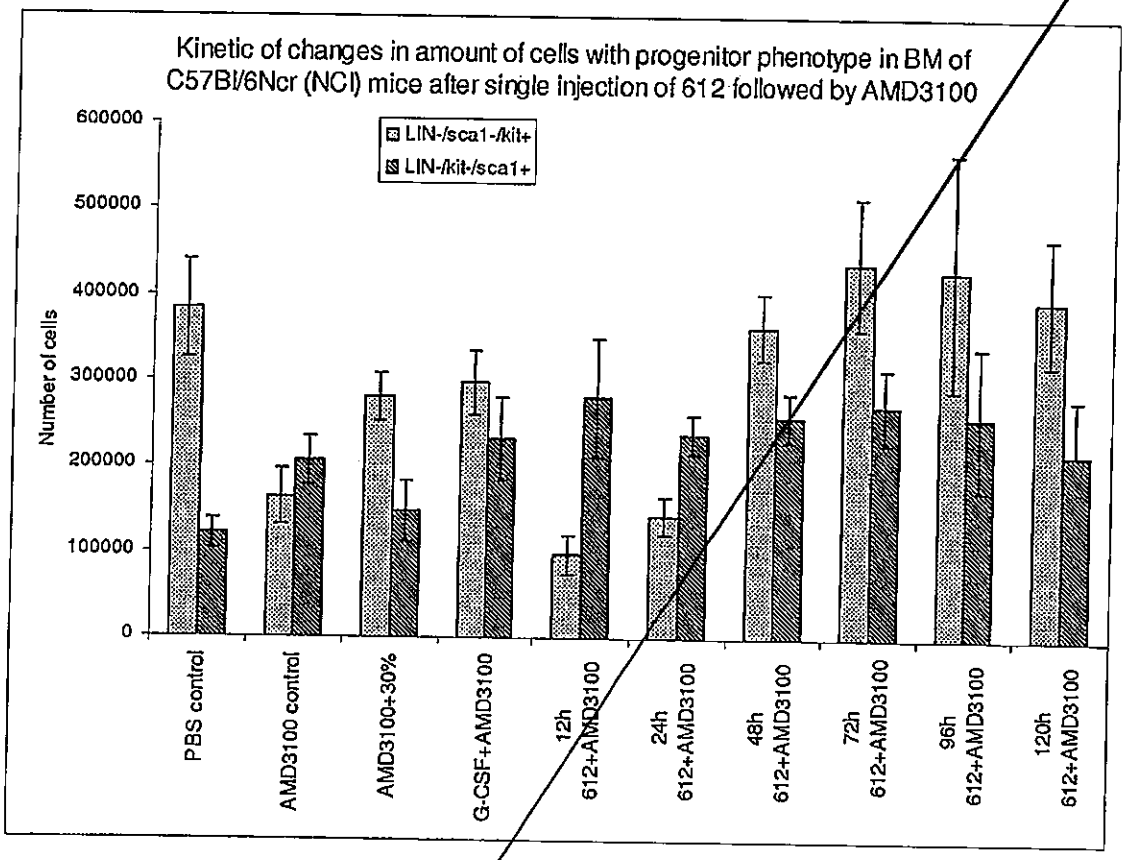

Kinetic of changes in amount of cells with progenitor phenotype in BM of C57Bl/6Ncr (NCI) mice after single injection of 612 followed by AMD3100
LIN-/sca1-/kit+
LIN-/kit-/sca1+
Number of cells
600000
500000
400000
300000
200000
100000
0
PBS control
AMD3100 control
AMD3100+30%
G-CSF+AMD3100
12h 612+AMD3100
24h 612+AMD3100
48h 612+AMD3100
72h 612+AMD3100
96h 612+AMD3100
120h 612+AMD3100

FIGURE 1

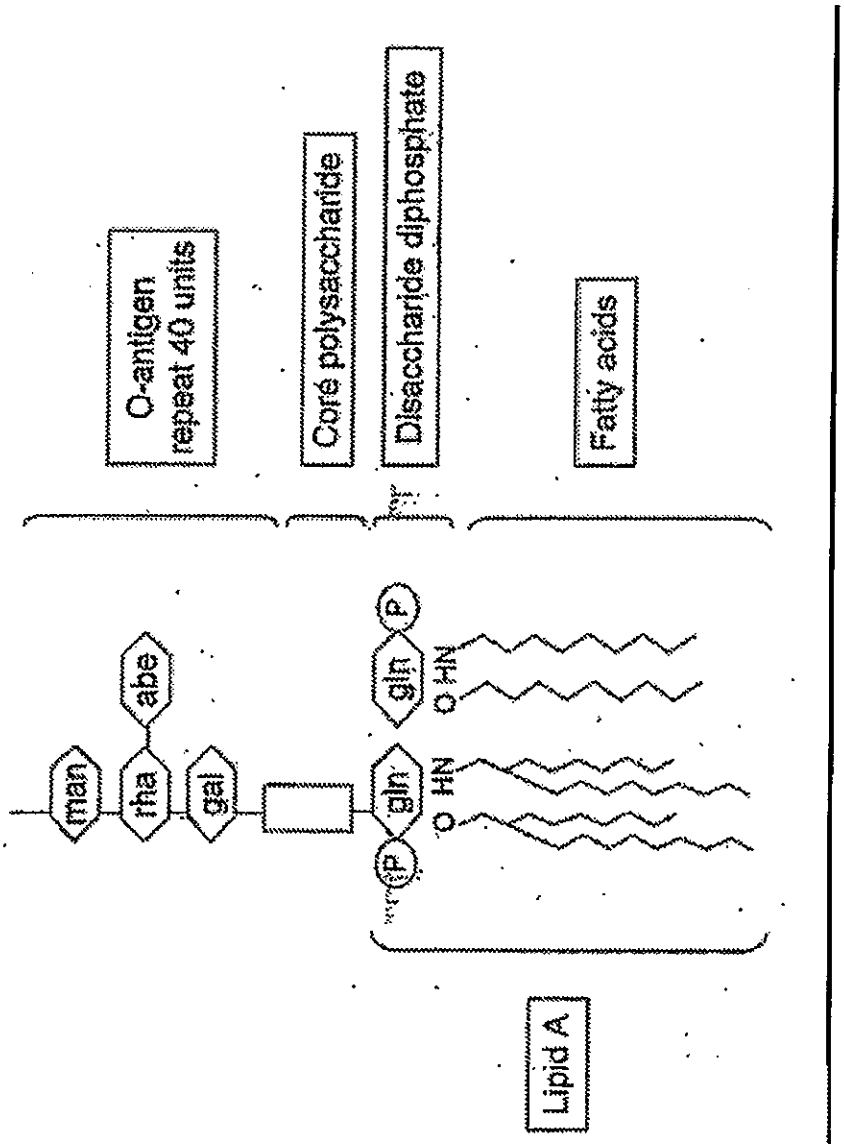

O-antigen
repeat 40 units
Core polysaccharide
Disaccharide diphosphate
Fatty acids
man
rha
abe
gal
gln
gln
P
P
O HN
O HN
O
Lipid A

