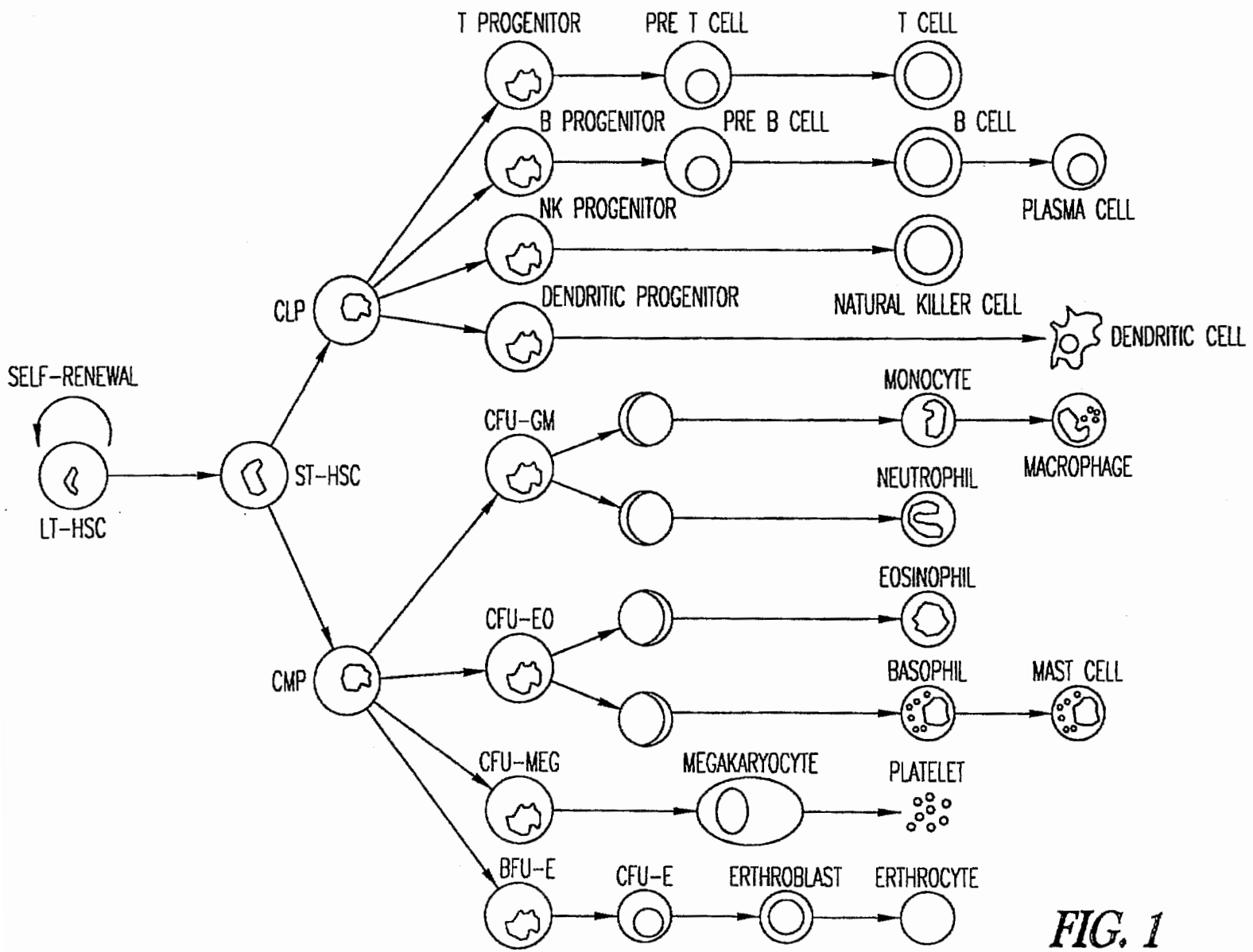

T PROGENITOR
PRE T CELL
T CELL
B PROGENITOR
PRE B CELL
B CELL
PLASMA CELL
NK PROGENITOR
NATURAL KILLER CELL
DENDRITIC PROGENITOR
DENDRITIC CELL
CLP
SELF-RENEWAL
MONOCYTE
CFU-GM
MACROPHAGE
ST-HSC
NEUTROPHIL
LT-HSC
EOSINOPHIL
CFU-EO
BASOPHIL
MAST CELL
CMP
CFU-MEG
MEGAKARYOCYTE
PLATELET
BFU-E
CFU-E
ERTHROBLAST
ERTHROCYTE

