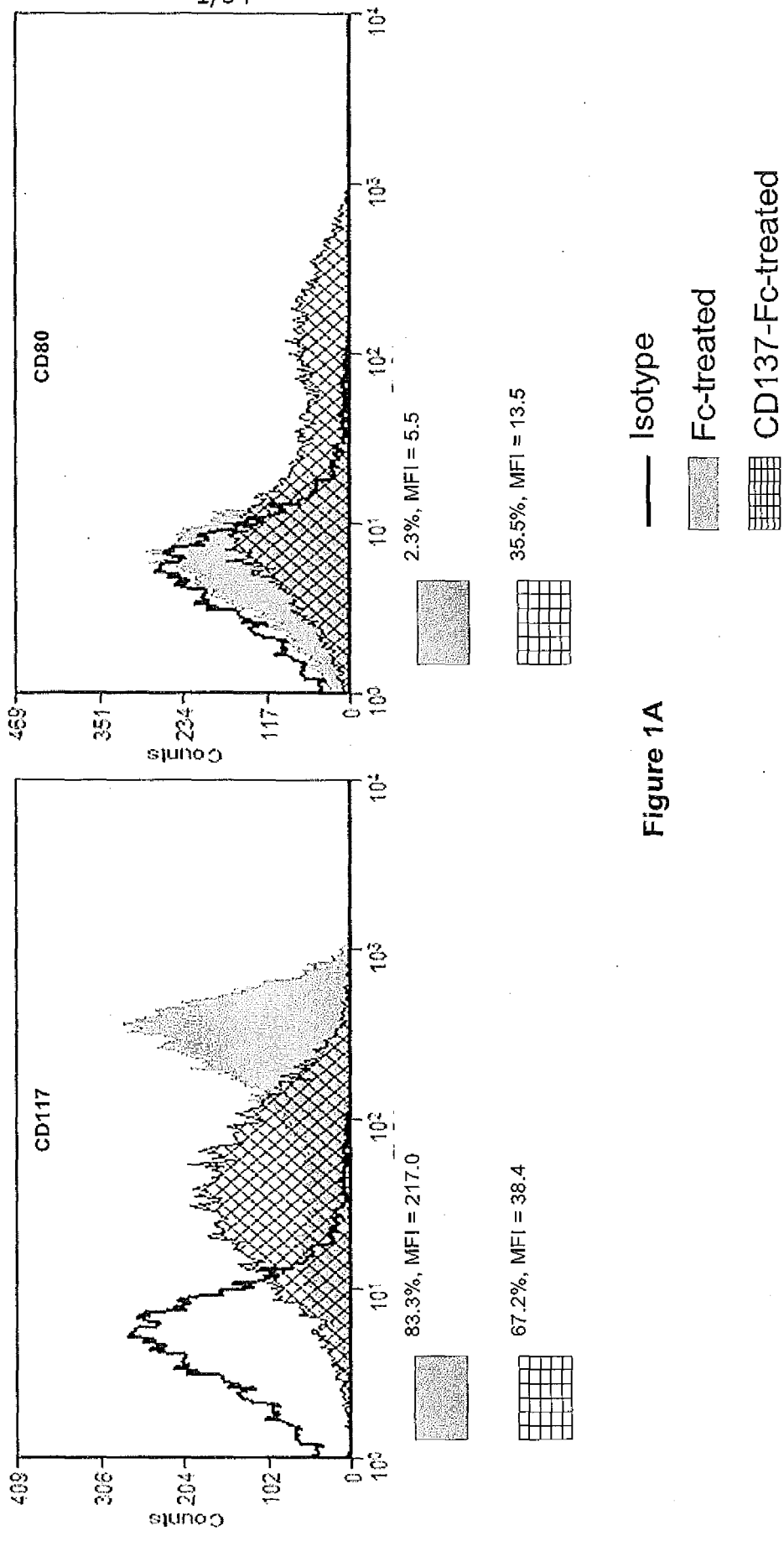

CD80
Counts
469
351
234
117
0
10^0
10^1
10^2
10^3
10^4
2.3%, MFI = 5.5
35.5%, MFI = 13.5
CD117
Counts
408
306
204
102
0
83.3%, MFI = 217.0
67.2%, MFI = 38.4
Isotype
Fc-treated
CD137-Fc-treated

Figure 1A

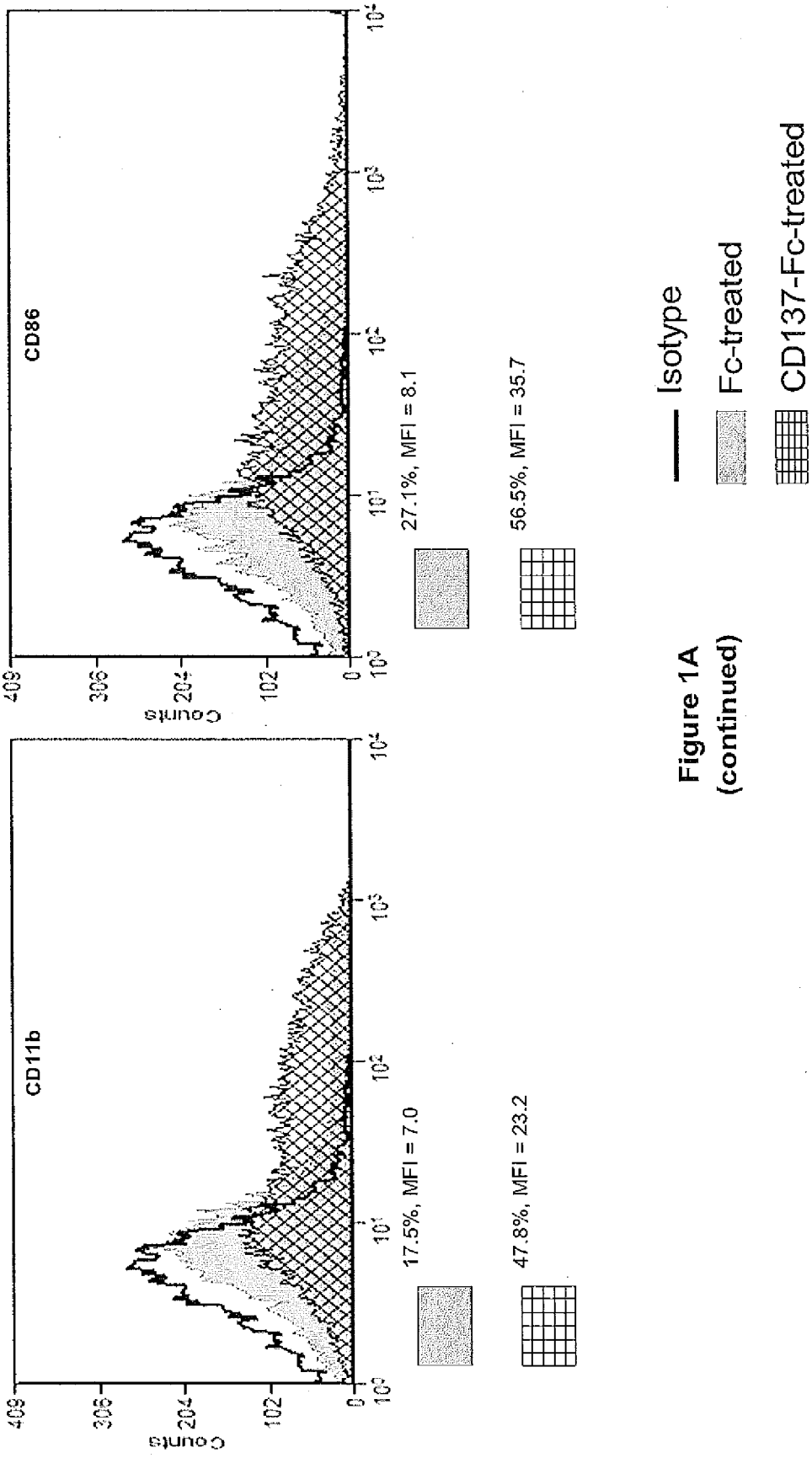


Figure 1A (continued)

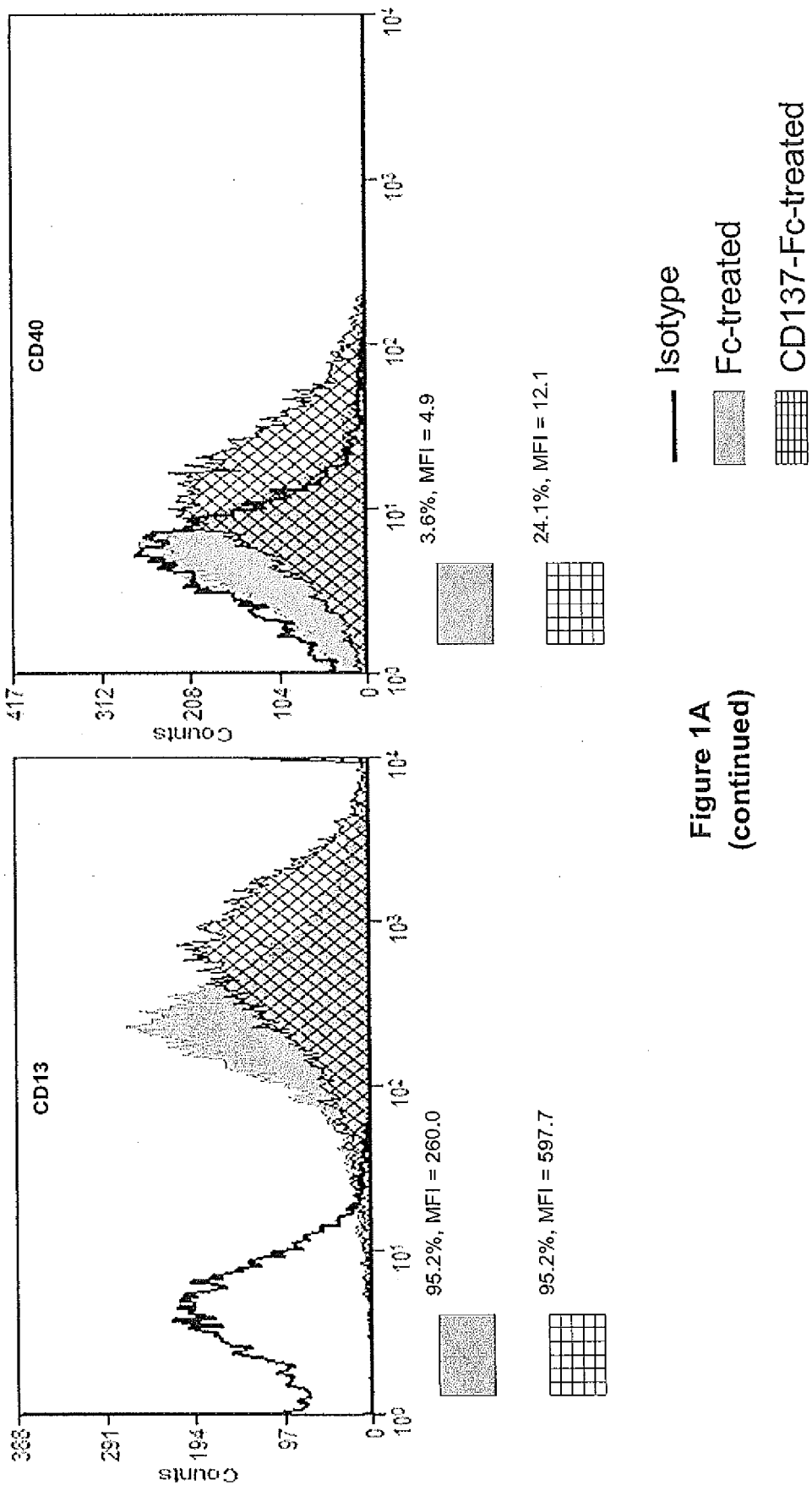


Figure 1A (continued)