FIGURE 2

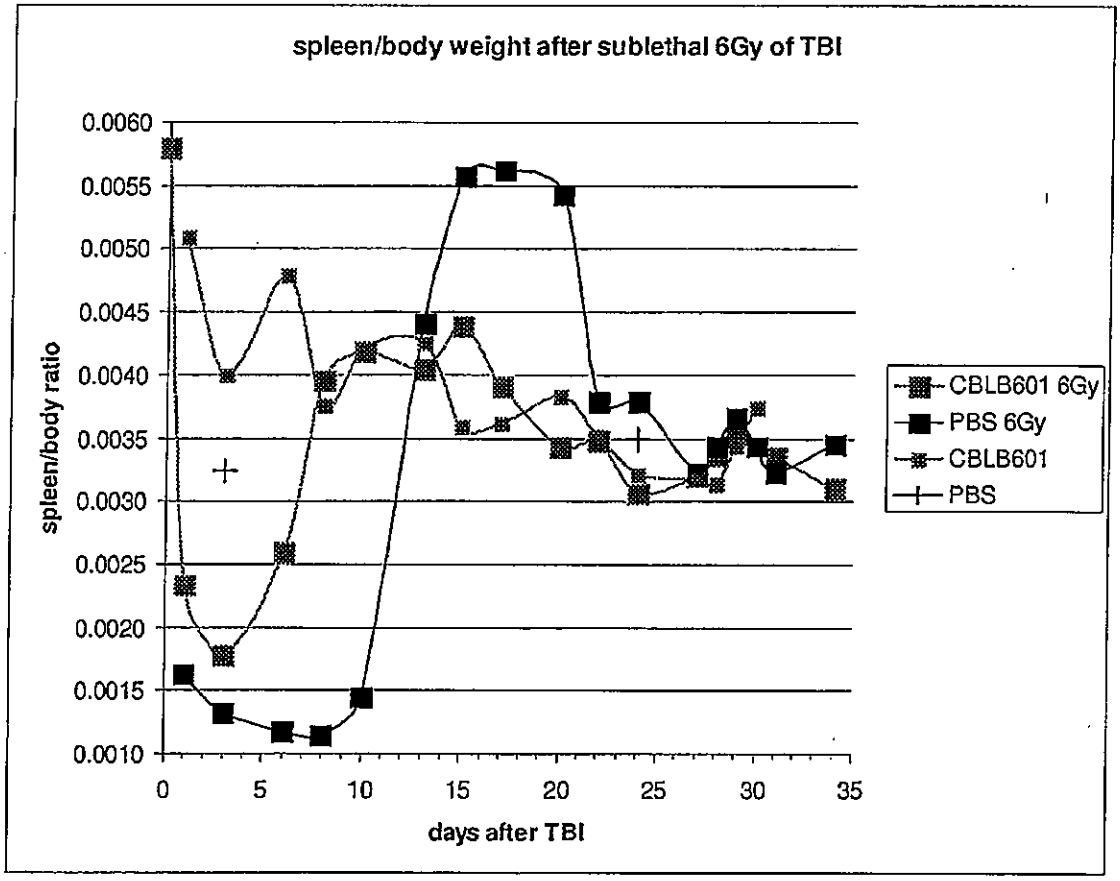

spleen/body weight after sublethal 6Gy of TBI
spleen/body ratio
0.0060
0.0055
0.0050
0.0045
0.0040
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0
5
10
15
20
25
30
35
days after TBI
CBLB601 6Gy
PBS 6Gy
CBLB601
PBS

FIGURE 3

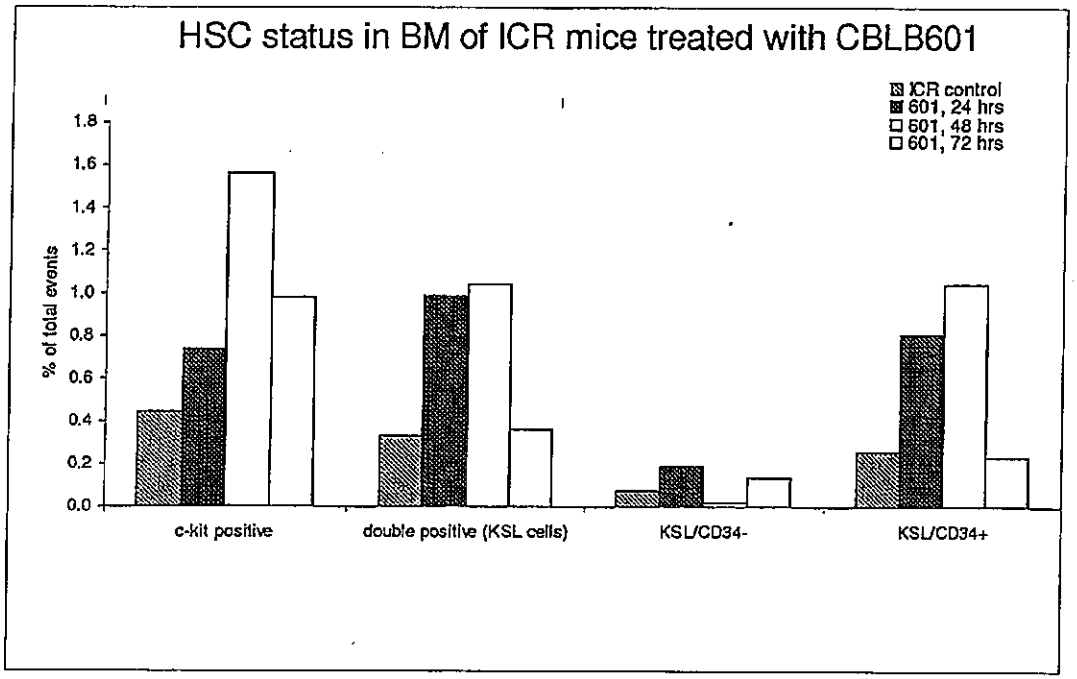

HSC status in BM of ICR mice treated with CBLB601
ICR control
601, 24 hrs
601, 48 hrs
601, 72 hrs
% of total events
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
c-kit positive
double positive (KSL cells)
KSL/CD34-
KSL/CD34+

FIGURE 4

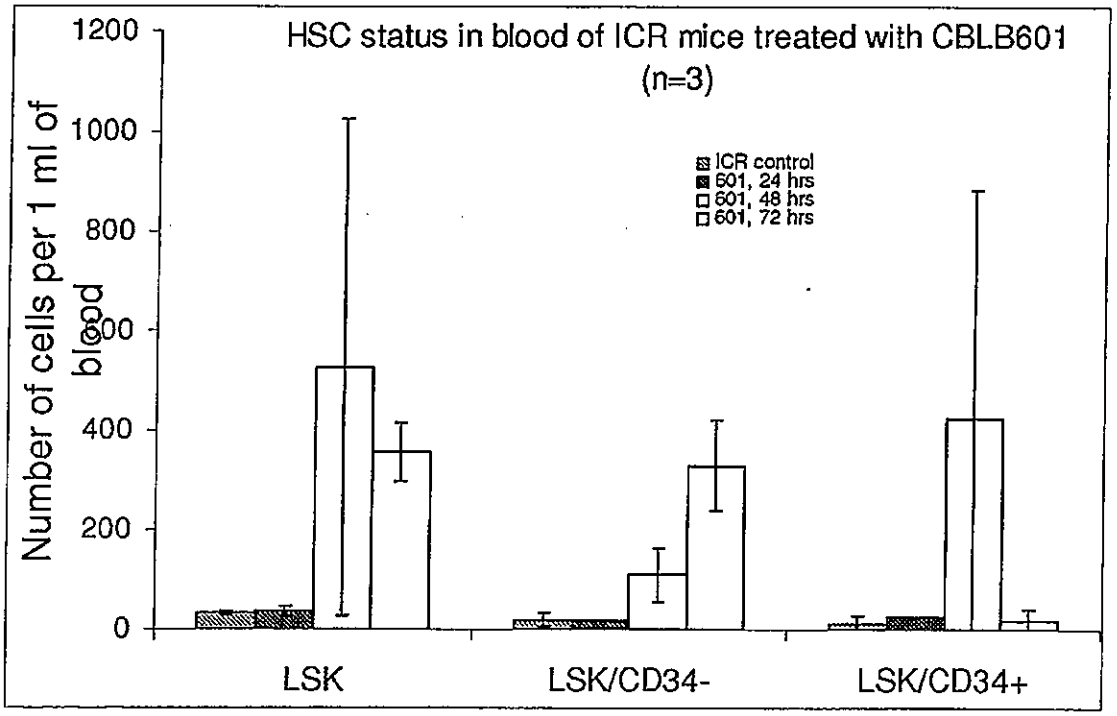

HSC status in blood of ICR mice treated with CBLB601
(n=3)
Number of cells per 1 ml of blood
1200
1000
800
600
400
200
0
ICR control
601, 24 hrs
601, 48 hrs
601, 72 hrs
LSK
LSK/CD34-
LSK/CD34+