FIG. 1

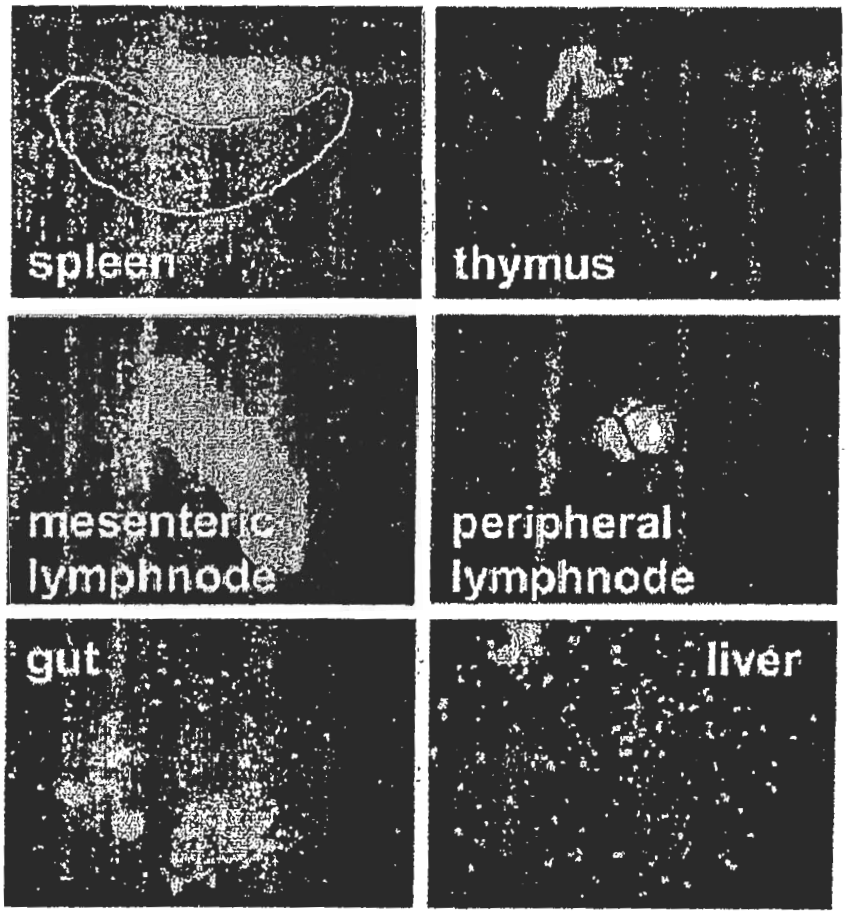

spleen
thymus
mesenteric lymphnode
peripheral lymphnode
gut
liver

FIG. 2A

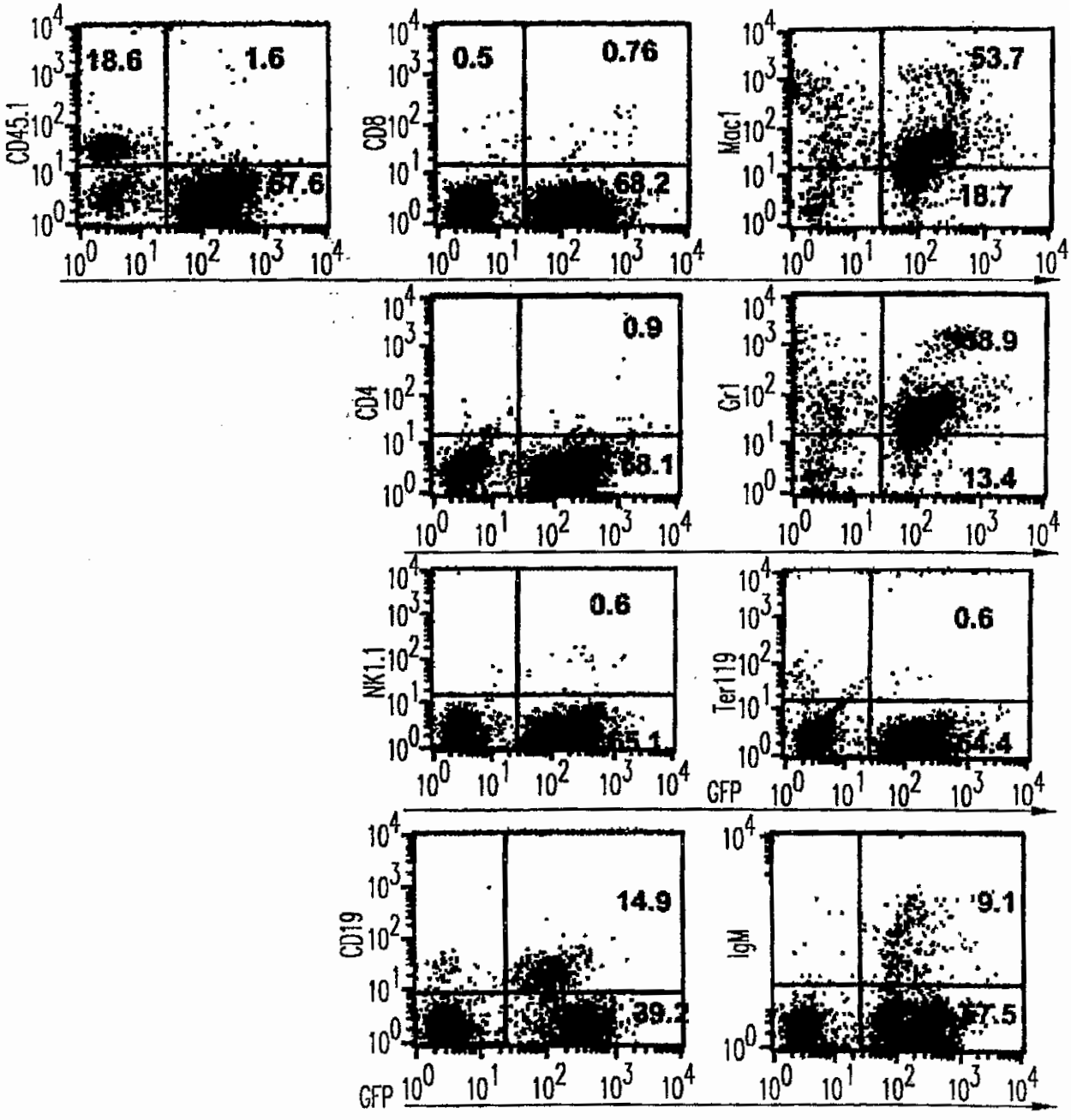

CD45.1
18.6
1.6
67.6
CD8
0.5
0.76
68.2
Mac1
53.7
18.7
CD4
0.9
68.1
Gr1
68.9
13.4
NK1.1
0.6
5.1
Ter119
0.6
4.4
GFP
CD19
14.9
39.2
GFP
IgM
9.1
7.5