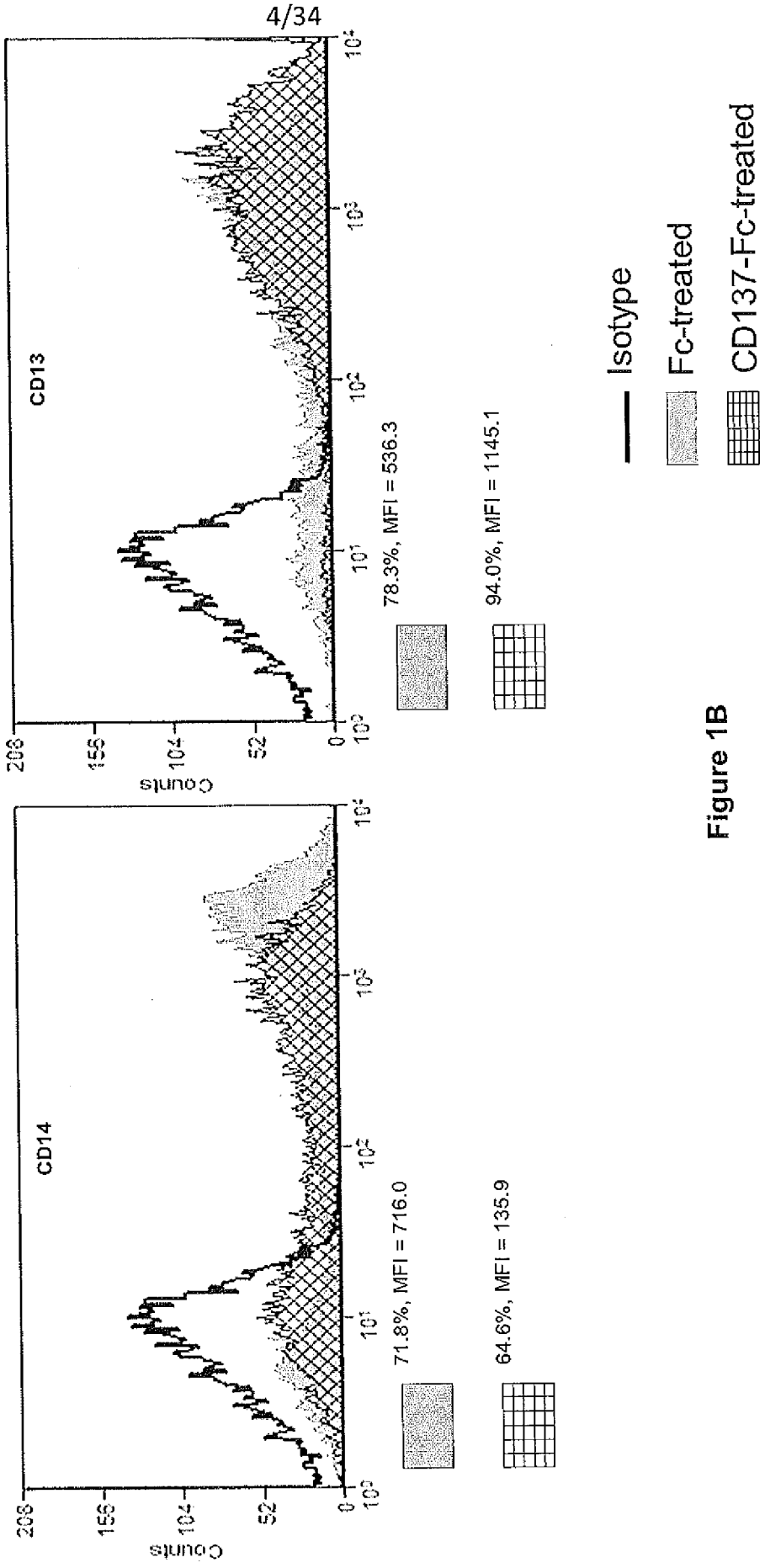

CD13
CD14
Counts
0
52
104
156
208
78.3%, MFI = 536.3
94.0%, MFI = 1145.1
71.8%, MFI = 716.0
64.6%, MFI = 135.9
Isotype
Fc-treated
CD137-Fc-treated

Figure 1B

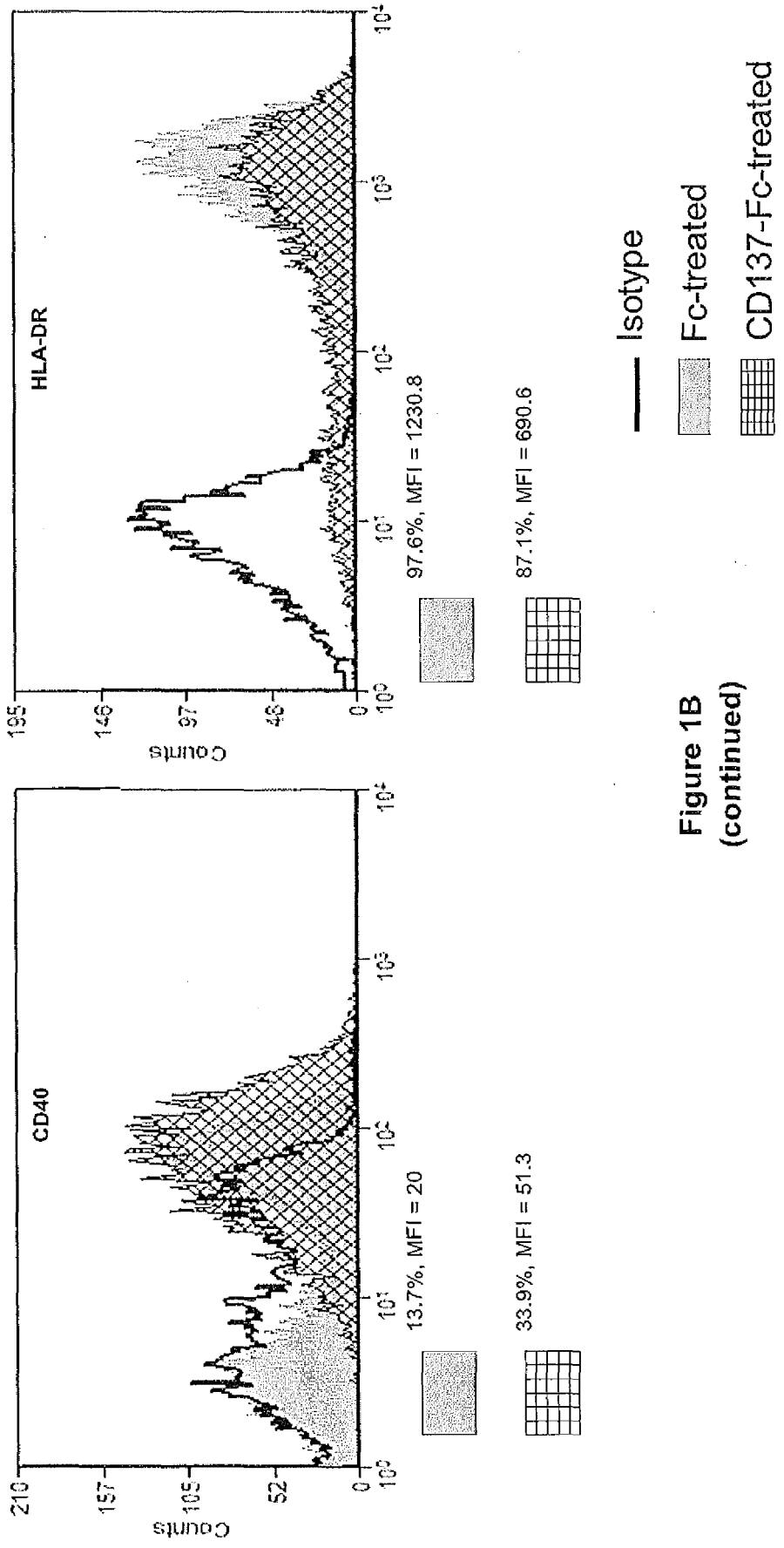


Figure 1B (continued)

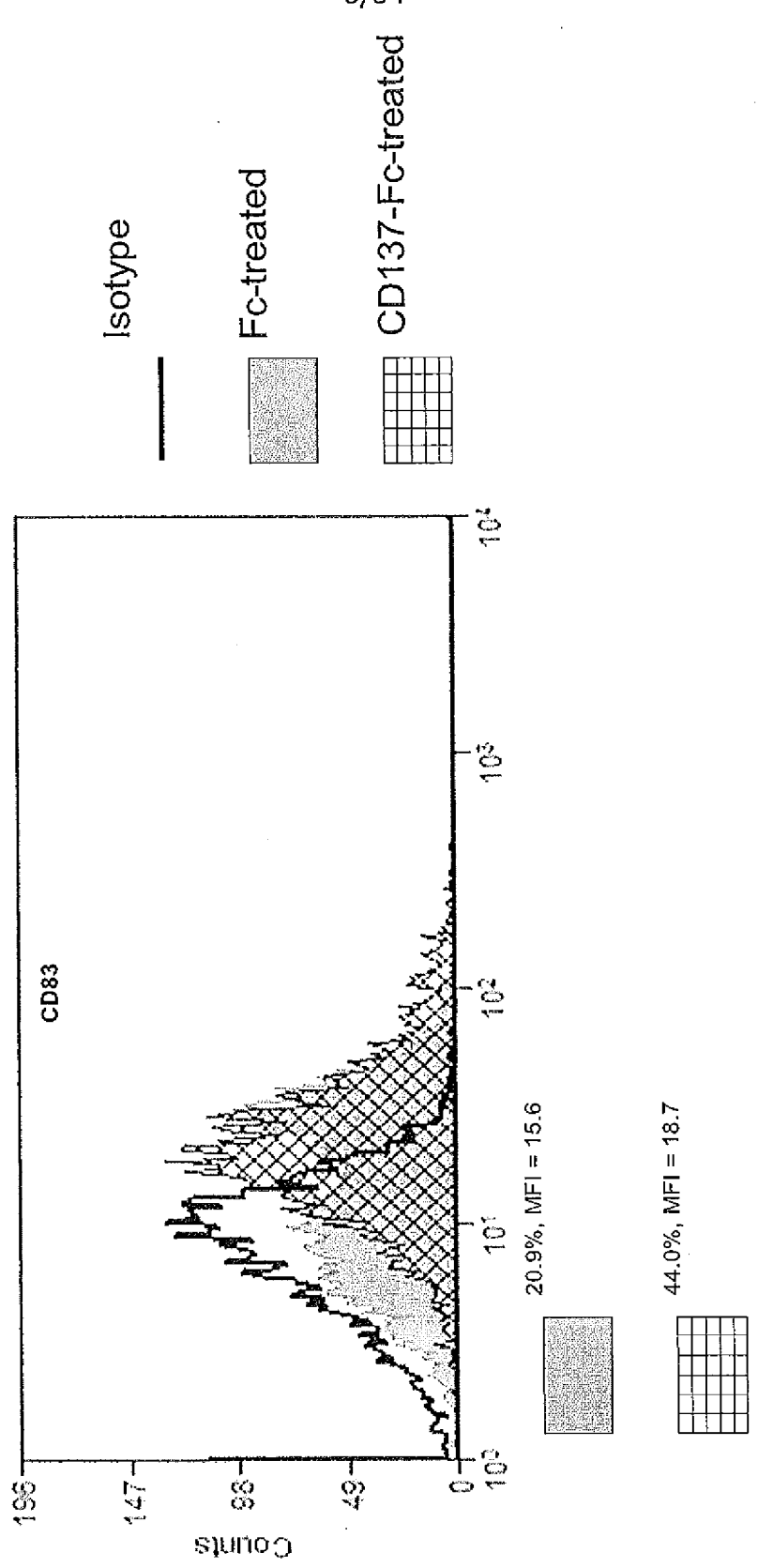


Figure 1B
(continued)

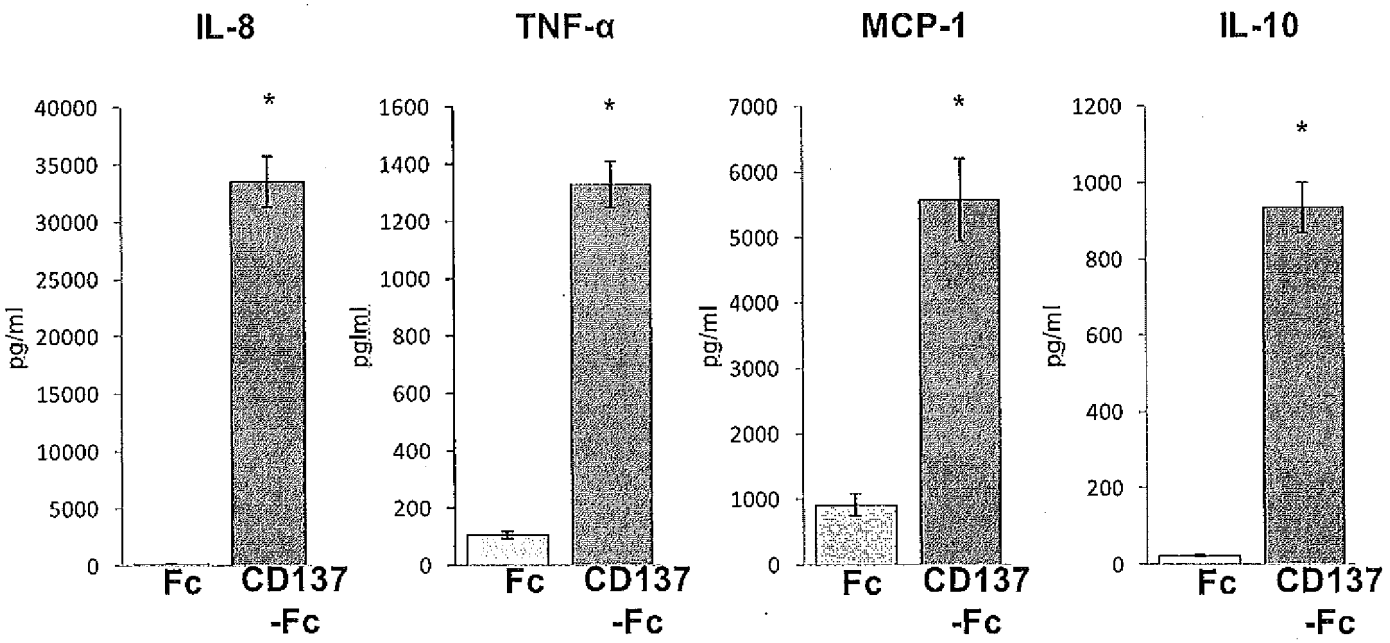

IL-8
TNF-α
MCP-1
IL-10
pg/ml
40000
35000
30000
25000
20000
15000
10000
5000
0
1600
1400
1200
1000
800
600
400
200
7000
6000
5000
4000
3000
2000
1000
Fc
CD137 -Fc
*