FIGURE 5

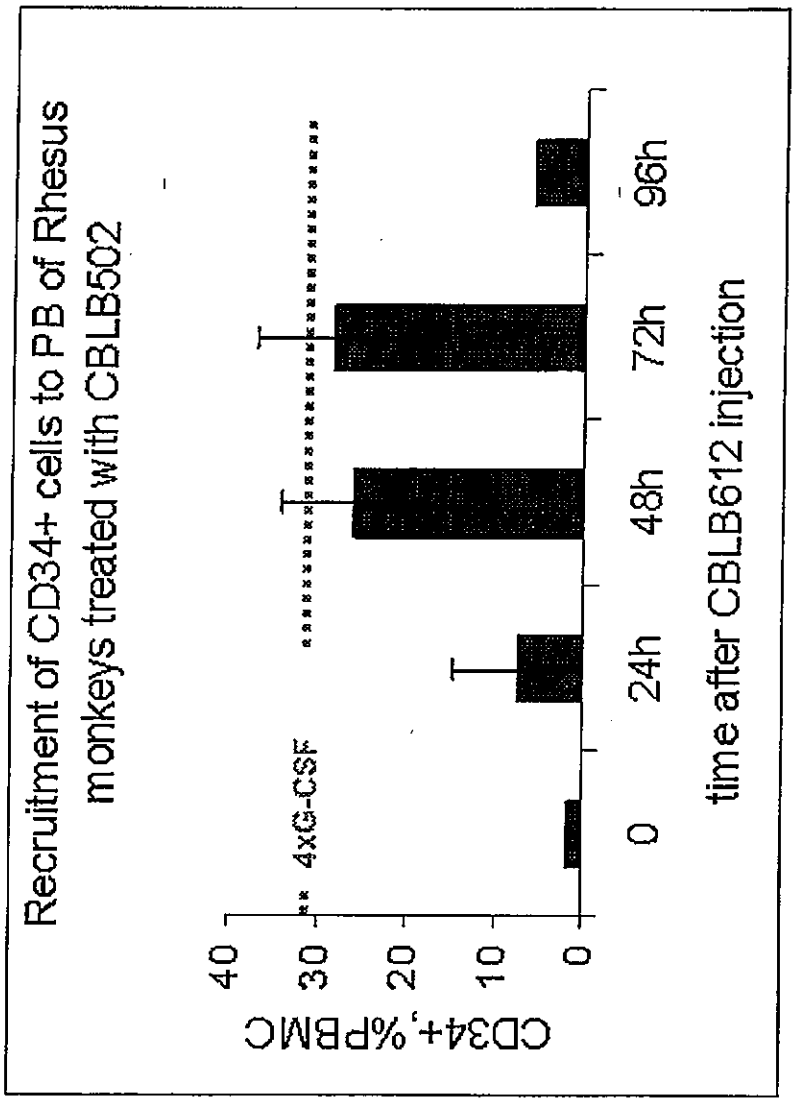
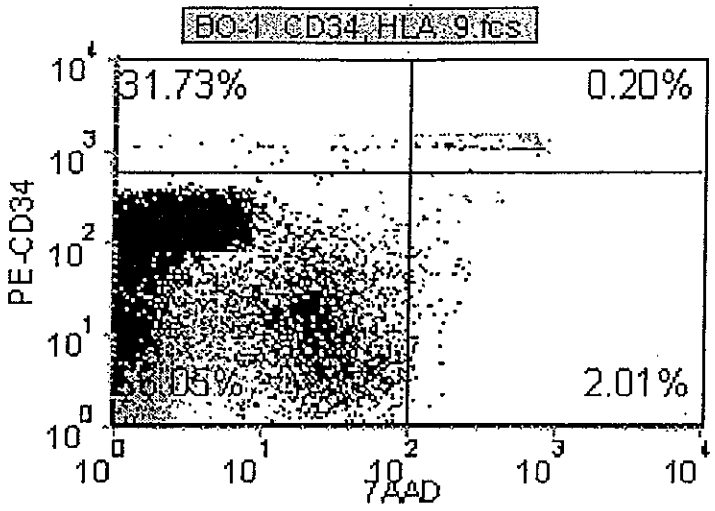

Recruitment of CD34+ cells to PB of Rhesus monkeys treated with CBLB502
CD34+,%PBMC
40
30
20
10
0
** 4xG-CSF
0
24h
48h
72h
96h
time after CBLB612 injection

Figure 6

A. Day (24 h post treatment)



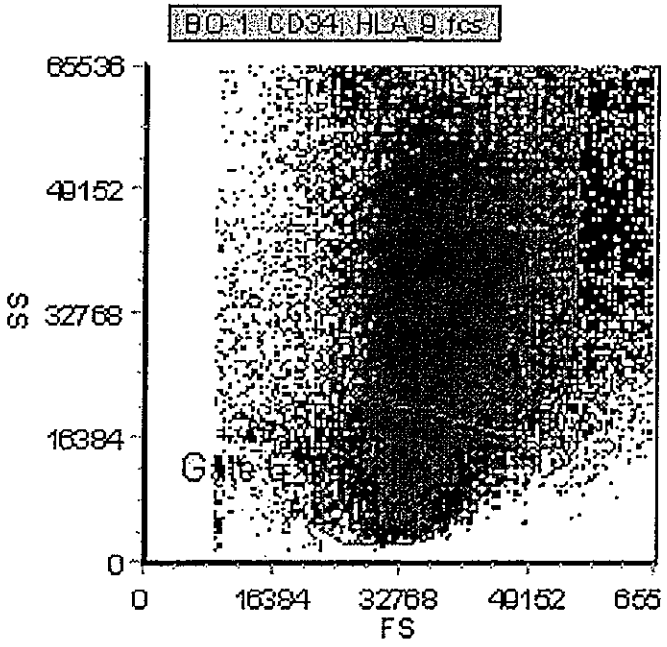
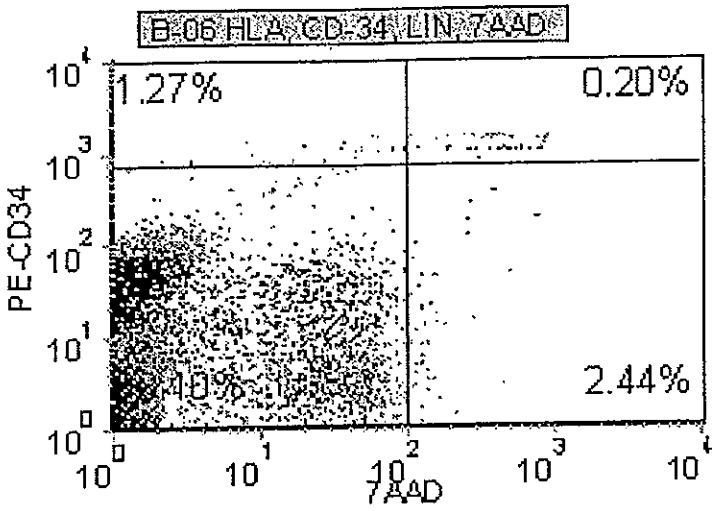


Figure 6 (Continued)

A'. Day 2 (24 h post treatment)



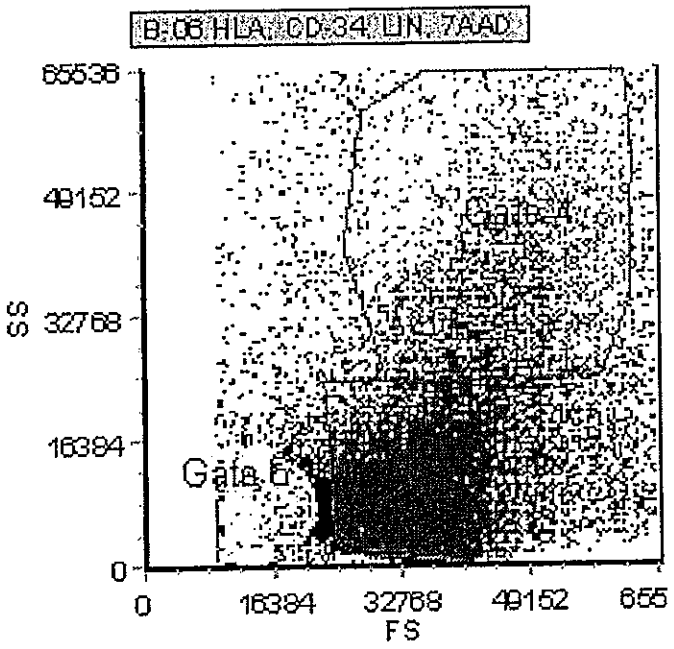
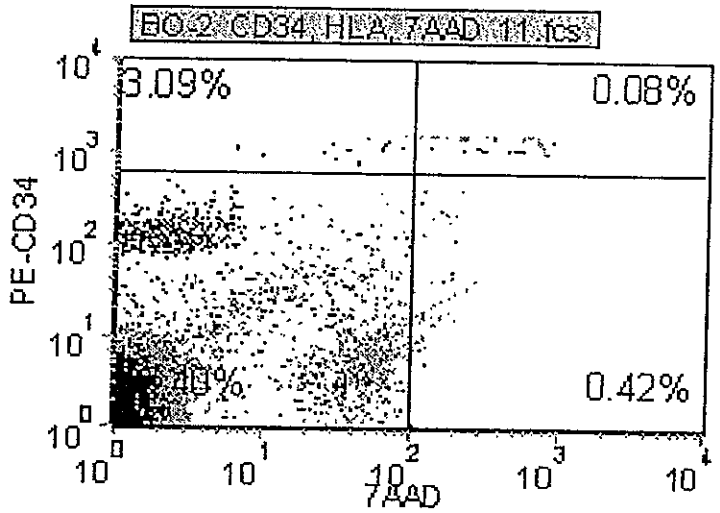


Figure 6 (Continued)

A". Day 2 (24 h post treatment)