FIG. 2B-1

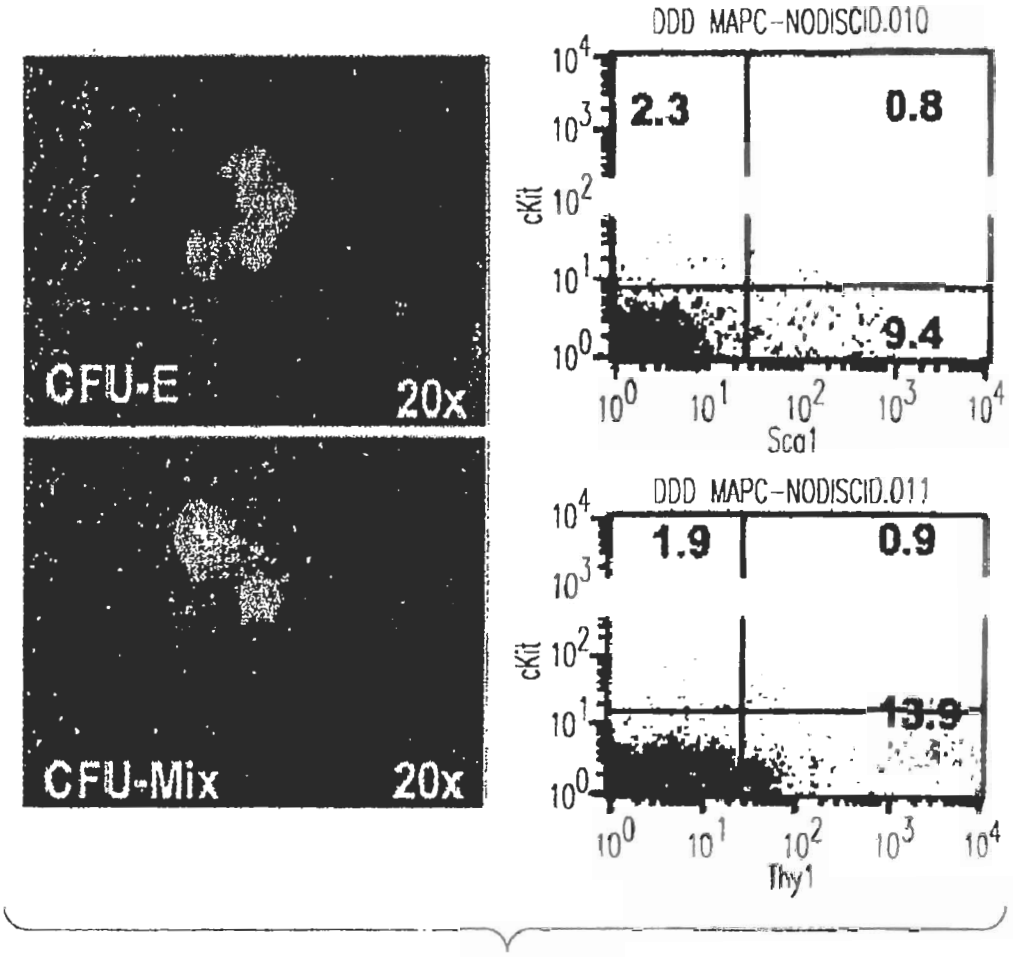
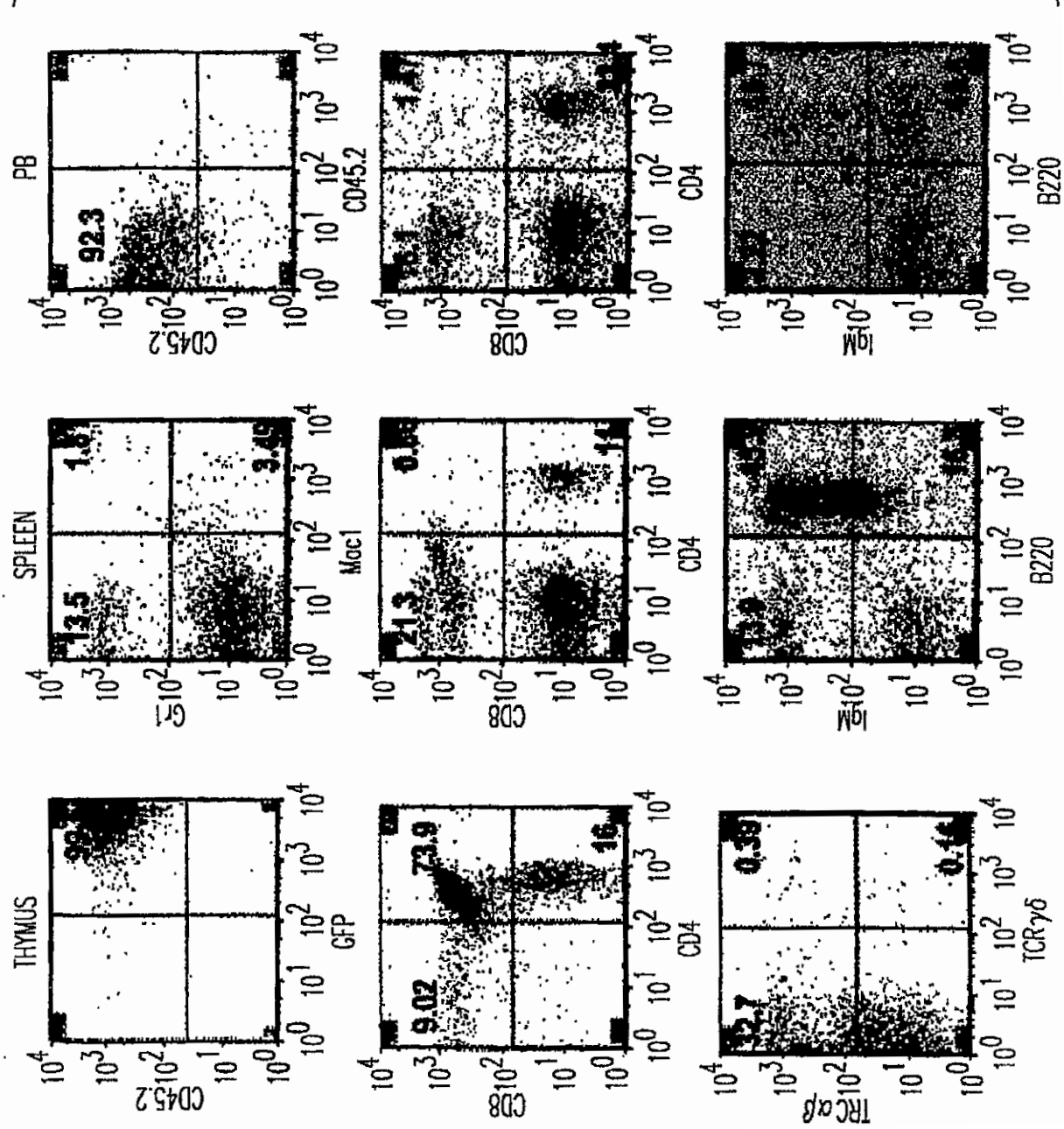

CFU-E
20x
CFU-Mix
20x
DDD MAPC-NODISCID.010
2.3
0.8
9.4
cKit
Sca1
DDD MAPC-NODISCID.011
1.9
0.9
13.9
cKit
Thy1