Figure 2

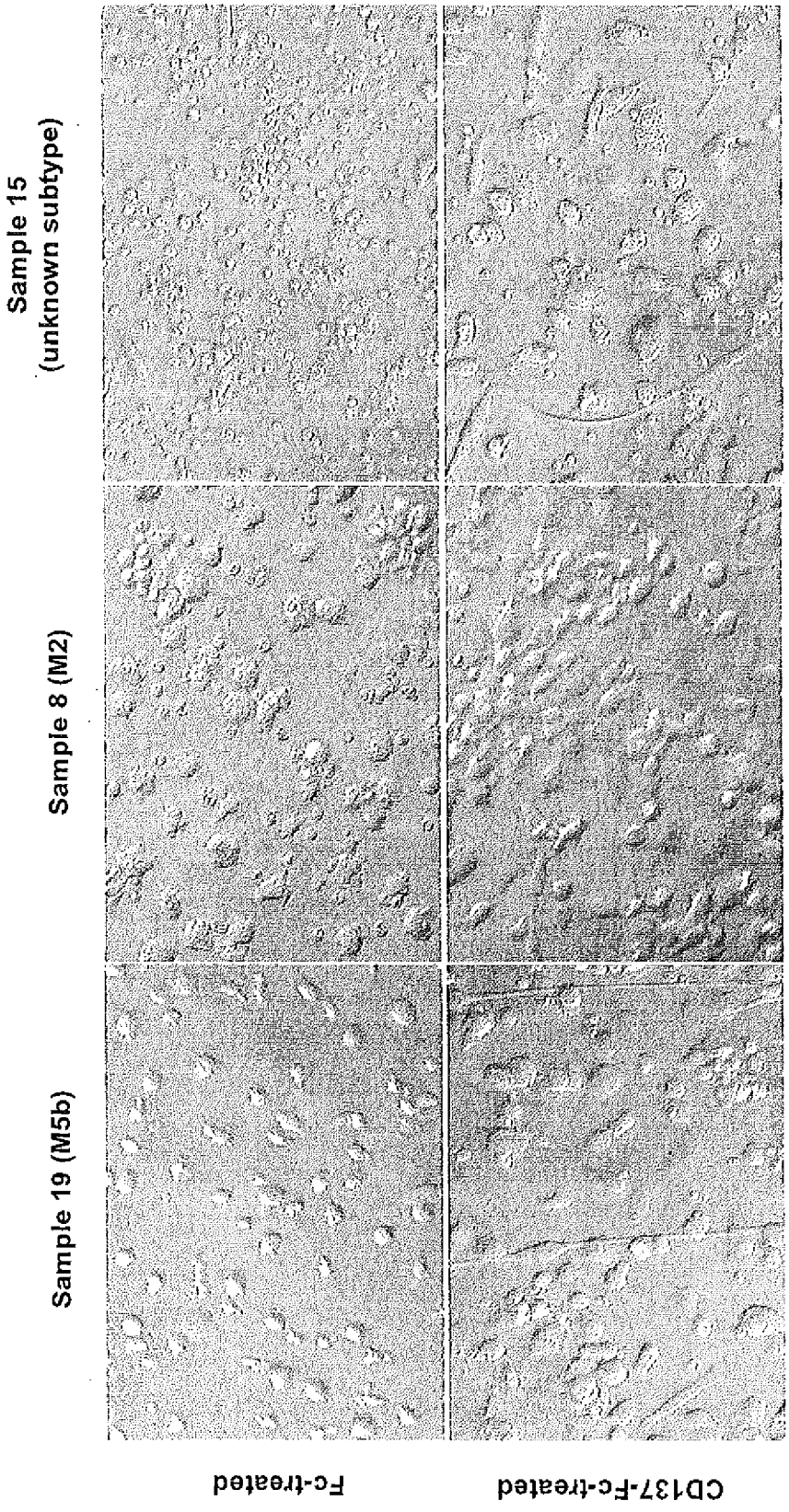

Sample 15
(unknown subtype)
Sample 8 (M2)
Sample 19 (M5b)
Fc-treated
CD137-Fc-treated

Figure 3

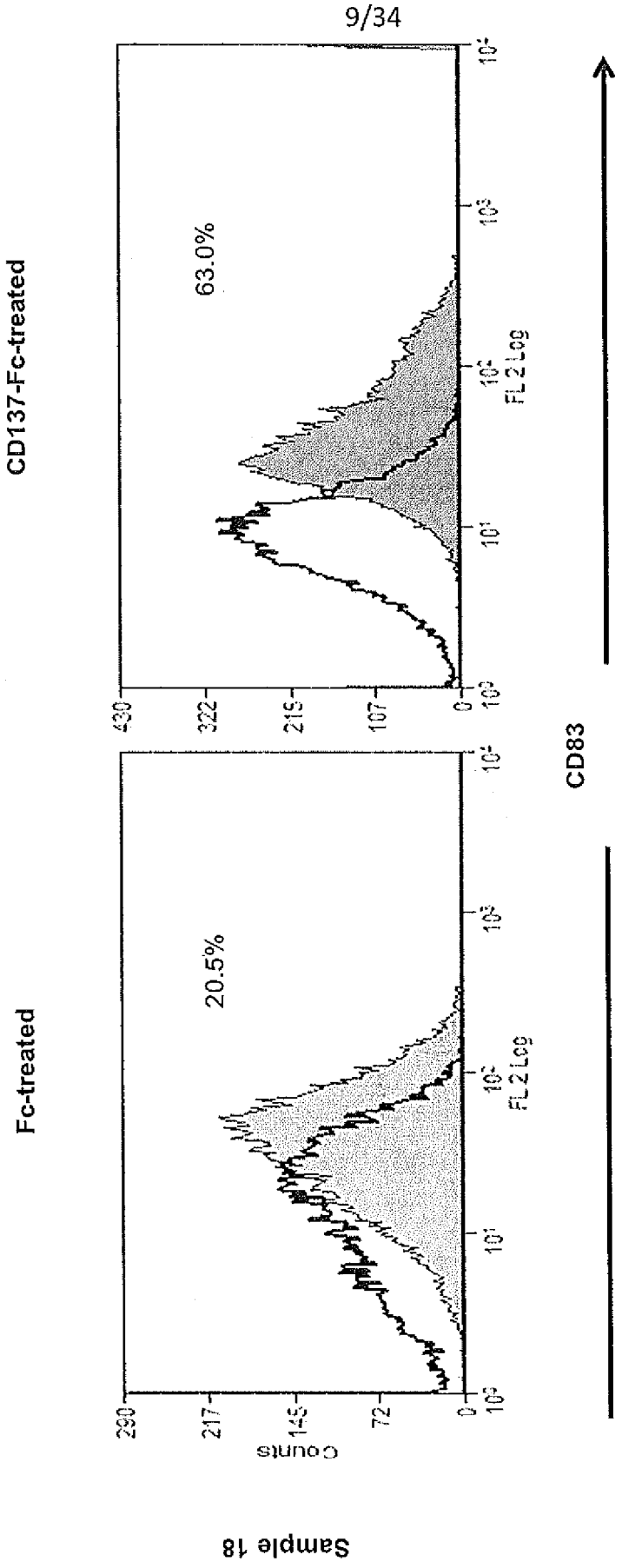

CD137-Fc-treated
63.0%
Fc-treated
20.5%
Counts
FL2 Log
CD83
Sample 18

Figure 4A

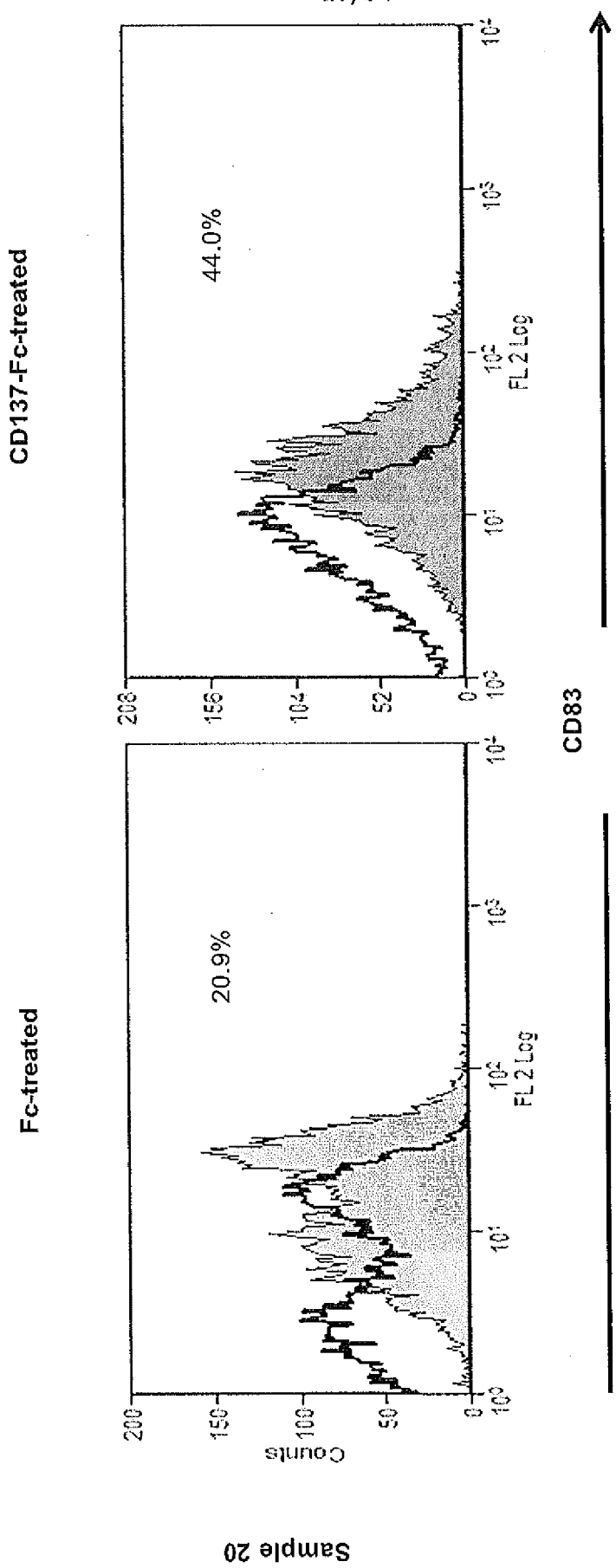


Figure 4A
(continued)

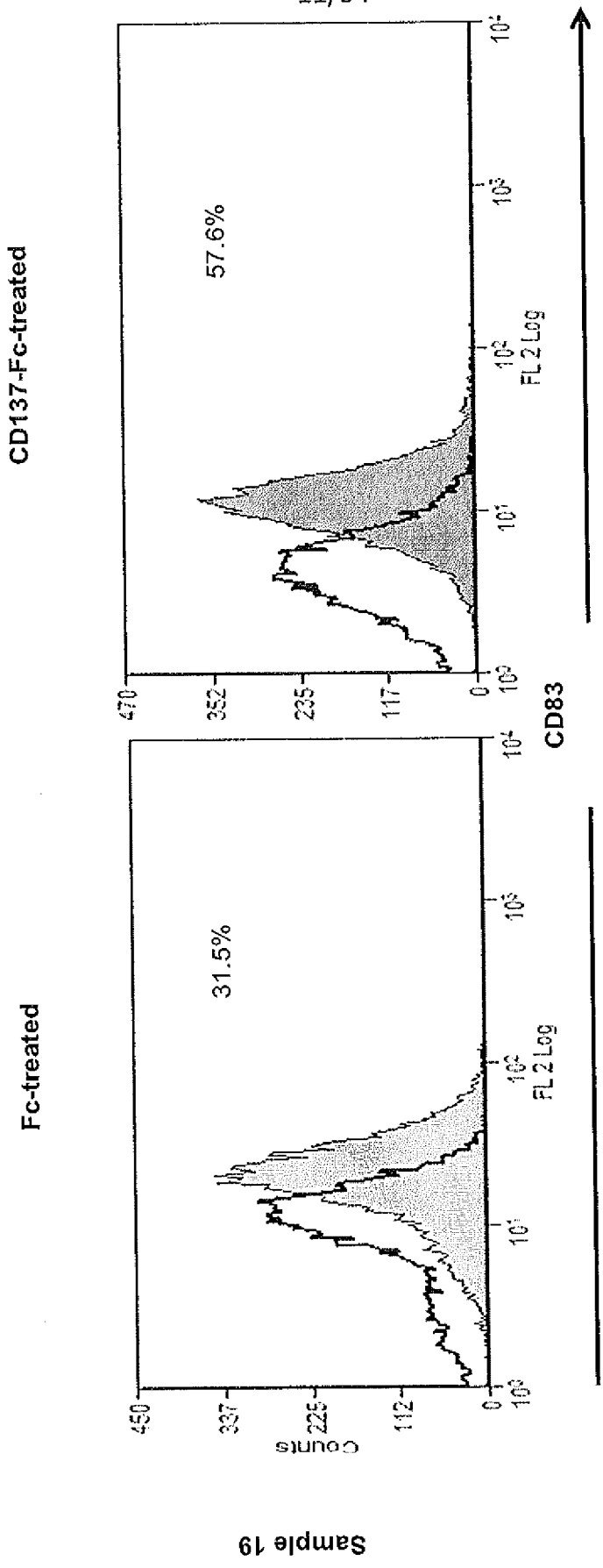


Figure 4A
(continued)