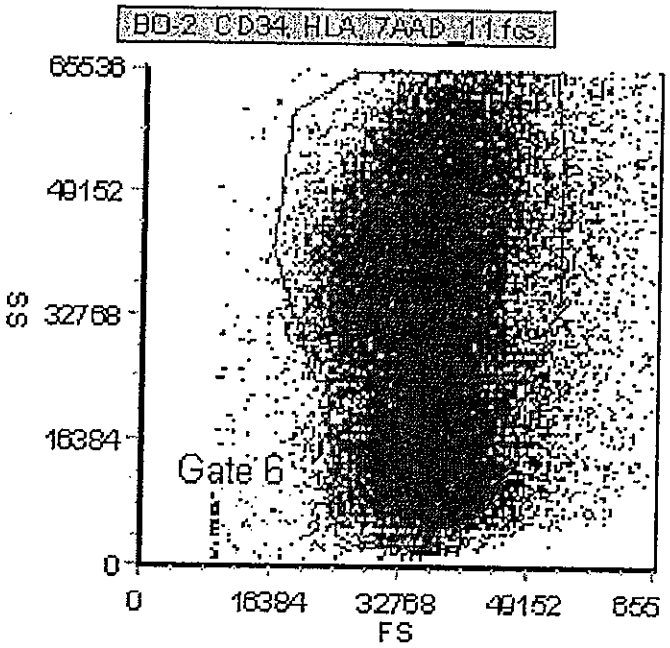
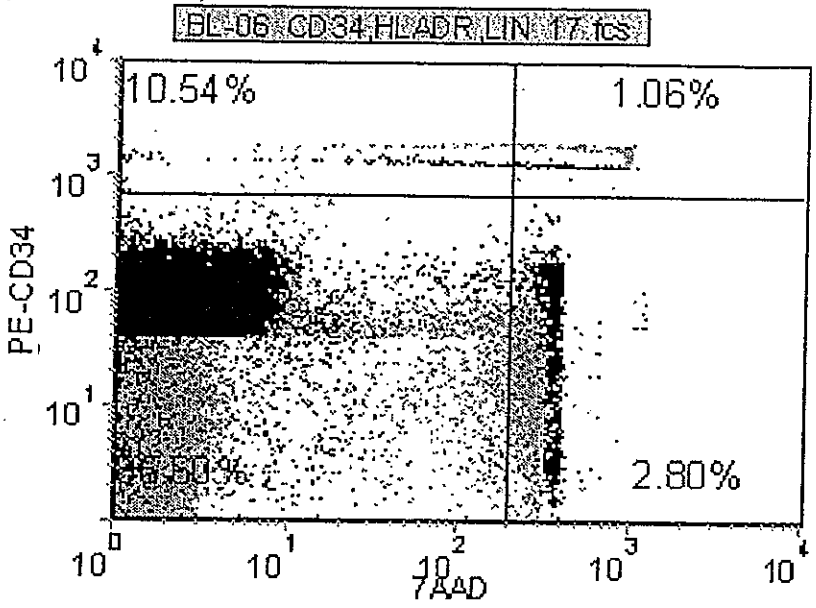


Figure 6 (Continued)

B. Day 3 (48 h post treatment)



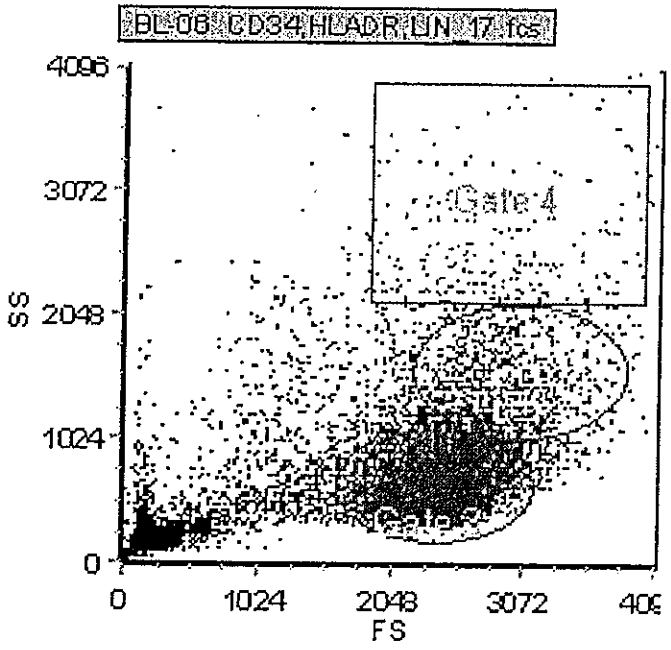
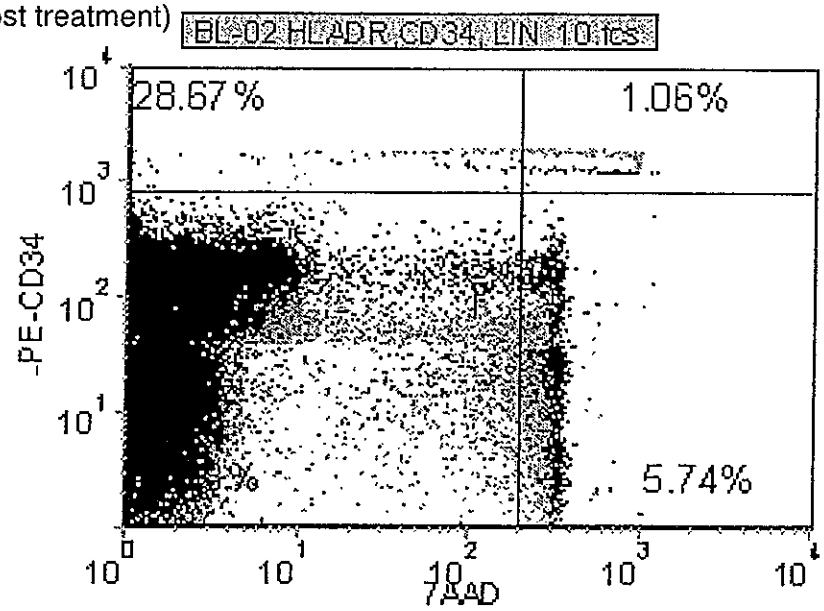


Figure 6 (Continued)

B'. Day 3 (48 h post treatment)



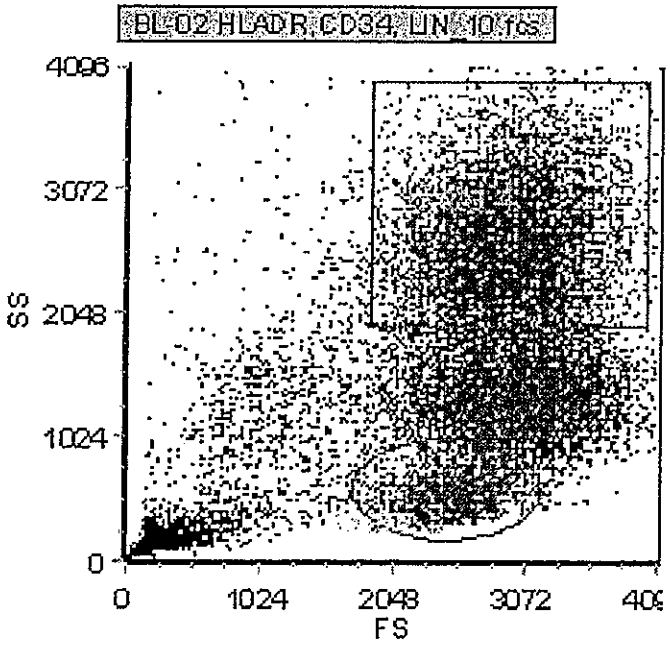


Figure 6 (Continued)

C. Day 4 (72 h post treatment)

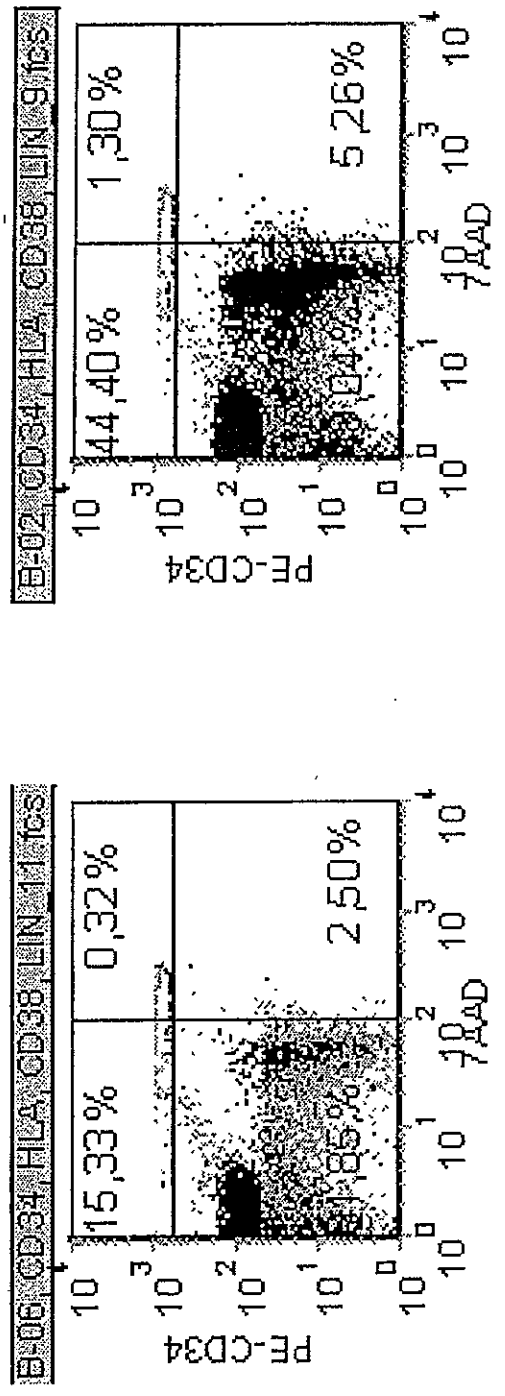
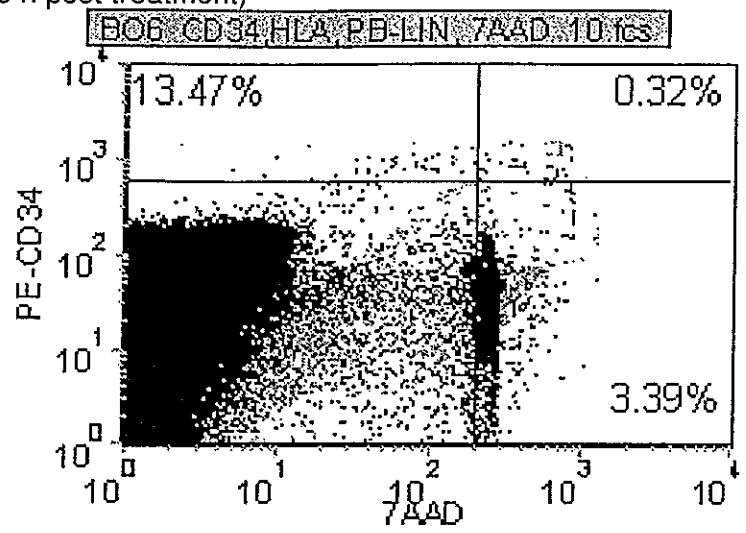