FIG. 2B-2

FIG. 2C


THYMUS
SPLEEN
PB
CD45.2
GFP
Gr1
Mac1
CD8
CD4
IgM
B220
TCRγδ
TCRαβ
92.3
73.9
9.02
13.5
21.3
0.39
12.7

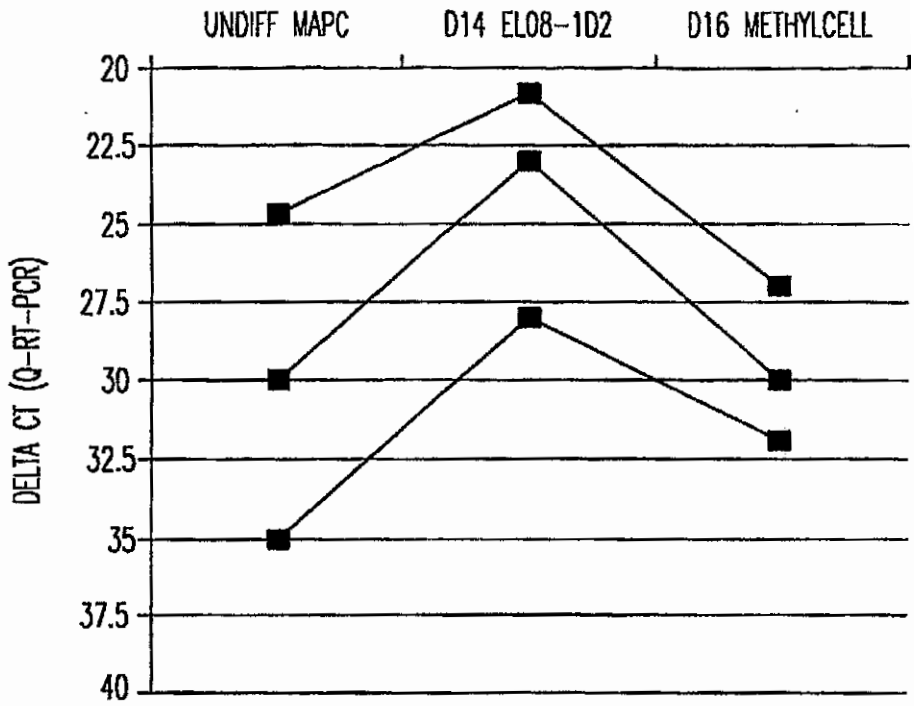

UNDIFF MAPC
D14 EL08-1D2
D16 METHYLCELL
DELTA CT (Q-RT-PCR)
20
22.5
25
27.5
30
32.5
35
37.5
40

FIG. 3A



FIG. 3B

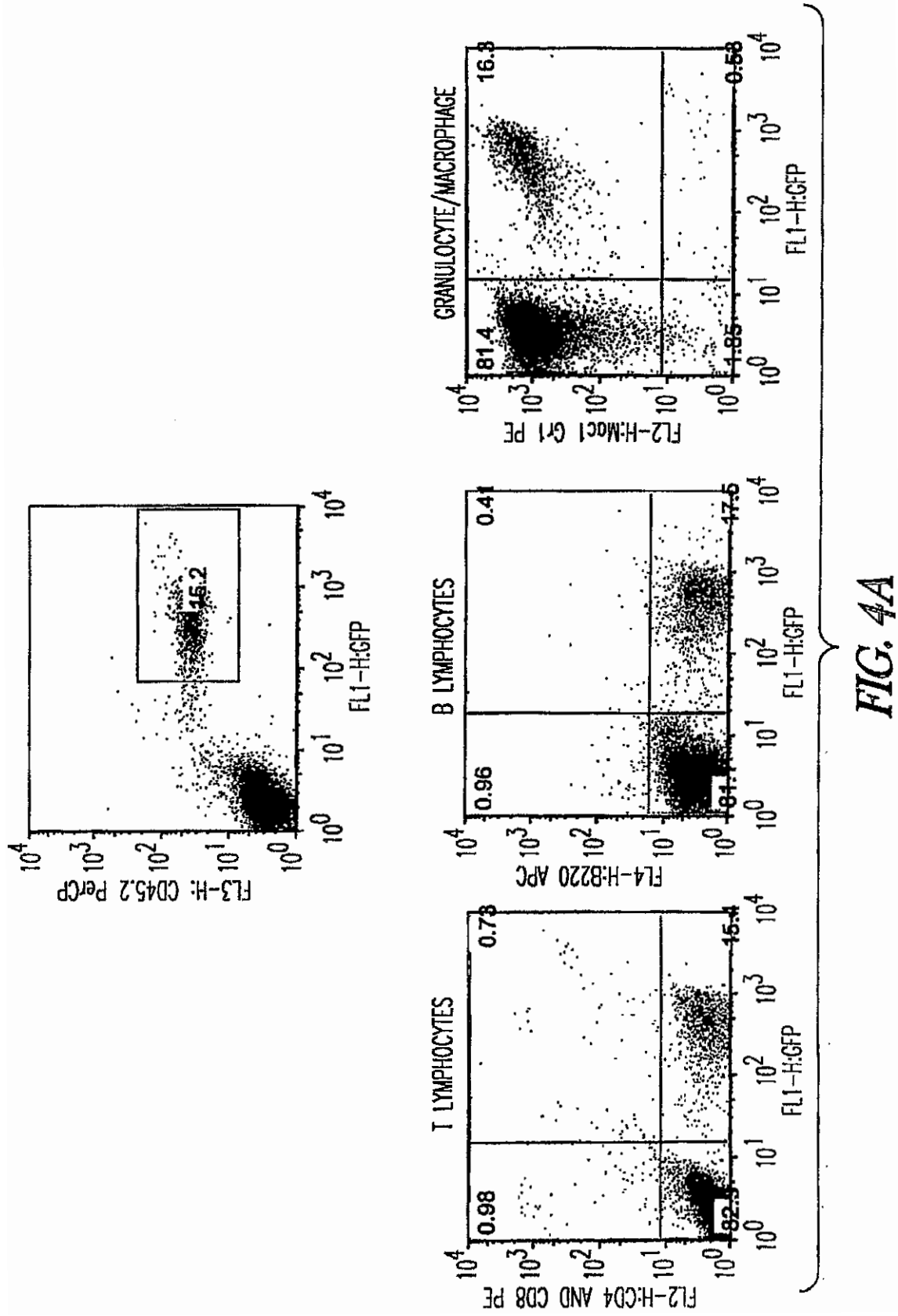

FL3-H: CD45.2 PerCP
FL1-H:GFP
15.2