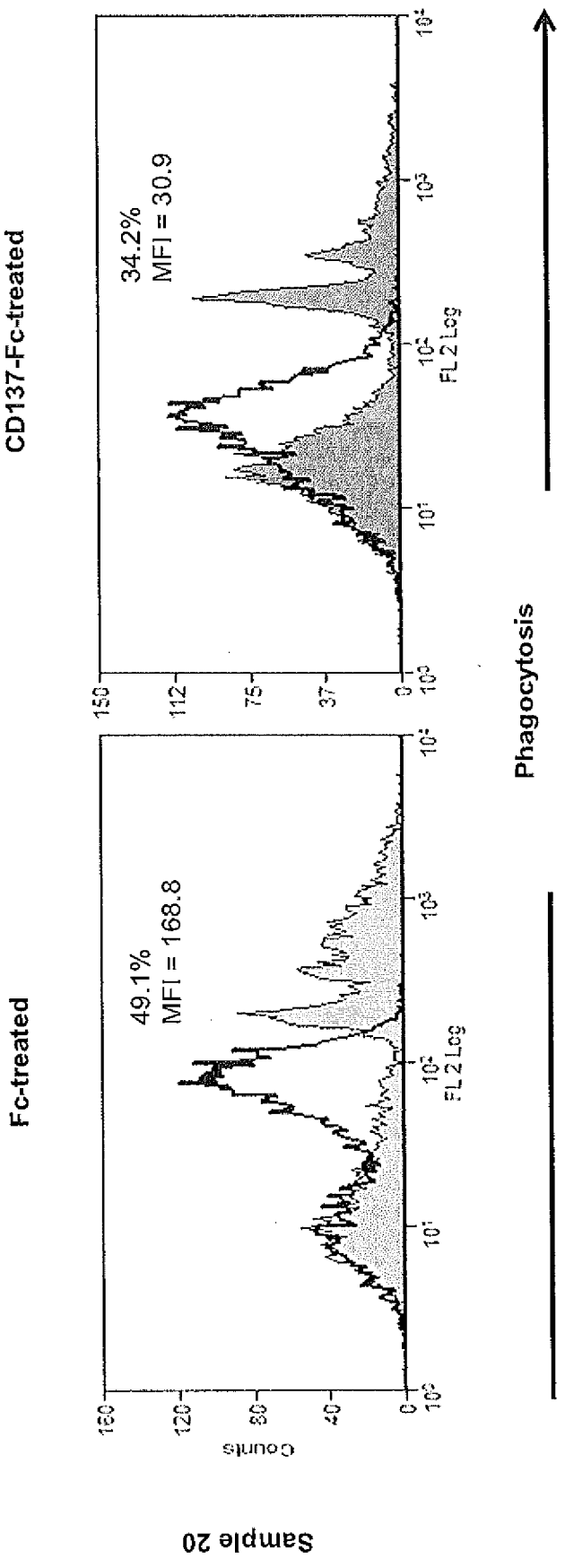

Sample 20
Counts
Fc-treated
49.1%
MFI = 168.8
CD137-Fc-treated
34.2%
MFI = 30.9
FL 2 Log
Phagocytosis

Figure 4B

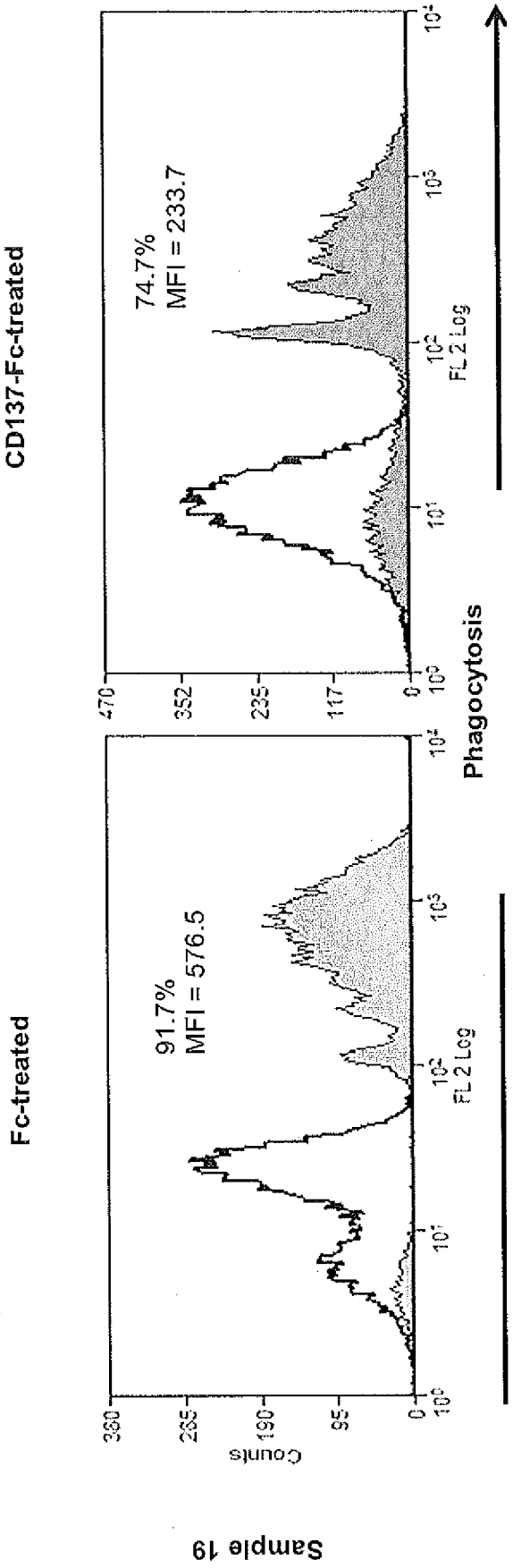


Figure 4B
(continued)

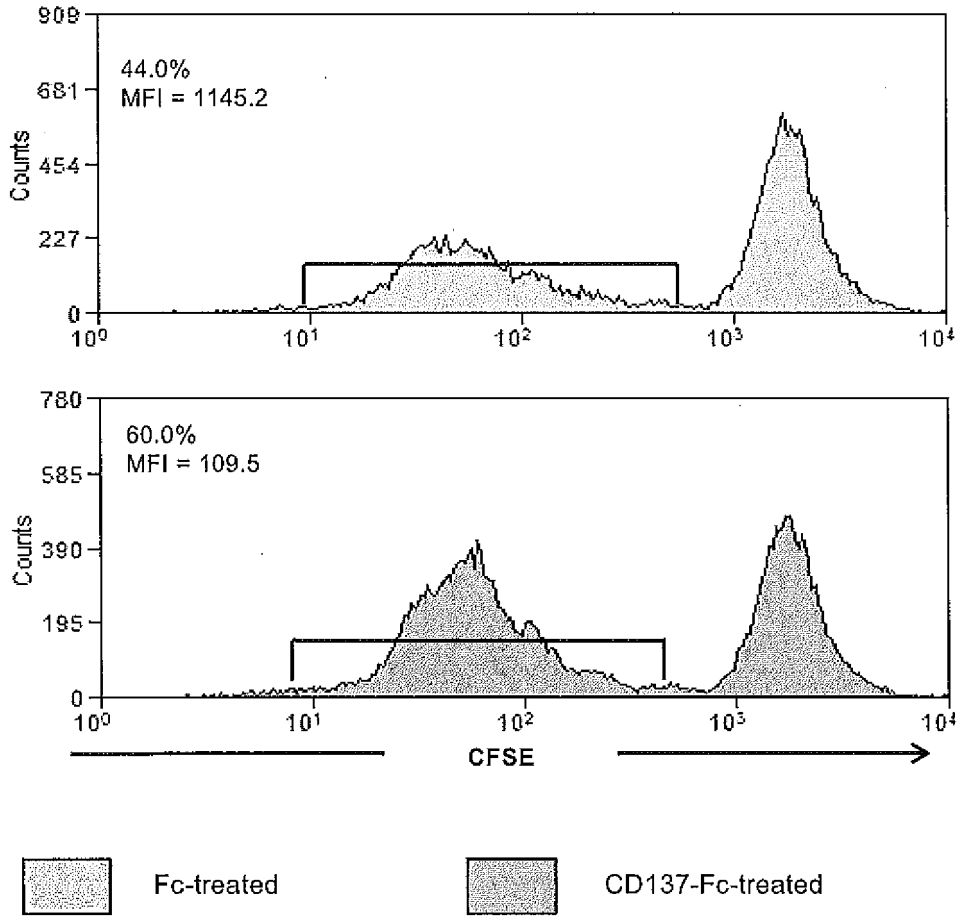

909
681
454
227
0
Counts
44.0%
MFI = 1145.2
10^0
10^1
10^2
10^3
10^4
780
585
390
195
0
Counts
60.0%
MFI = 109.5
10^0
10^1
10^2
10^3
10^4
CFSE
Fc-treated
CD137-Fc-treated

Figure 5A

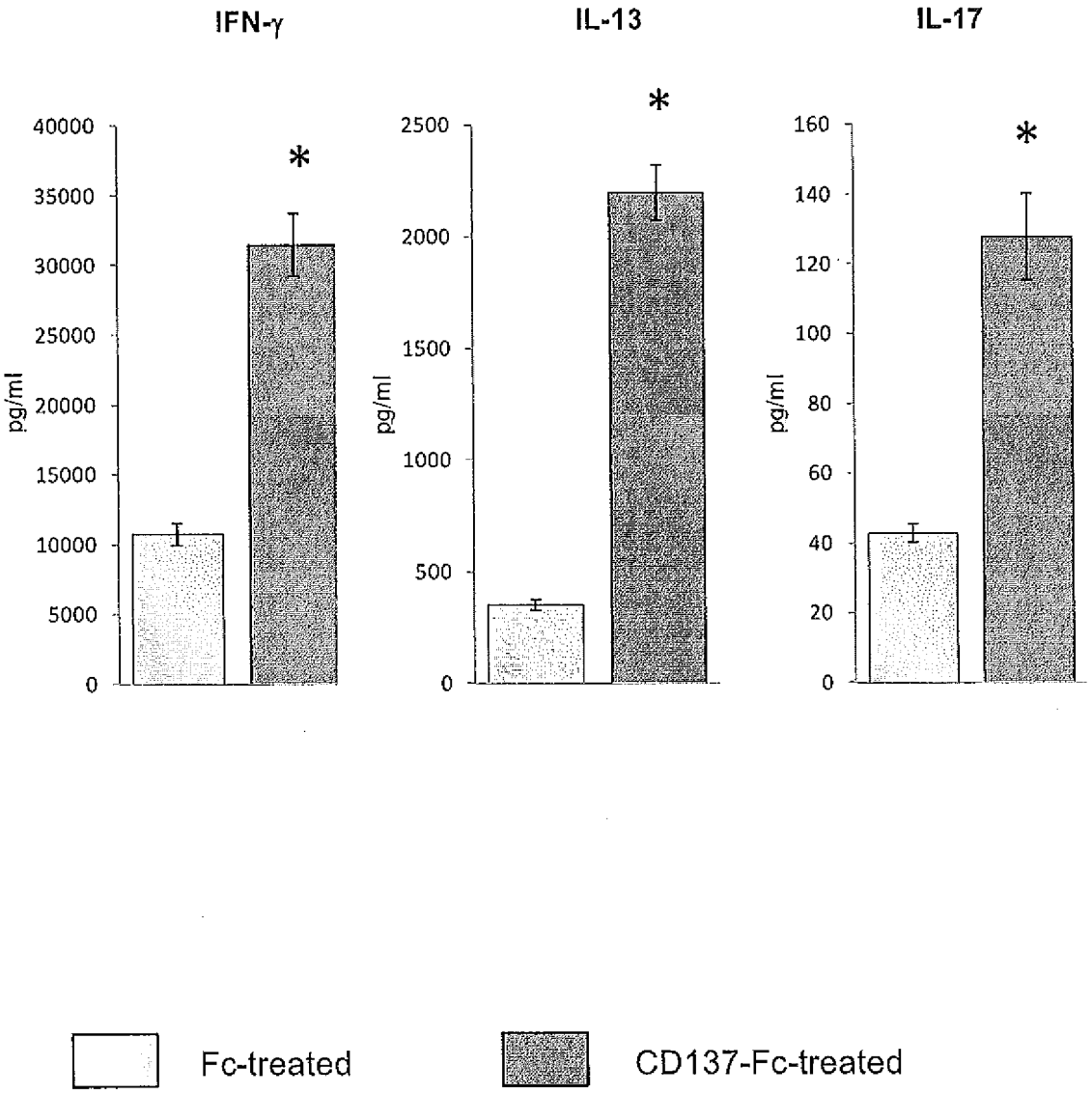

IFN-γ
IL-13
IL-17
pg/ml
40000
35000
30000
25000
20000
15000
10000
5000
0
2500
2000
1500
1000
500
160
140
120
100
80
60
40
20
*
Fc-treated
CD137-Fc-treated