Figure 6 (Continued)

D. Day 5 (96 h post treatment)



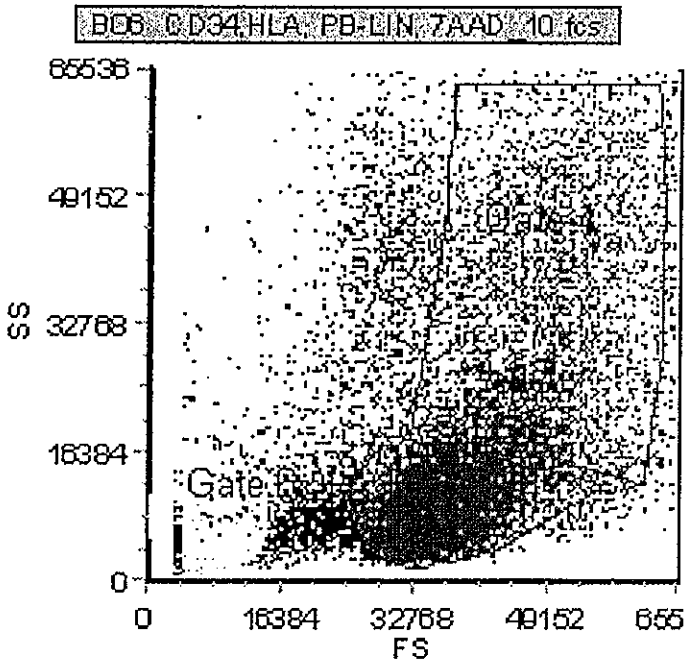
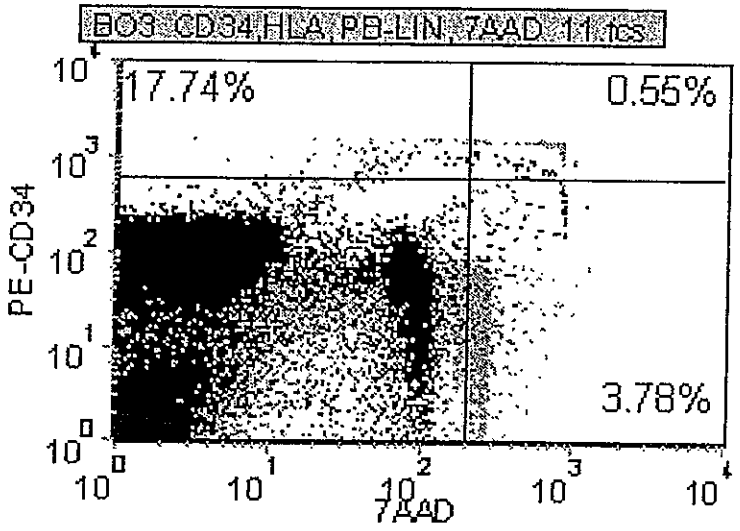


Figure 6 (Continued)

D'. Day 5 (96 h post treatment)



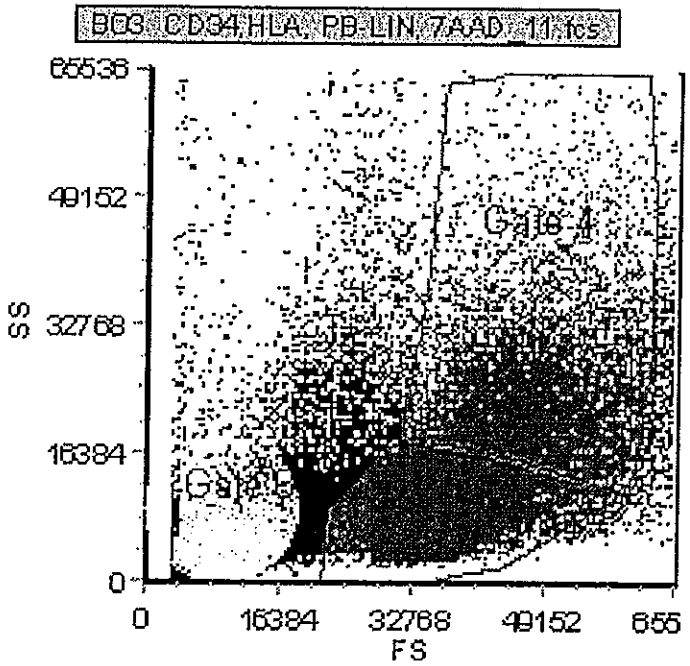


FIGURE 7.

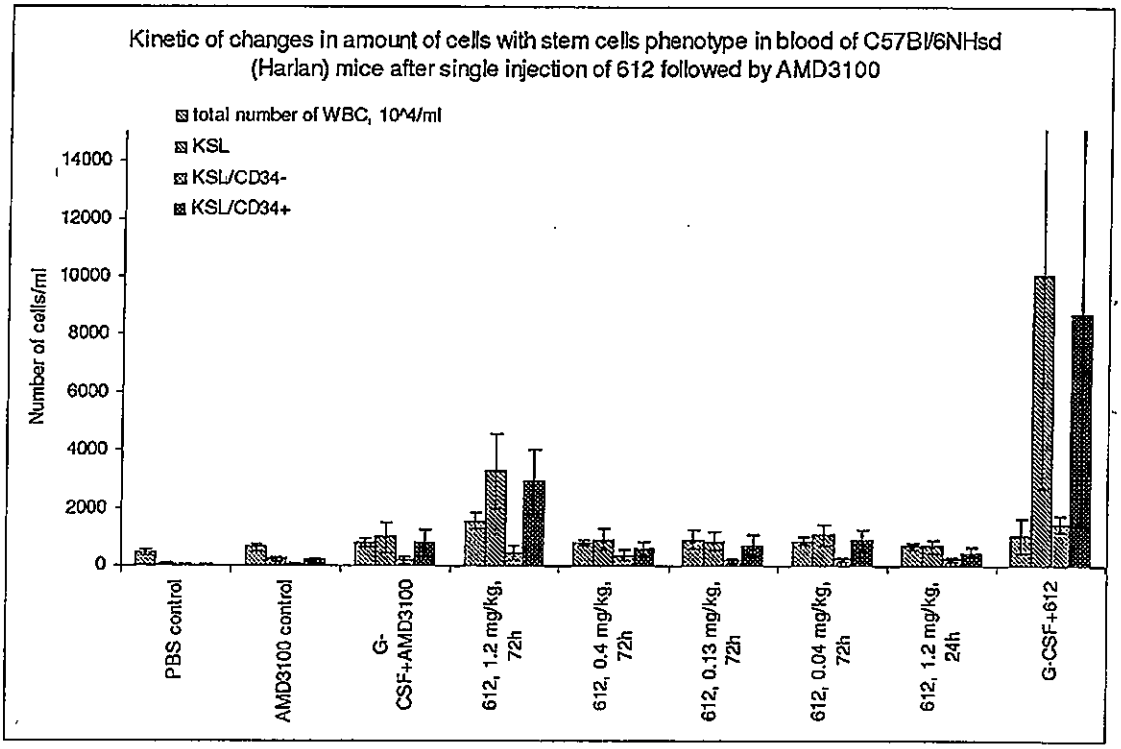

Kinetic of changes in amount of cells with stem cells phenotype in blood of C57Bl/6NHsd (Harlan) mice after single injection of 612 followed by AMD3100
total number of WBC, 10^4/ml
KSL
KSL/CD34-
KSL/CD34+
Number of cells/ml
14000
12000
10000
8000
6000
4000
2000
0
PBS control
AMD3100 control
G-CSF+AMD3100
612, 1.2 mg/kg, 72h
612, 0.4 mg/kg, 72h
612, 0.13 mg/kg, 72h
612, 0.04 mg/kg, 72h
612, 1.2 mg/kg, 24h
G-CSF+612

FIGURE 8.