T LYMPHOCYTES
FL2-H:CD4 AND CD8 PE
0.98
0.73
82.3
15.4
B LYMPHOCYTES
FL4-H:B220 APC
0.96
0.41
81.1
17.5
GRANULOCYTE/MACROPHAGE
FL2-H:Mac1 Gr1 PE
81.4
16.8
1.85
0.58

FIG. 4A

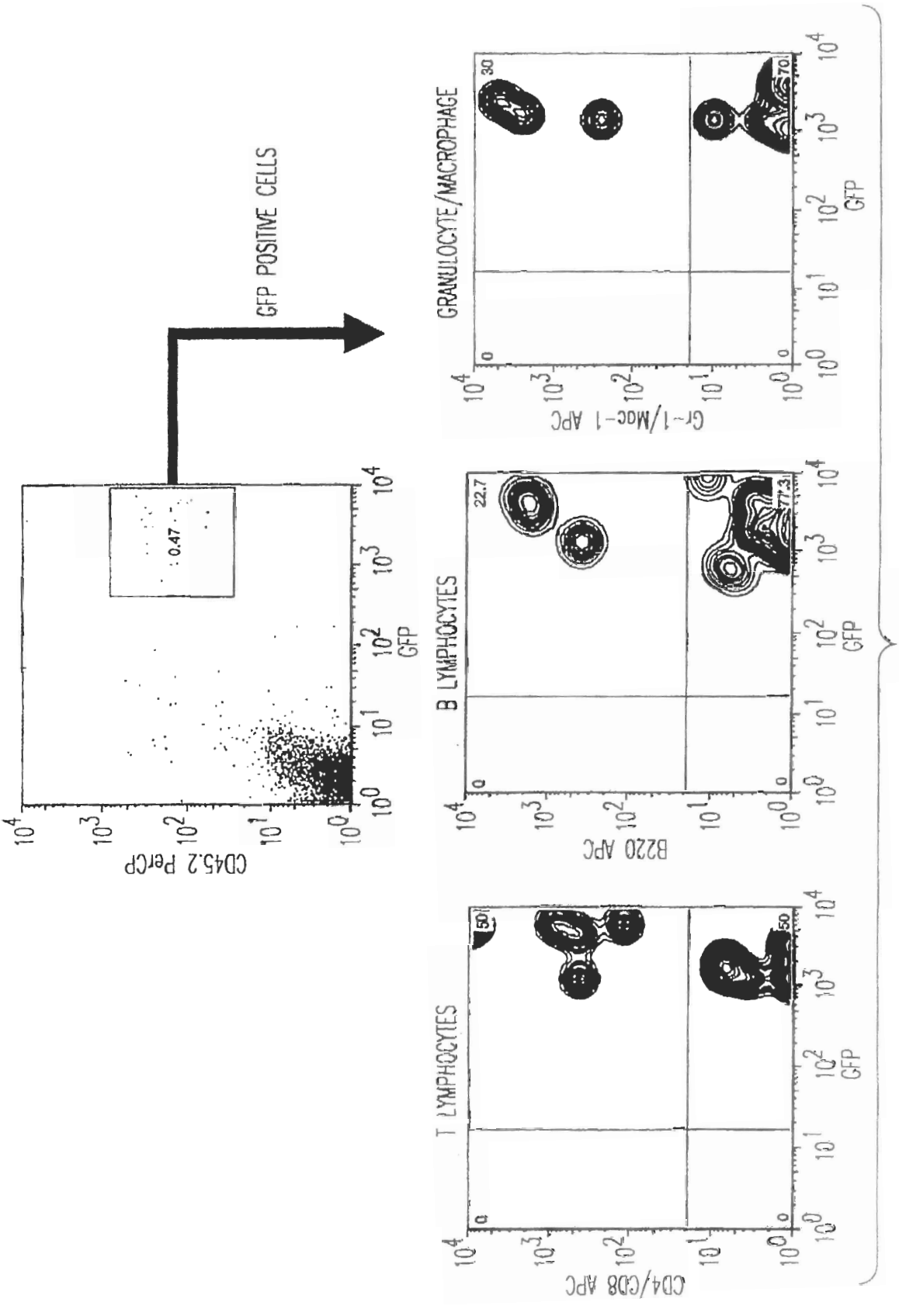

GFP POSITIVE CELLS
CD45.2 PerCP
GFP
0.47
B220 APC
B LYMPHOCYTES
22.7
77.3
Gr-1/Mac-1 APC
GRANULOCYTE/MACROPHAGE
30
70
CD4/CD8 APC
T LYMPHOCYTES
50
50