Figure 5B

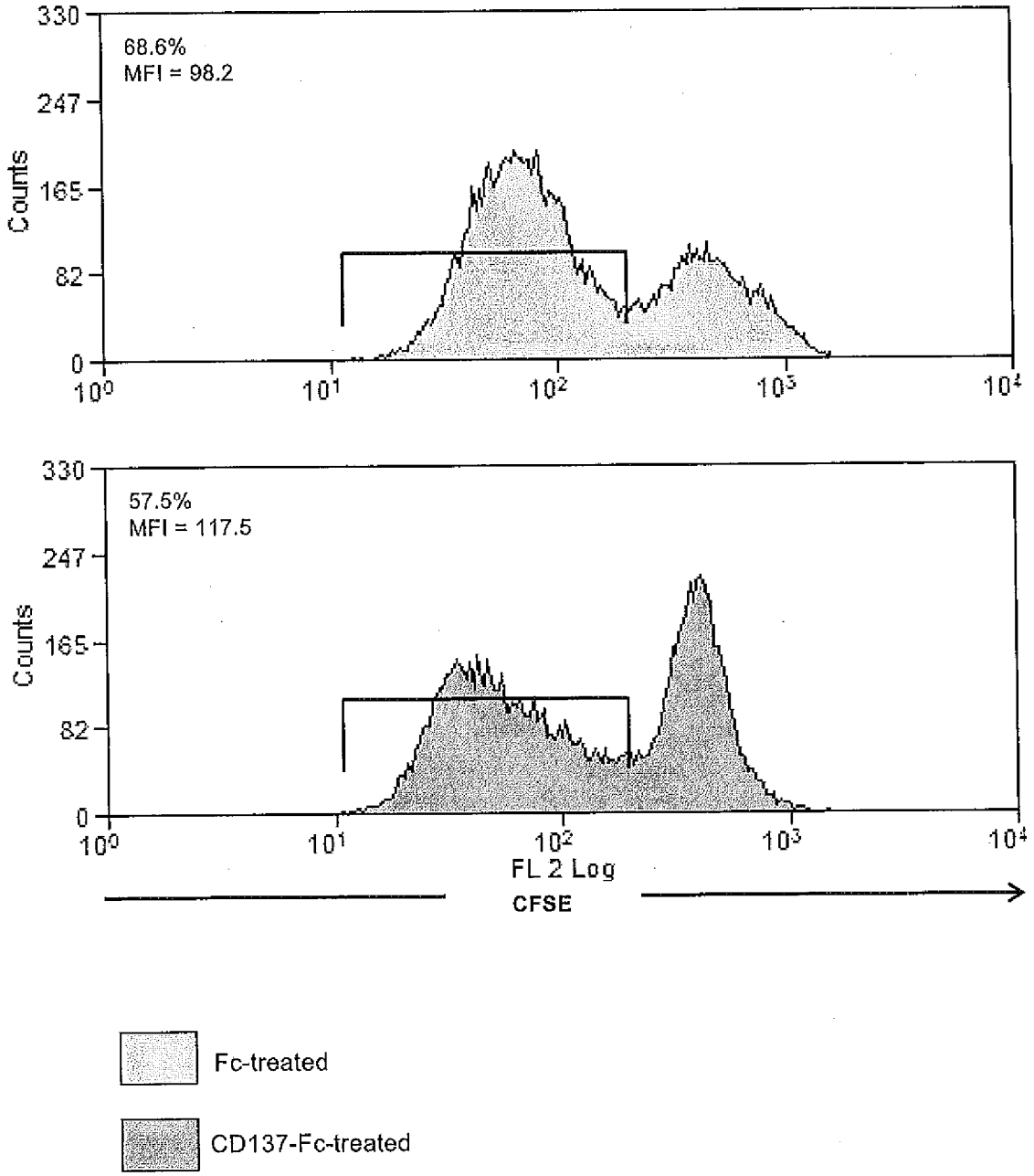

330
247
165
82
0
Counts
68.6%
MFI = 98.2
10^0
10^1
10^2
10^3
10^4
330
247
165
82
0
Counts
57.5%
MFI = 117.5
10^0
10^1
10^2
10^3
10^4
FL 2 Log
CFSE
Fc-treated
CD137-Fc-treated

Figure 6A

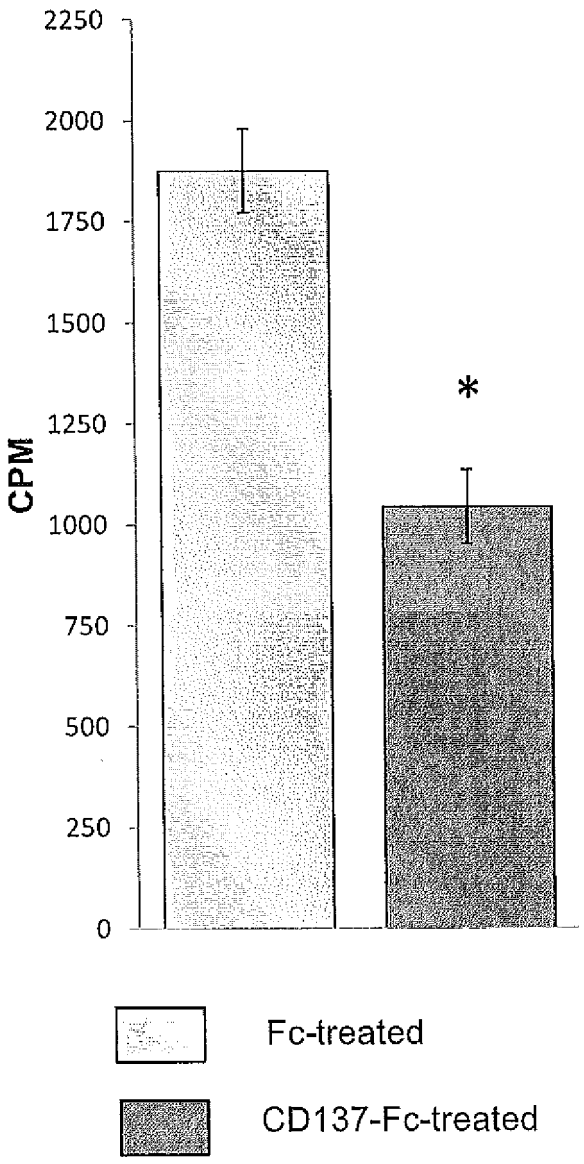

2250
2000
1750
1500
1250
1000
750
500
250
0
CPM
*
Fc-treated
CD137-Fc-treated

Figure 6B

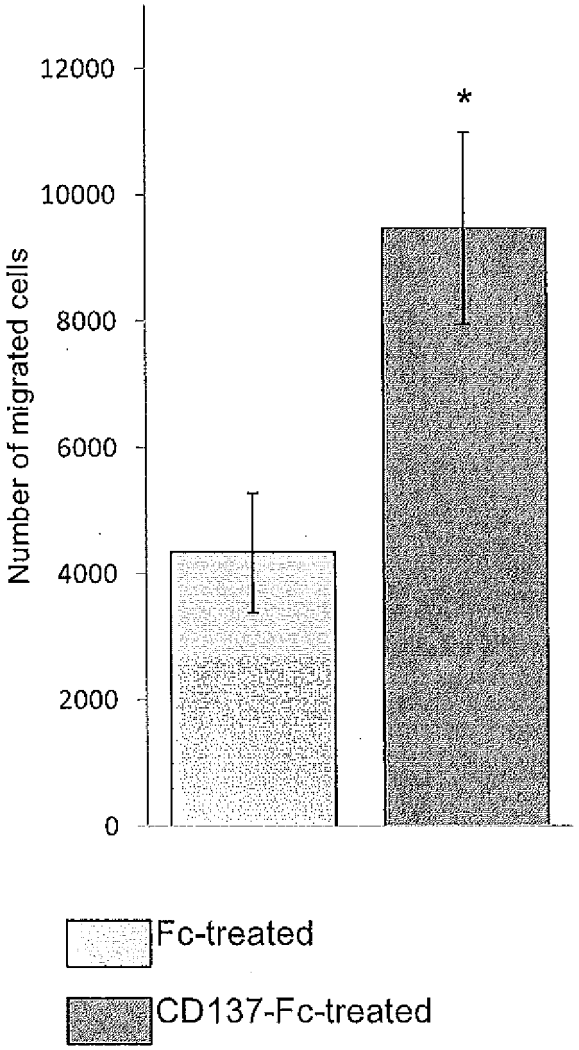

12000
10000
8000
6000
4000
2000
0
Number of migrated cells
*
Fc-treated
CD137-Fc-treated

Figure 7

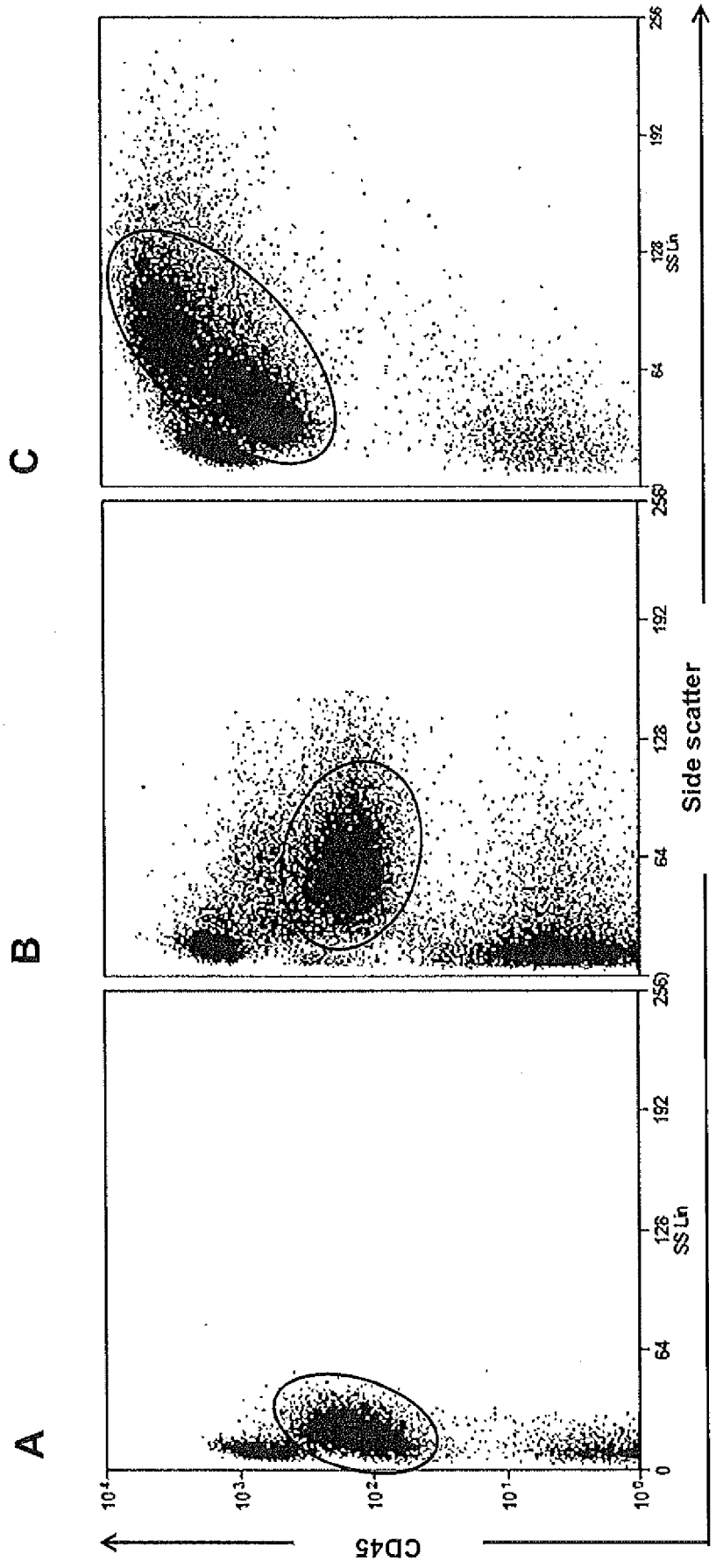

A
B
C
CD45
Side scatter
SS Lin
0
64
128
192
256
10^0
10^1
10^2
10^3
10^4

Figure 8

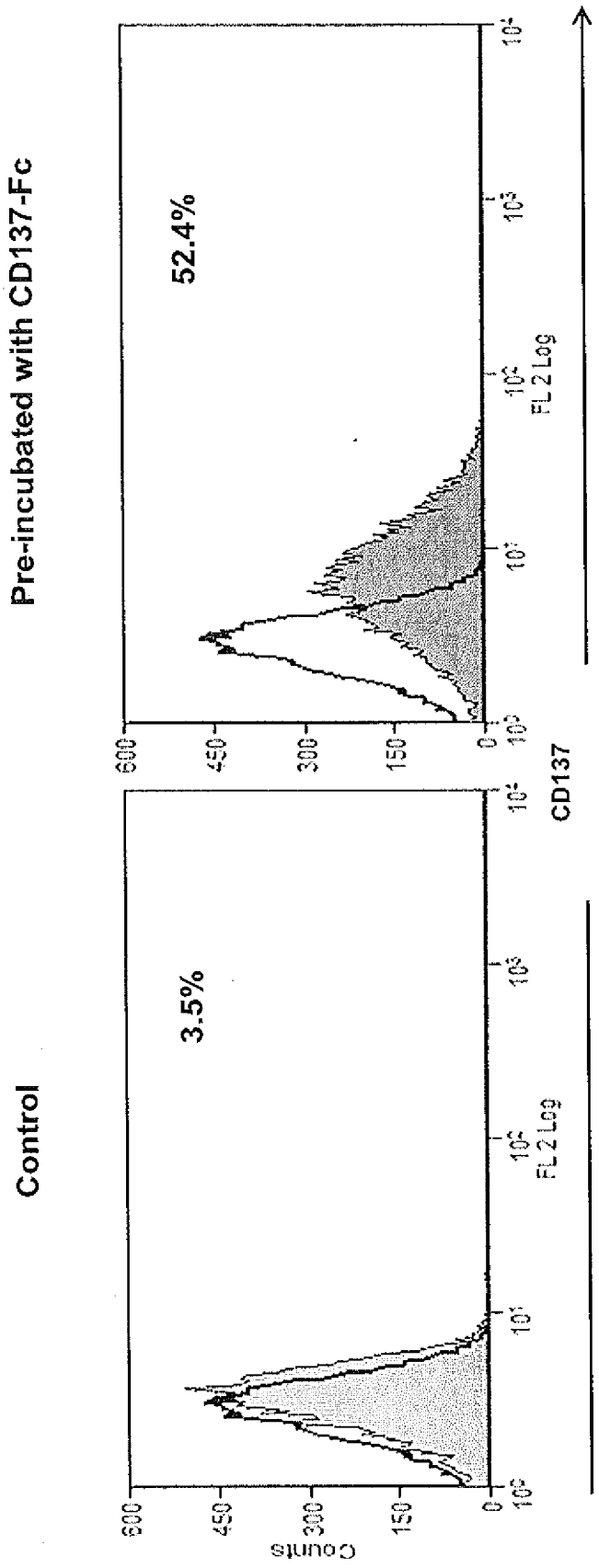

Pre-incubated with CD137-Fc
52.4%
Control
3.5%
CD137
FL 2 Log
Counts
600
450
300
150
0