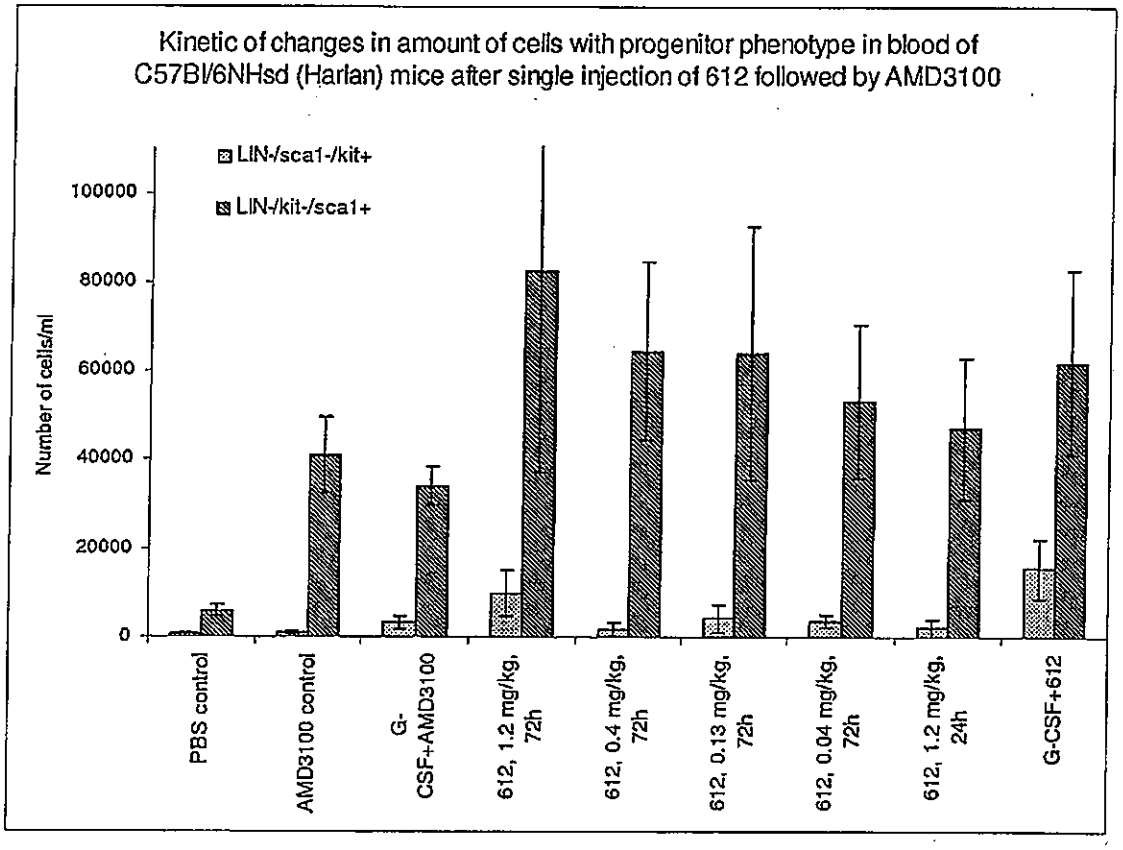

Kinetic of changes in amount of cells with progenitor phenotype in blood of C57Bl/6NHsd (Harlan) mice after single injection of 612 followed by AMD3100
LIN-/sca1-/kit+
LIN-/kit-/sca1+
Number of cells/ml
100000
80000
60000
40000
20000
0
PBS control
AMD3100 control
G-CSF+AMD3100
612, 1.2 mg/kg, 72h
612, 0.4 mg/kg, 72h
612, 0.13 mg/kg, 72h
612, 0.04 mg/kg, 72h
612, 1.2 mg/kg, 24h
G-CSF+612

FIGURE 9.

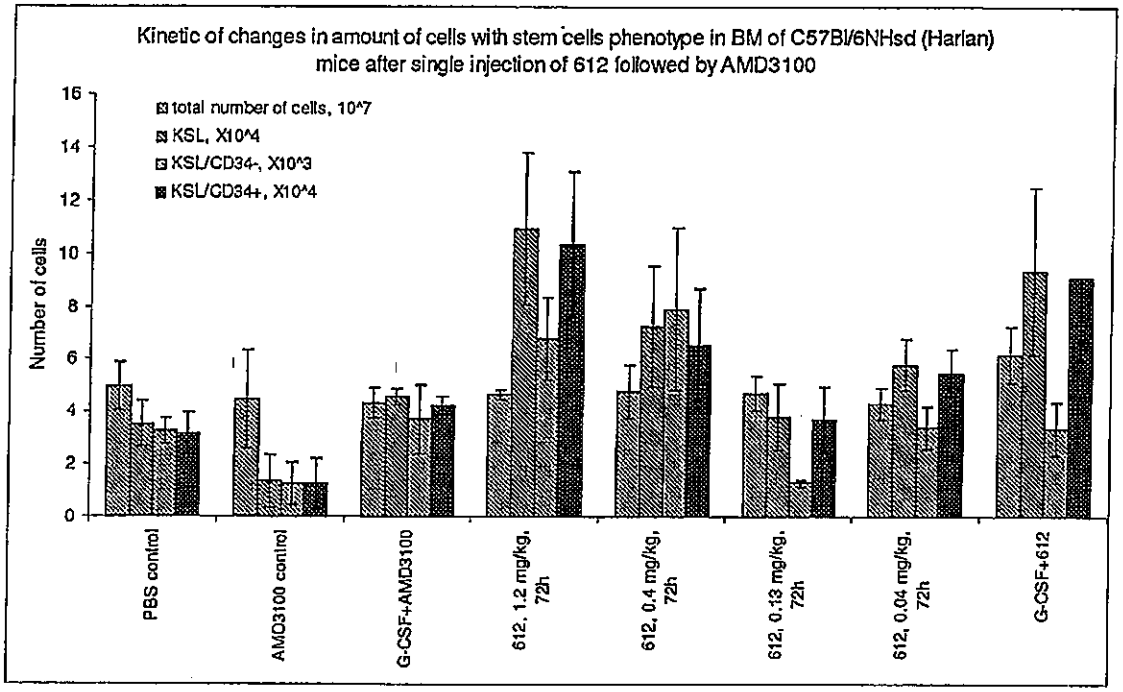

Kinetic of changes in amount of cells with stem cells phenotype in BM of C57Bl/6NHsd (Harlan) mice after single injection of 612 followed by AMD3100
total number of cells, 10^7
KSL, X10^4
KSL/CD34-, X10^3
KSL/CD34+, X10^4
Number of cells
0
2
4
6
8
10
12
14
16
PBS control
AMD3100 control
G-CSF+AMD3100
612, 1.2 mg/kg, 72h
612, 0.4 mg/kg, 72h
612, 0.13 mg/kg, 72h
612, 0.04 mg/kg, 72h
G-CSF+612

FIGURE 10.