FIG. 4B-1

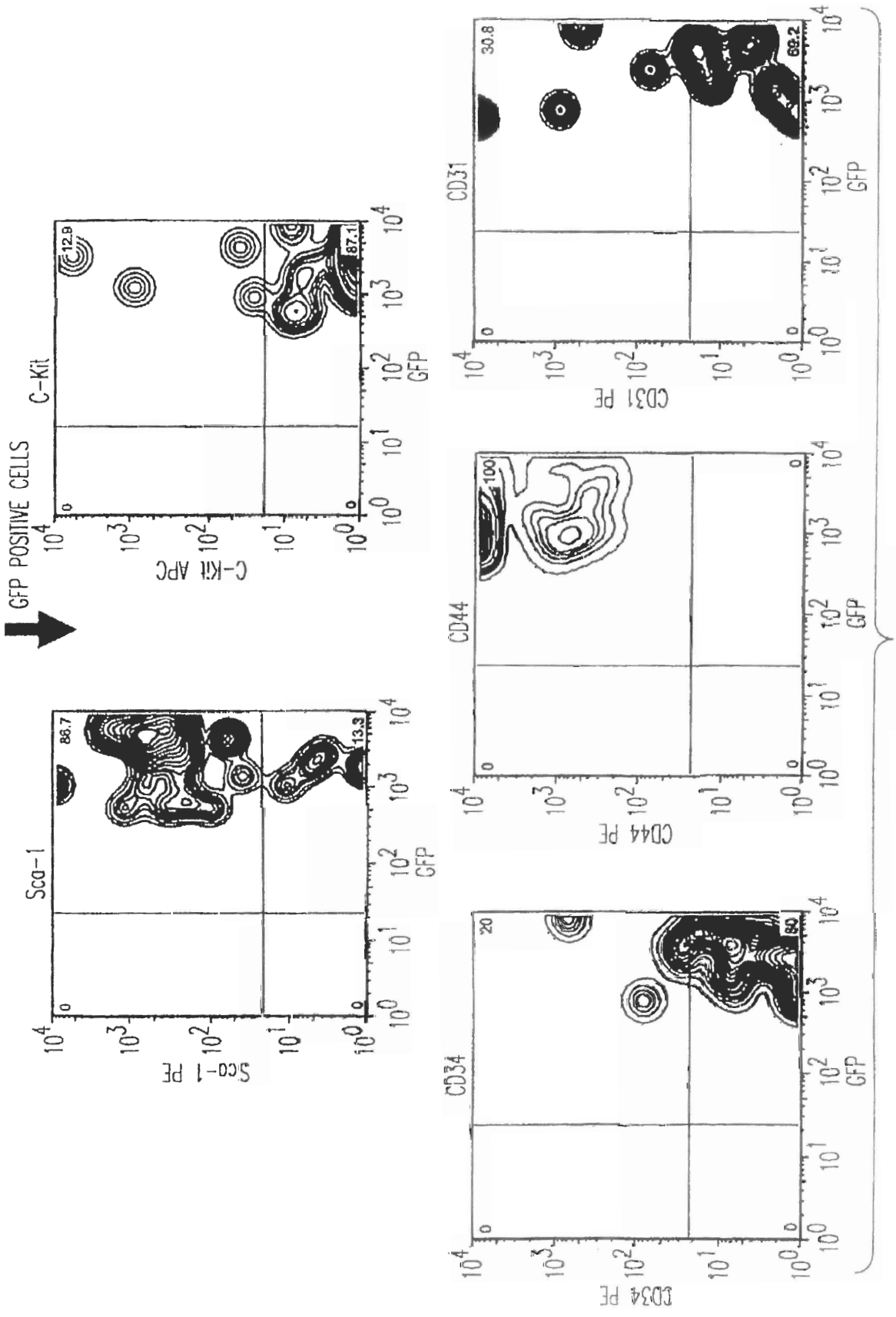

GFP POSITIVE CELLS
Sca-1
Sca-1 PE
GFP
C-Kit
C-Kit APC
GFP
CD34
CD34 PE
GFP
CD44
CD44 PE
GFP
CD31
CD31 PE
GFP

FIG. 4B-2

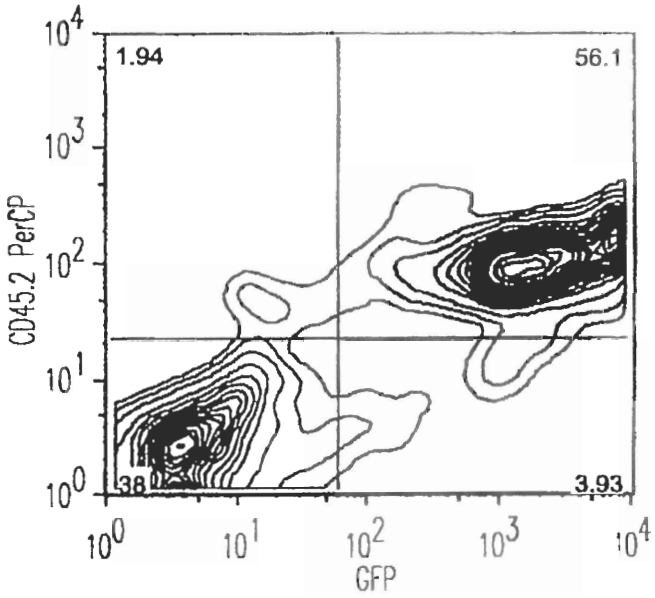


FIG. 5A