Figure 9

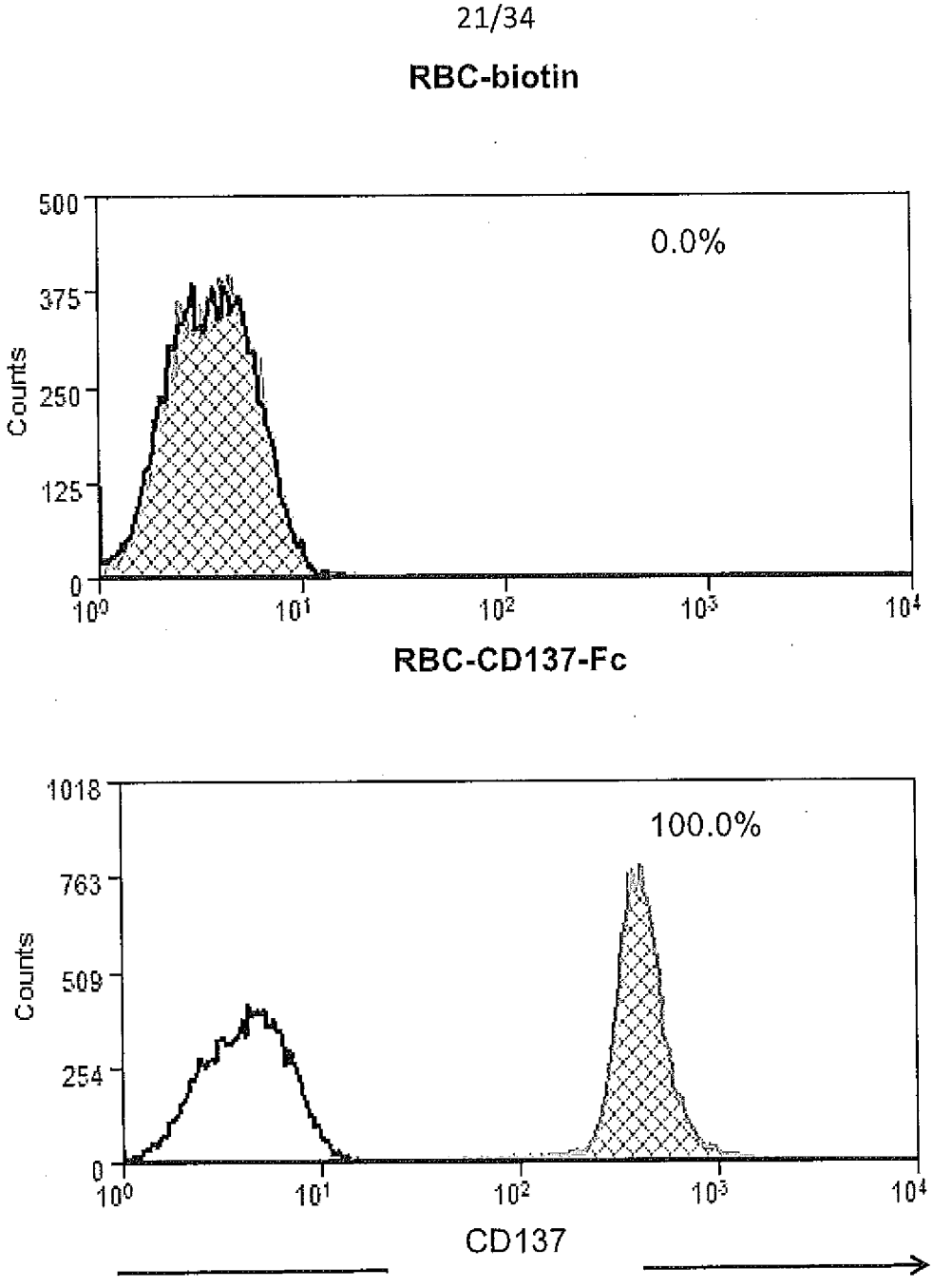

RBC-biotin
500
375
250
125
0
Counts
0.0%
10^0
10^1
10^2
10^3
10^4
RBC-CD137-Fc
1018
763
509
254
0
Counts
100.0%
10^0
10^1
10^2
10^3
10^4
CD137

Figure 10A

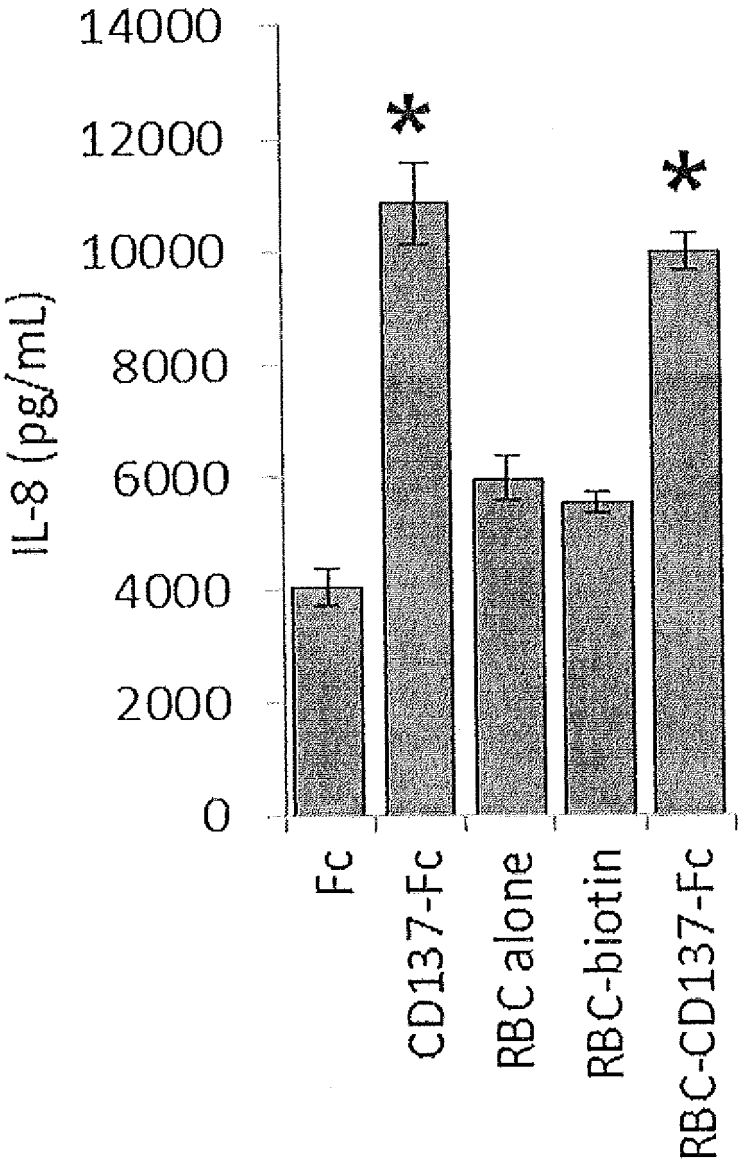

14000
12000
10000
8000
6000
4000
2000
0
IL-8 (pg/mL)
*
*
Fc
CD137-Fc
RBC alone
RBC-biotin
RBC-CD137-Fc

Figure 10B

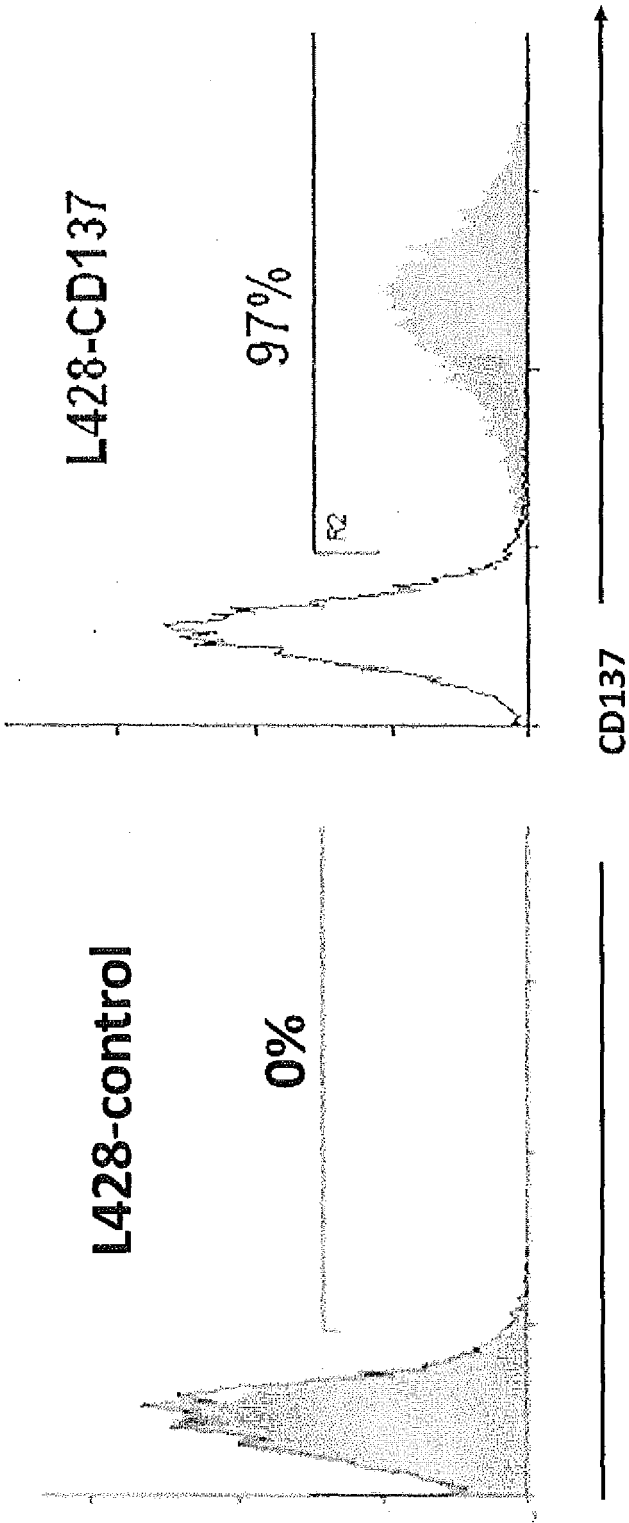


Figure 11

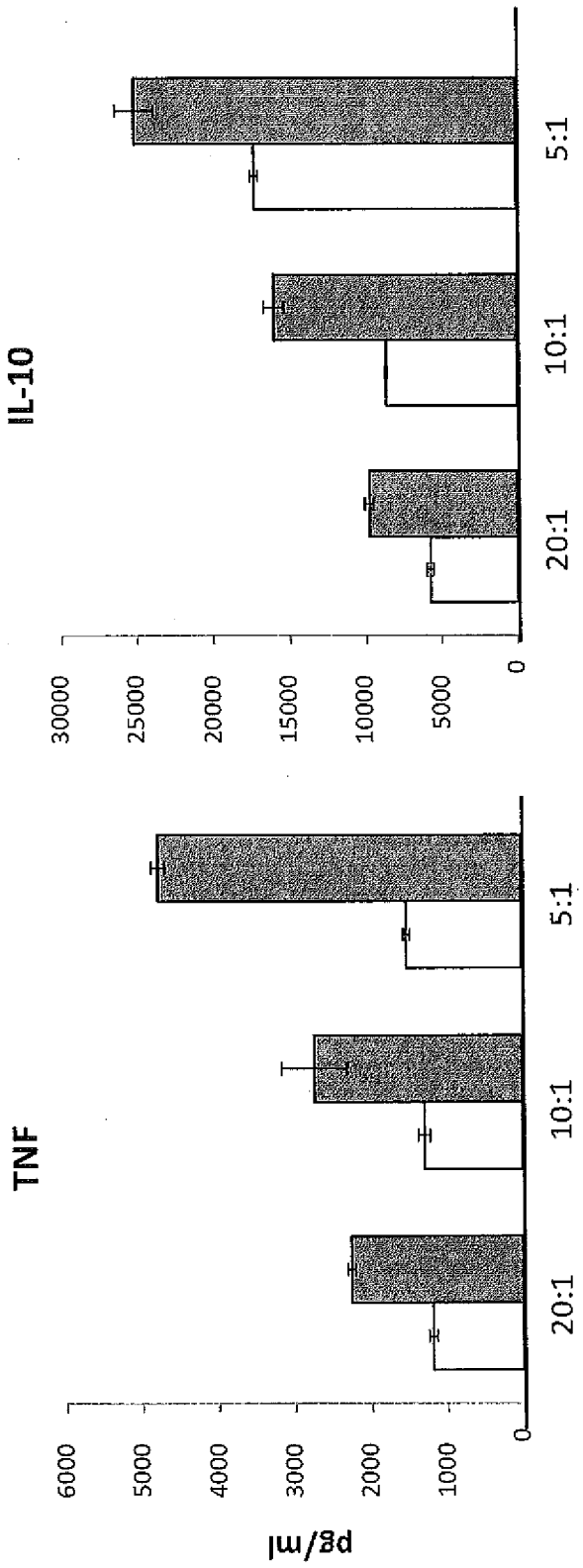

IL-10
TNF
pg/ml
6000
5000
4000
3000
2000
1000
0
30000
25000
20000
15000
10000
5000
0
20:1
10:1
5:1
Monocytes and L428-control
Monocytes and L428-CD137