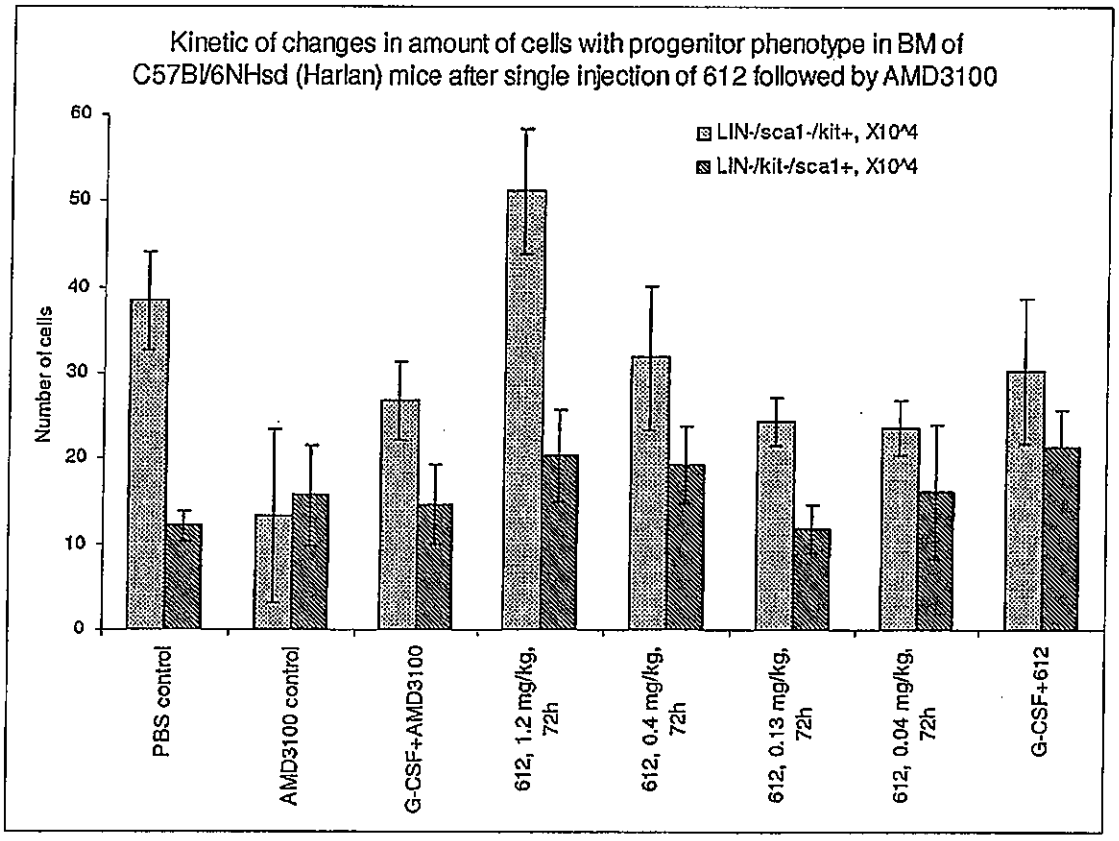

Kinetic of changes in amount of cells with progenitor phenotype in BM of C57Bl/6NHsd (Harlan) mice after single injection of 612 followed by AMD3100
LIN-/sca1-/kit+, X10^4
LIN-/kit-/sca1+, X10^4
Number of cells
60
50
40
30
20
10
0
PBS control
AMD3100 control
G-CSF+AMD3100
612, 1.2 mg/kg, 72h
612, 0.4 mg/kg, 72h
612, 0.13 mg/kg, 72h
612, 0.04 mg/kg, 72h
G-CSF+612

FIGURE 11.

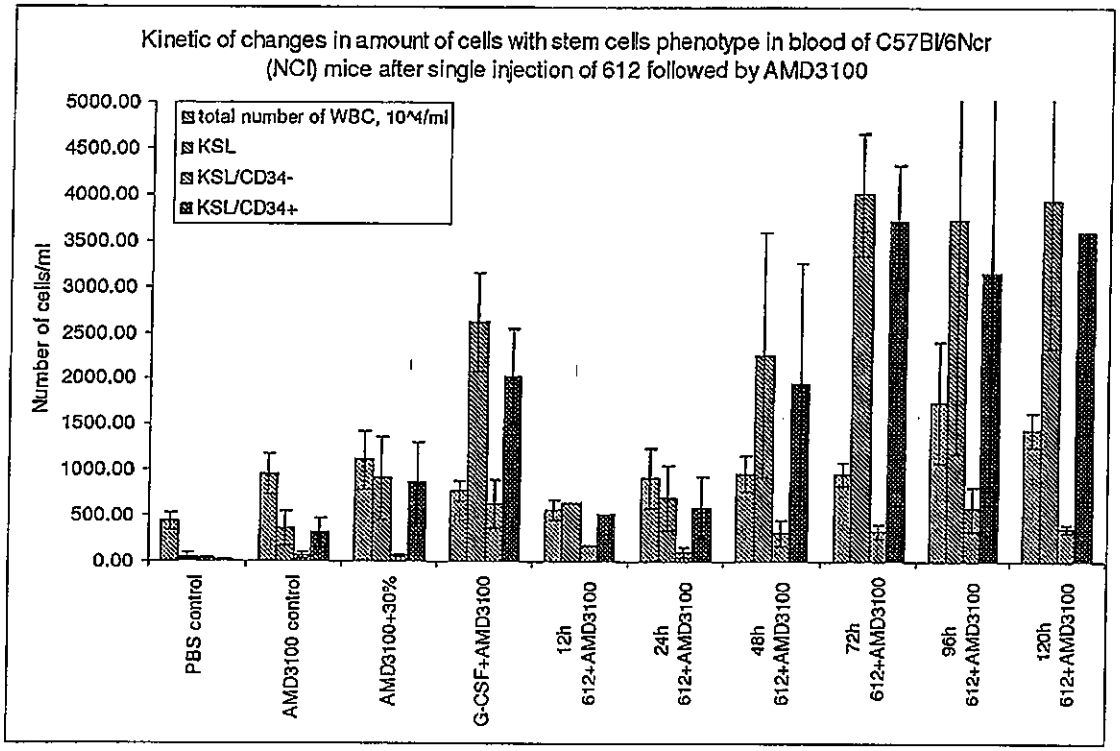

Kinetic of changes in amount of cells with stem cells phenotype in blood of C57Bl/6Ncr (NCI) mice after single injection of 612 followed by AMD3100
total number of WBC, 10^4/ml
KSL
KSL/CD34-
KSL/CD34+
Number of cells/ml
5000.00
4500.00
4000.00
3500.00
3000.00
2500.00
2000.00
1500.00
1000.00
500.00
0.00
PBS control
AMD3100 control
AMD3100+30%
G-CSF+AMD3100
12h 612+AMD3100
24h 612+AMD3100
48h 612+AMD3100
72h 612+AMD3100
96h 612+AMD3100
120h 612+AMD3100

FIGURE 12.

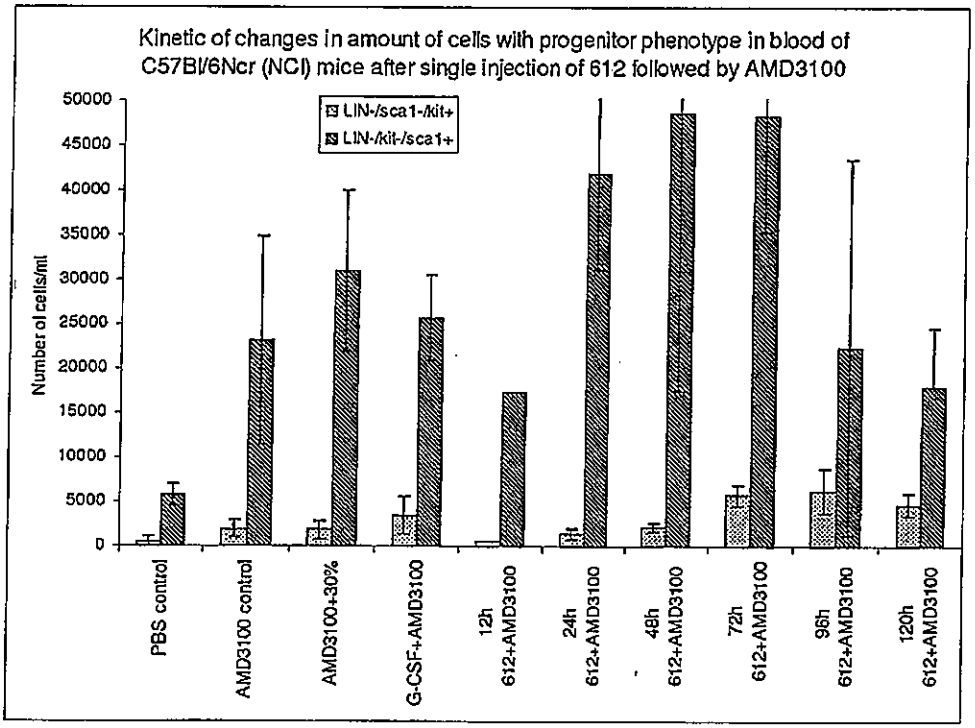

Kinetic of changes in amount of cells with progenitor phenotype in blood of C57Bl/6Ncr (NCI) mice after single injection of 612 followed by AMD3100
LIN-/sca1-/kit+
LIN-/kit-/sca1+
Number of cells/ml
50000
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
PBS control
AMD3100 control
AMD3100+30%
G-CSF+AMD3100
12h 612+AMD3100
24h 612+AMD3100
48h 612+AMD3100
72h 612+AMD3100
96h 612+AMD3100
120h 612+AMD3100

FIGURE 13.