Figure 12

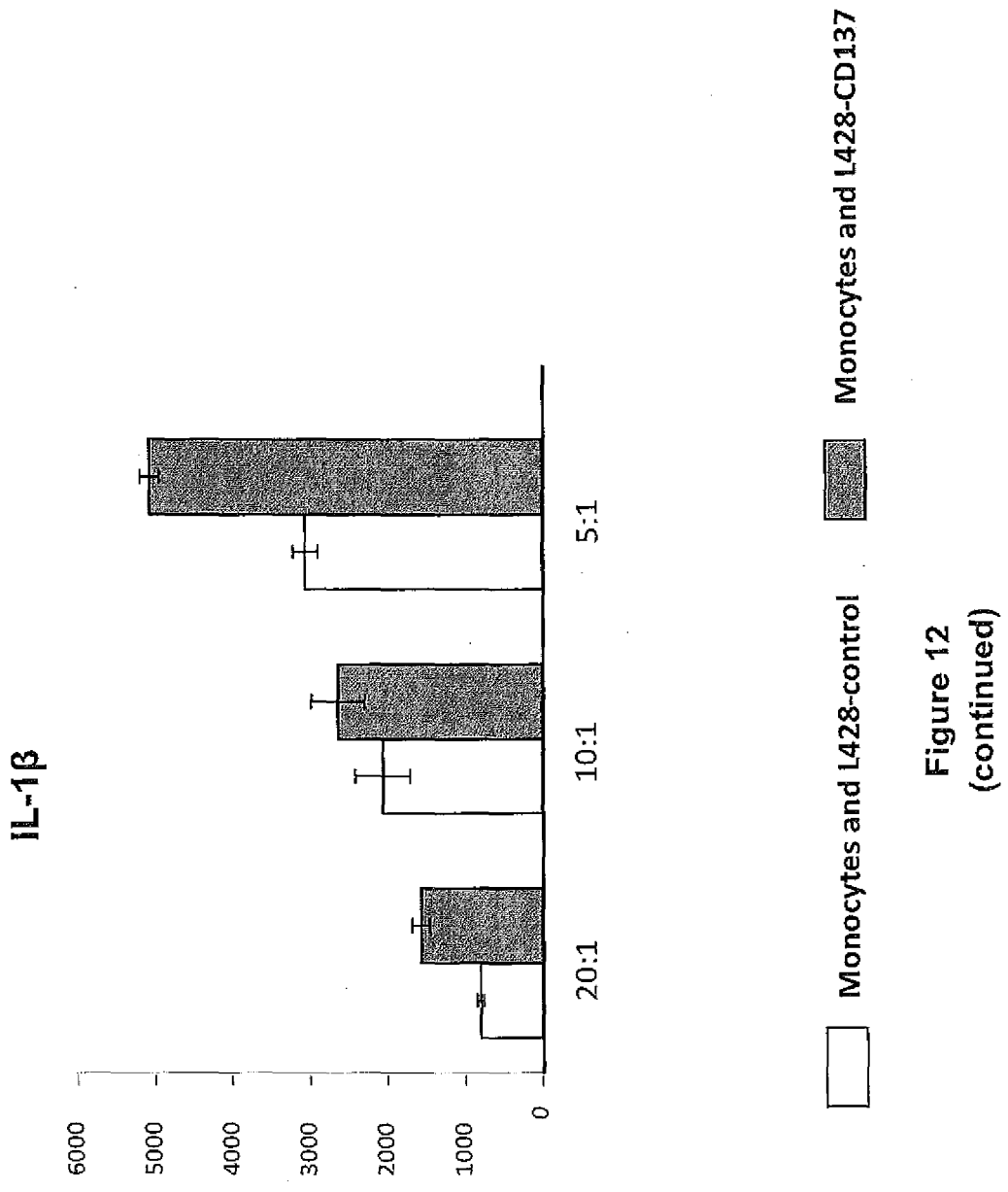


Figure 12
(continued)

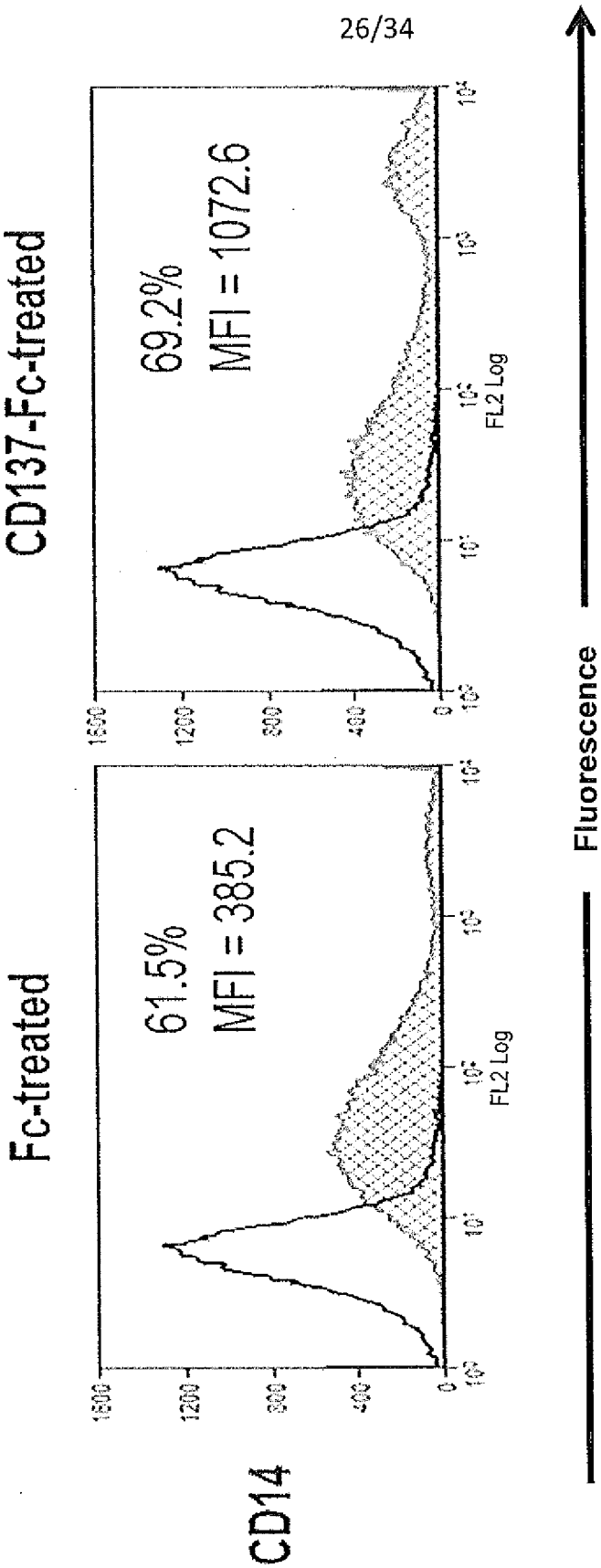

CD137-Fc-treated
69.2%
MFI = 1072.6
Fc-treated
61.5%
MFI = 385.2
CD14
FL2 Log
Fluorescence

Figure 13

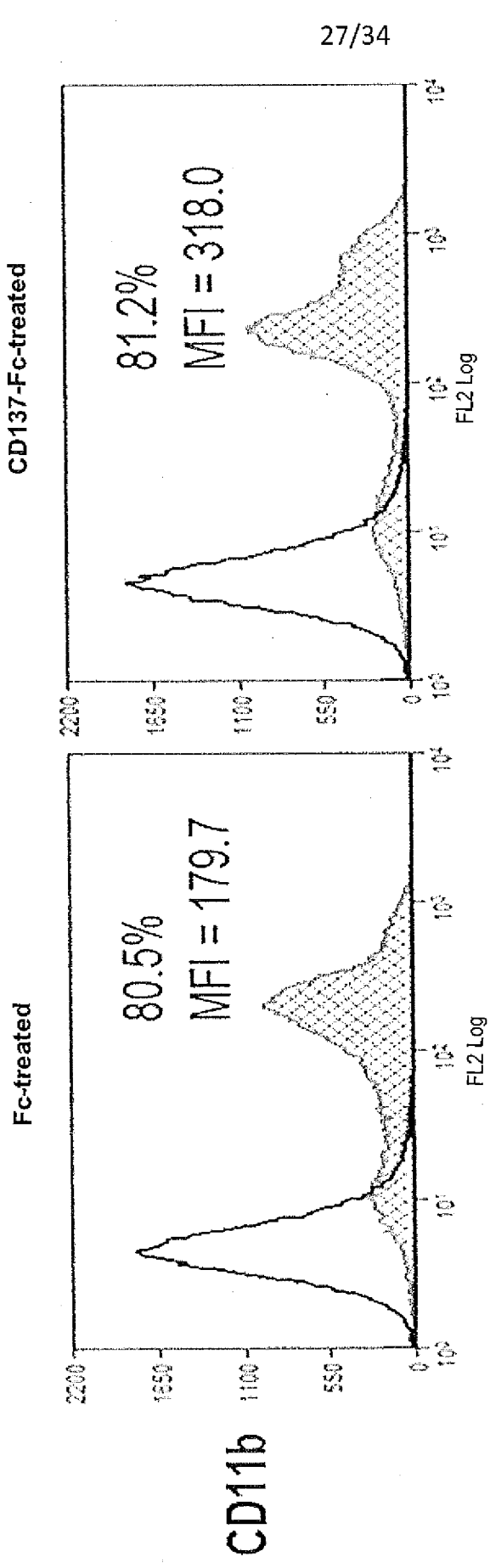


Figure 13
(continued)

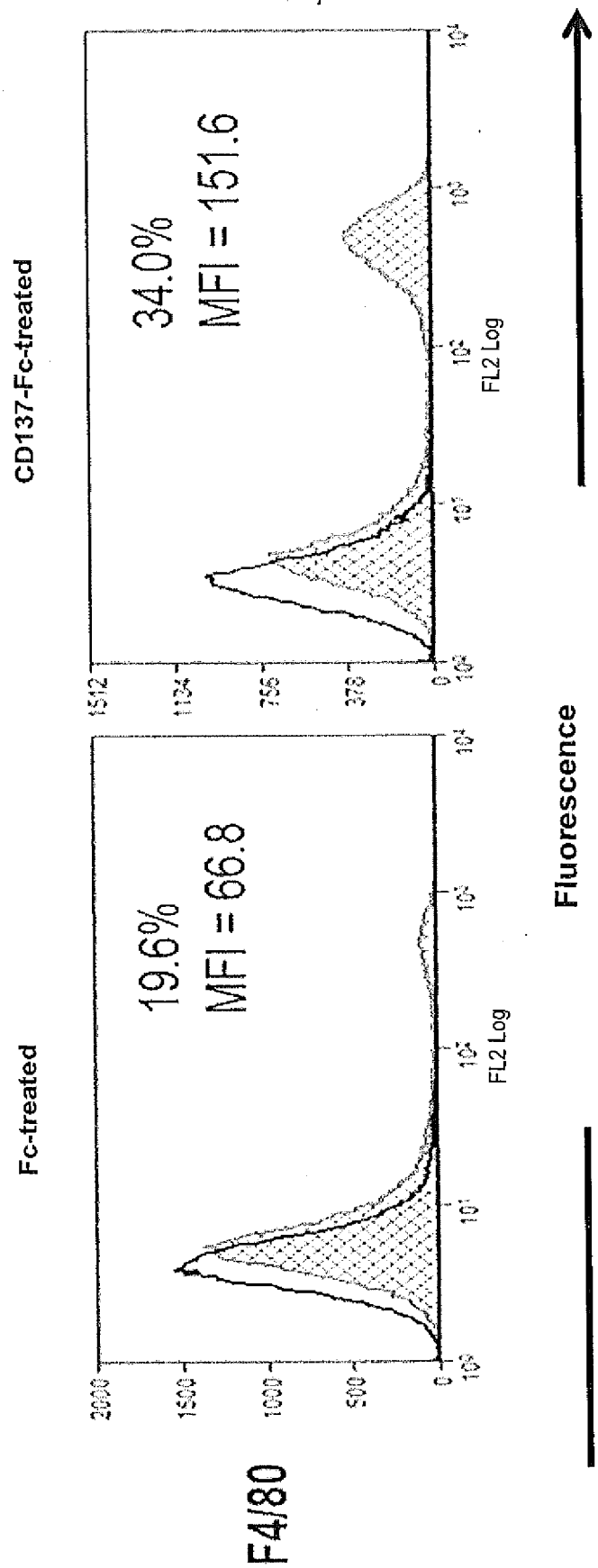


Figure 13
(continued)