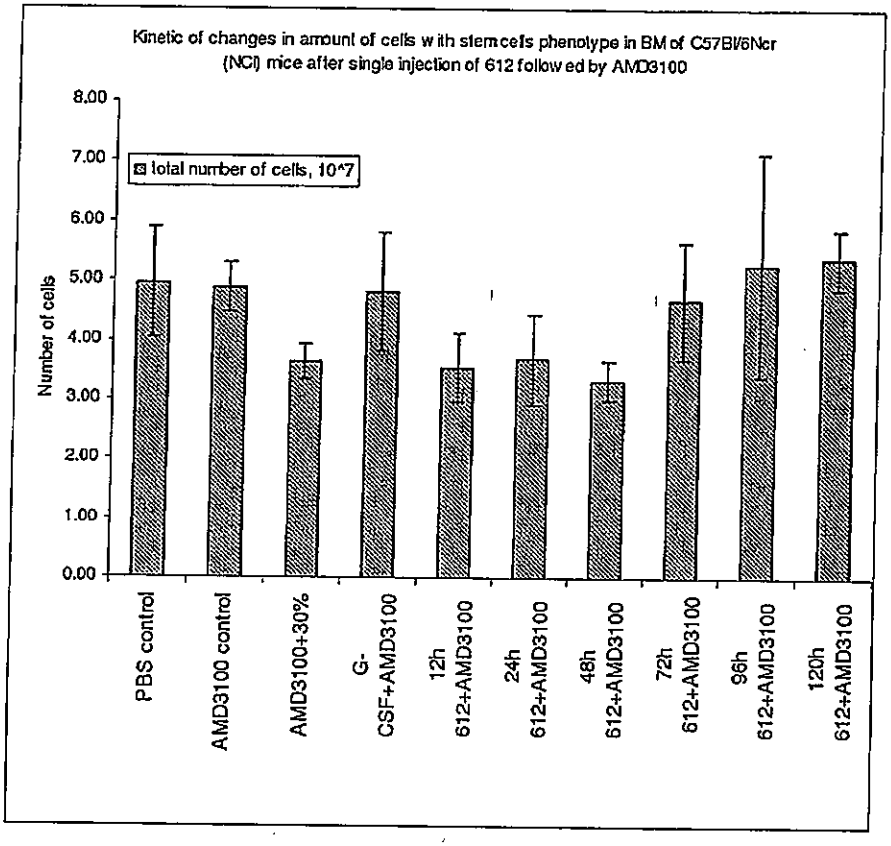

Kinetic of changes in amount of cells with stem cells phenotype in BM of C57Bl/6Ncr (NCI) mice after single injection of 612 followed by AMD3100
total number of cells, 10^7
Number of cells
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
PBS control
AMD3100 control
AMD3100+30%
G-CSF+AMD3100
12h 612+AMD3100
24h 612+AMD3100
48h 612+AMD3100
72h 612+AMD3100
96h 612+AMD3100
120h 612+AMD3100

FIGURE 14.

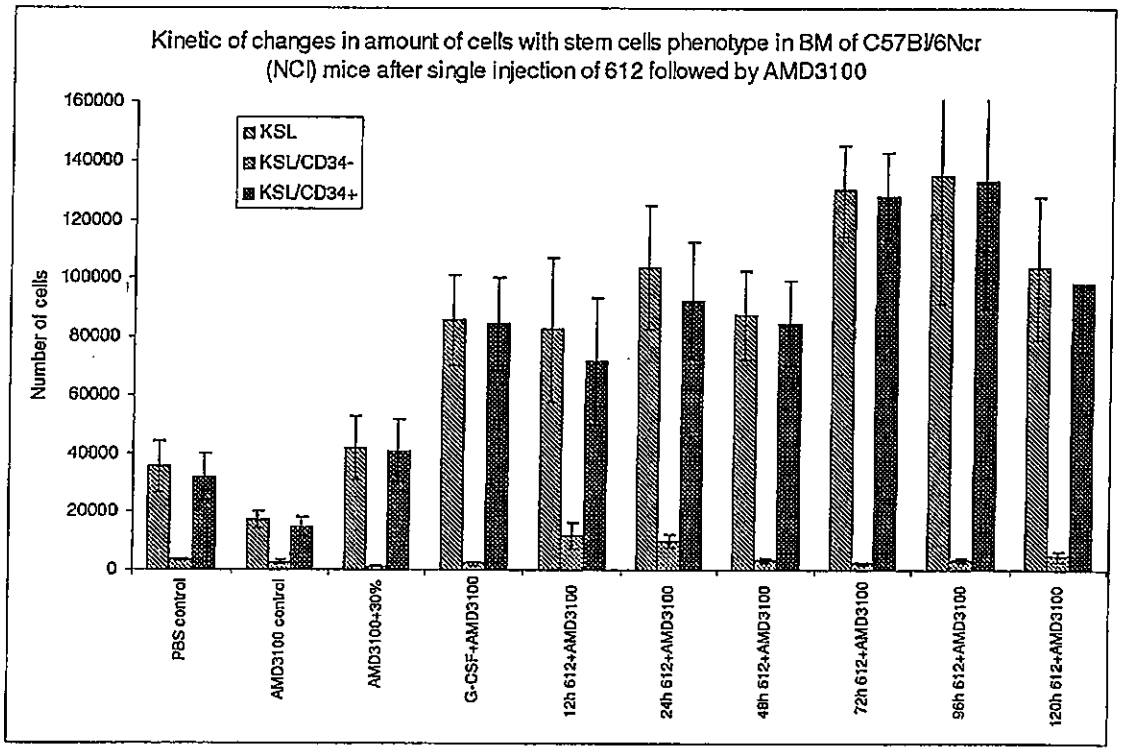
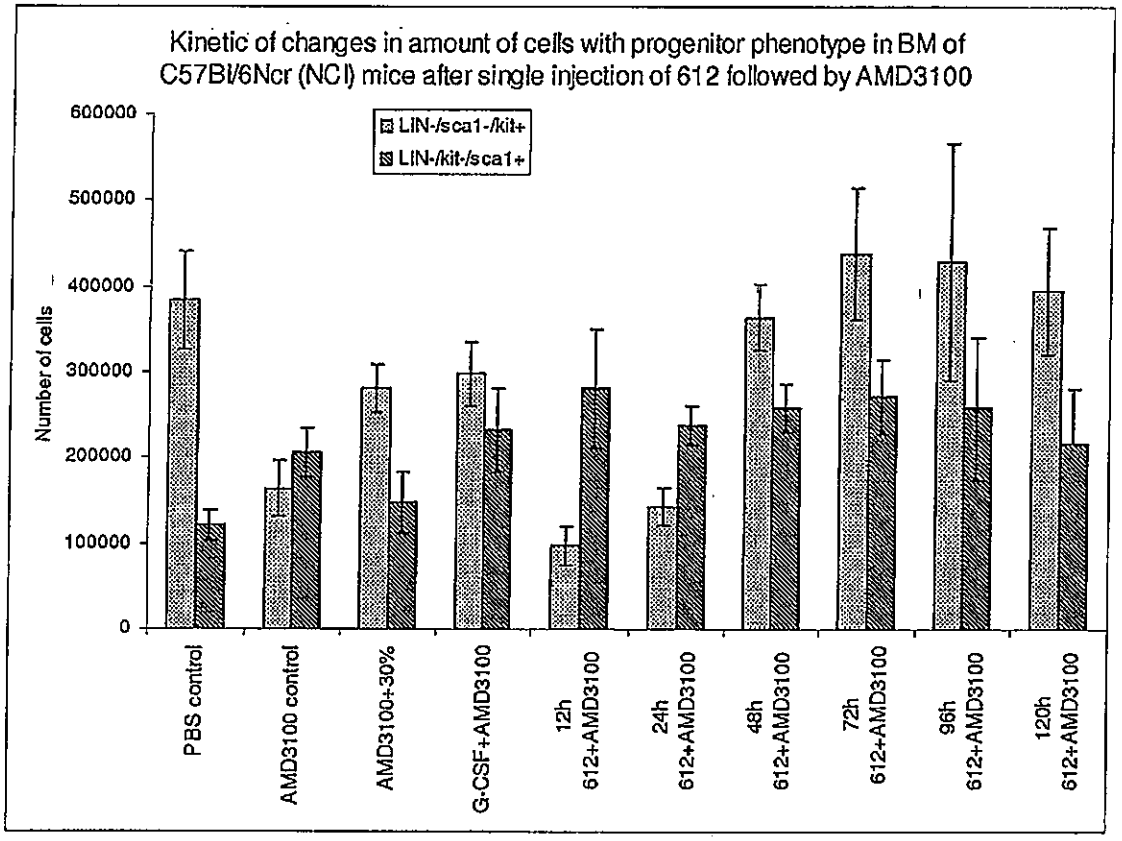

Kinetic of changes in amount of cells with stem cells phenotype in BM of C57Bl/6Ncr (NCI) mice after single injection of 612 followed by AMD3100
KSL
KSL/CD34-
KSL/CD34+
Number of cells
160000
140000
120000
100000
80000
60000
40000
20000
0
PBS control
AMD3100 control
AMD3100+30%
G-CSF+AMD3100
12h 612+AMD3100
24h 612+AMD3100
48h 612+AMD3100
72h 612+AMD3100
96h 612+AMD3100
120h 612+AMD3100

FIGURE 15.


Kinetic of changes in amount of cells with progenitor phenotype in BM of C57Bl/6Ncr (NCI) mice after single injection of 612 followed by AMD3100
LIN-/sca1-/kit+
LIN-/kit-/sca1+
Number of cells
600000
500000
400000
300000
200000
100000
0
PBS control
AMD3100 control
AMD3100+30%
G-CSF+AMD3100
12h 612+AMD3100
24h 612+AMD3100
48h 612+AMD3100
72h 612+AMD3100
96h 612+AMD3100
120h 612+AMD3100