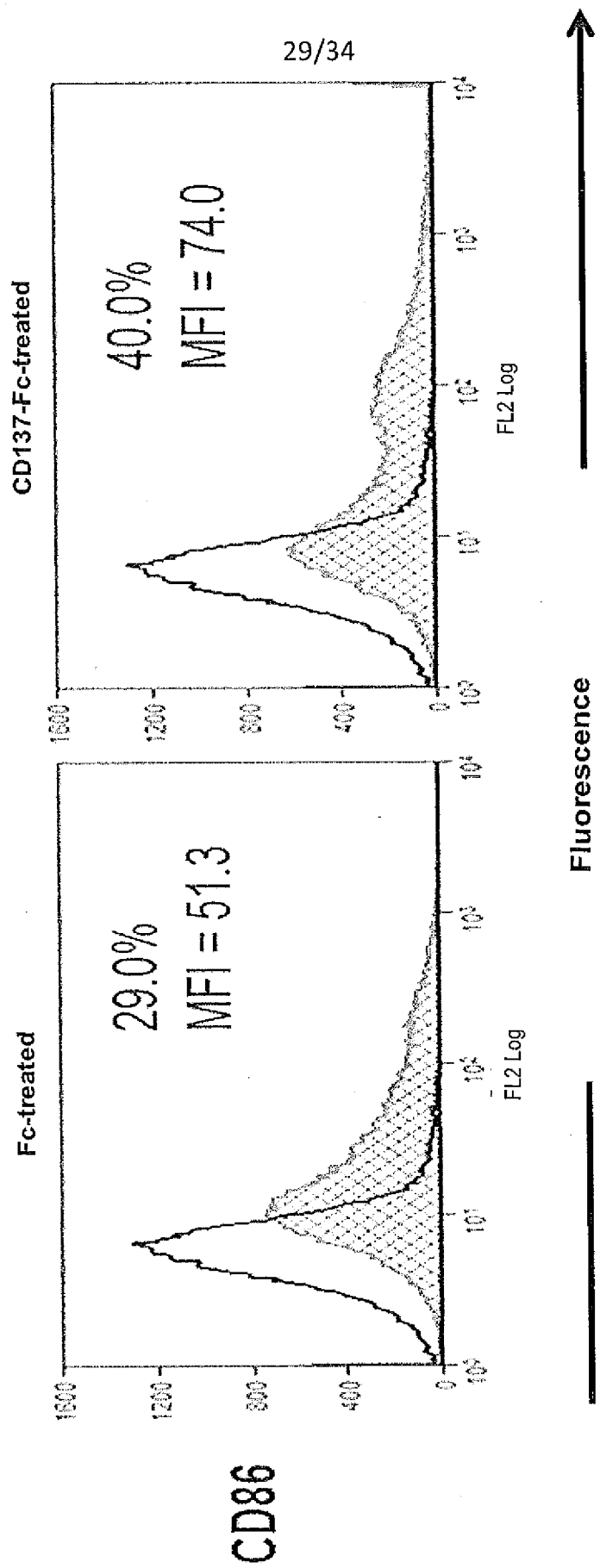


Figure 13
(continued)

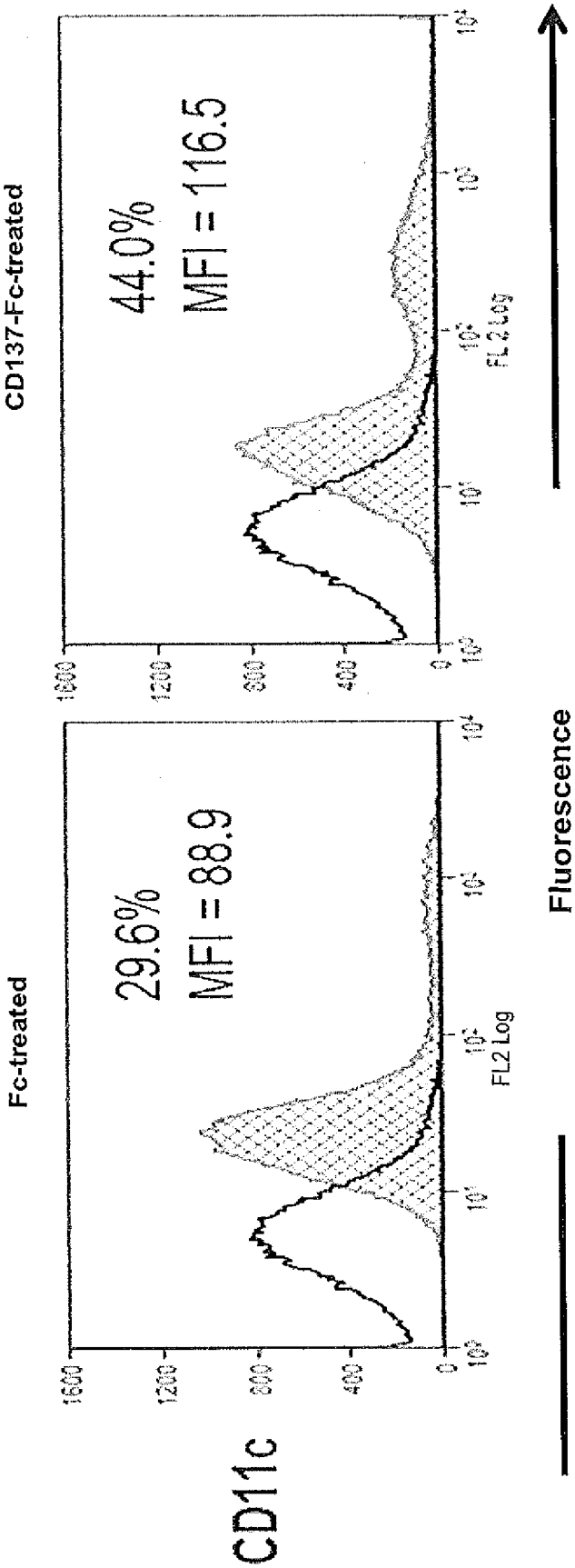


Figure 13
(continued)

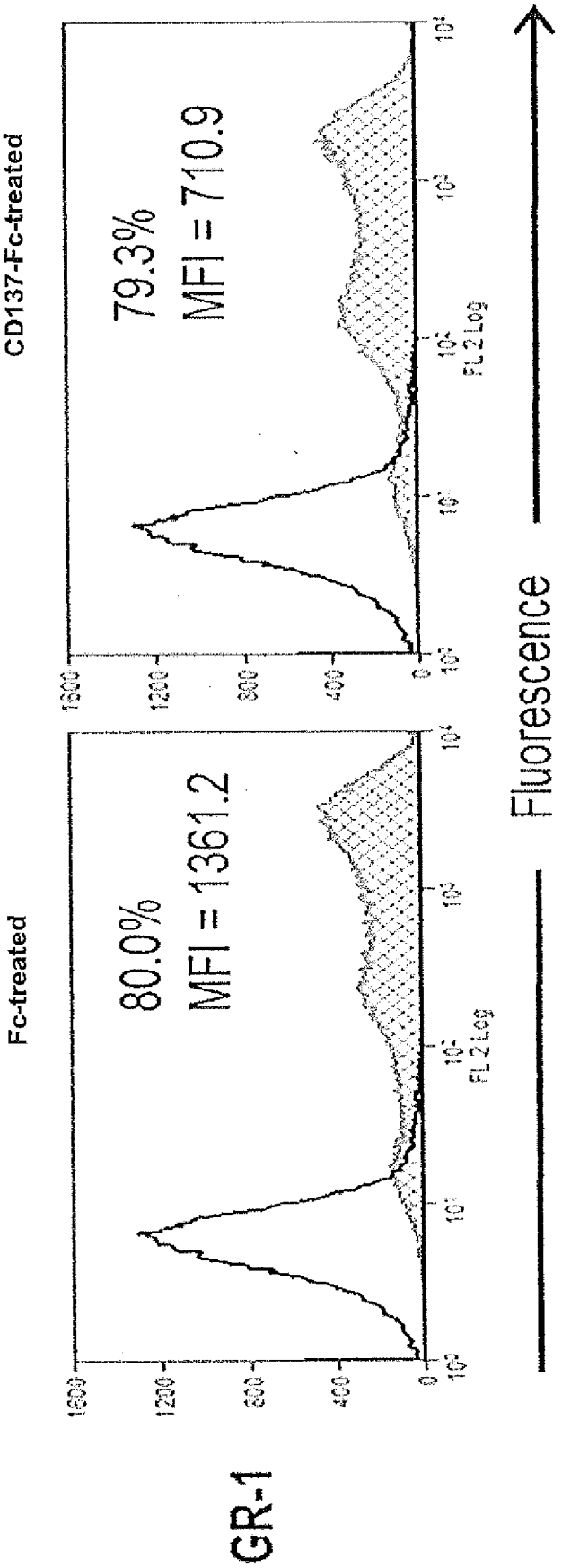


Figure 13
(continued)

SEQ ID NO: 1

MGNSCYNIVATLLLVLNFERTRSLQDPCSNCPAGTFCDNNRNQICSP
CPPNSFSSAGGQRTCDICRQCKGVFRTRKECSSTSNAECDCTPGFHC
LGAGCSMCEQDCKQGQELTKKGCKDCCFGTFNDQKRGICRPWTNCSL
DGKSVLVNGTKERDVVCGPSPADLSPGASSVTPPAPAREPGHSPQII
SFFLALTSTALLFLLFFLTLRFSVVKRGRKKLLYIFKQPFMRPVQTT
QEEDGCSCRFPEEEEGGCEL

Figure 14

SEQ ID NO: 2

```
   1 ggagtggaaa gttctccggc agccctgaga tctcaagagt gacatttgtg agaccagcta
  61 atttgattaa aattctcttg gaatcagctt tgctagtatc atacctgtgc cagatttcat
 121 catgggaaac agctgttaca acatagtagc cactctgttg ctggtcctca actttgagag
 181 gacaagatca ttgcaggatc cttgtagtaa ctgcccagct ggtacattct gtgataataa
 241 caggaatcag atttgcagtc cctgtcctcc aaatagtttc tccagcgcag gtggacaaag
 301 gacctgtgac atatgcaggc agtgtaaagg tgttttcagg accaggaagg agtgttcctc
 361 caccagcaat gcagagtgtg actgcactcc agggtttcac tgcctggggg caggatgcag
 421 catgtgtgaa caggattgta aacaaggtca agaactgaca aaaaaaggtt gtaaagactg
 481 ttgctttggg acatttaacg atcagaaacg tggcatctgt cgaccctgga caaactgttc
 541 tttggatgga aagtctgtgc ttgtgaatgg gacgaaggag agggacgtgg tctgtggacc
 601 atctccagcc gacctctctc cgggagcatc ctctgtgacc ccgcctgccc ctgcgagaga
 661 gccaggacac tctccgcaga tcatctcctt ctttcttgcg ctgacgtcga ctgcgttgct
 721 cttcctgctg ttcttcctca cgctccgttt ctctgttgtt aaacggggca gaaagaaact
 781 cctgtatata ttcaaacaac catttatgag accagtacaa actactcaag aggaagatgg
 841 ctgtagctgc cgatttccag aagaagaaga aggaggatgt gaactgtgaa atggaagtca
 901 atagggctgt tgggactttc ttgaaaagaa gcaaggaaat atgagtcatc cgctatcaca
 961 gctttcaaaa gcaagaacac catcctacat aatacccagg attccccaa cacacgttct
1021 tttctaaatg ccaatgagtt ggcctttaaa aatgcaccac ttttttttt tttttgacag
1081 ggtctcactc tgtcacccag gctggagtgc agtggcacca ccatggctct ctgcagcctt
1141 gacctctggg agctcaagtg atcctcctgc ctcagtctcc tgagtagctg gaactacaag
1201 gaagggccac cacacctgac taacttttt gttttttgtt tggtaaagat ggcatttcac
1261 catgttgtac aggctggtct caaactccta ggttcacttt ggcctcccaa agtgctggga
1321 ttacagacat gaactgccag gcccggccaa aataatgcac cacttttaac agaacagaca
1381 gatgaggaca gagctggtga taaaaaaaaa aaaaaaaaag cattttctag ataccactta
1441 acaggtttga gctagttttt ttgaaatcca aagaaaatta tagtttaaat tcaattacat
1501 agtccagtgg tccaactata attataatca aaatcaatgc aggtttgttt tttggtgcta
1561 atatgacata tgacaataag ccacgaggtg cagtaagtac ccgactaaag tttccgtggg
1621 ttctgtcatg taacacgaca tgctccaccg tcaggggga gtatgagcag agtgcctgag
1681 tttagggtca aggacaaaaa acctcaggcc tggaggaagt tttggaaaga gttcaagtgt
1741 ctgtatatcc tatggtcttc tccatcctca caccttctgc ctttgtcctg ctccctttta
1801 agccaggtta cattctaaaa attcttaact tttaacataa tattttatac caaagccaat
1861 aaatgaactg catatgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa
1921 aaaaaaaa
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Figure 15

SEQ ID NO: 3

GACAAAACTCACACATGCCCACCGTGCCCAGCACCTGAACTCCTGGGGGGACCGTCAGTCTT
CCTCTTCCCCCCAAAACCCAAGGACACCCTCATGATCTCCCGGACCCCTGAGGTCACATGCG
TGGTGGTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGGTACGTGGACGGCGTG
GAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCACGTACCGTGTGGT
CAGCGTCCTCACCGTCCTGCACCAGGACTGGCTGAATGGCAAGGAGTACAAGTGCAAGGTCT
CCAACAAAGCCCTCCCAGCCCCCATCGAGAAAACCATCTCCAAAGCCAAAGGGCAGCCCCGA
GAACCACAGGTGTACACCCTGCCCCCATCCCGGGAGGAGATGACCAAGAACCAGGTCAGCCT
GACCTGCCTGGTCAAAGGCTTCTATCCCAGCGACATCGCCGTGGAGTGGGAGAGCAATGGGC
AGCCGGAGAACAACTACAAGACCACGCCTCCCGTGCTGGACTCCGACGGCTCCTTCTTCCTC
TACAGCAAGCTCACCGTGGACAAGAGCAGGTGGCAGCAGGGGAACGTCTTCTCATGCTCCGT
GATGCACGAGGCTCTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAA

Figure 16