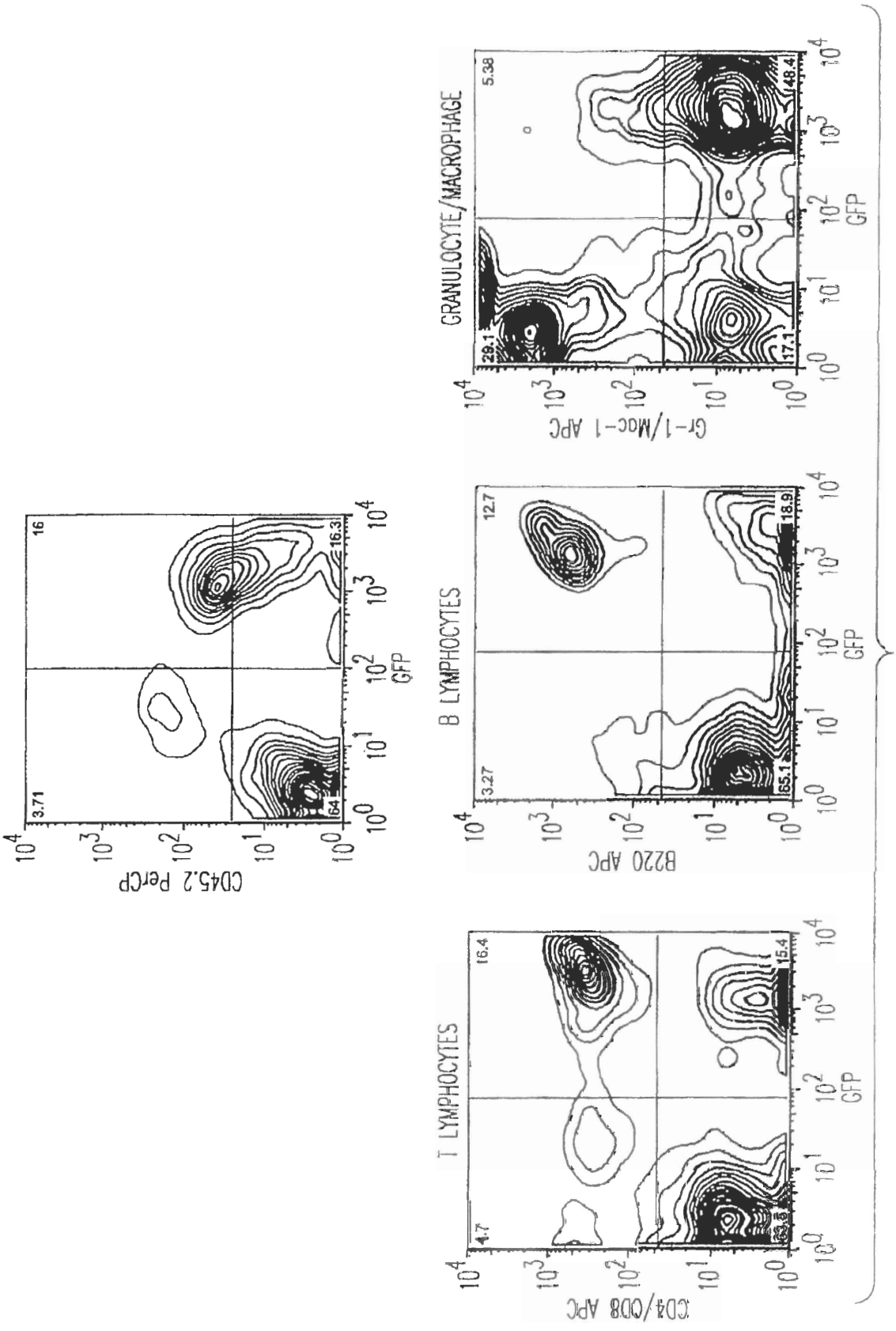

CD45.2 PerCP
GFP
3.71
64
16
16.3
B220 APC
3.27
65.1
12.7
18.9
B LYMPHOCYTES
Gr-1/Mac-1 APC
29.1
17.1
5.38
48.4
GRANULOCYTE/MACROPHAGE
CD4/CD8 APC
4.7
16.4
15.4
T LYMPHOCYTES

FIG. 5B

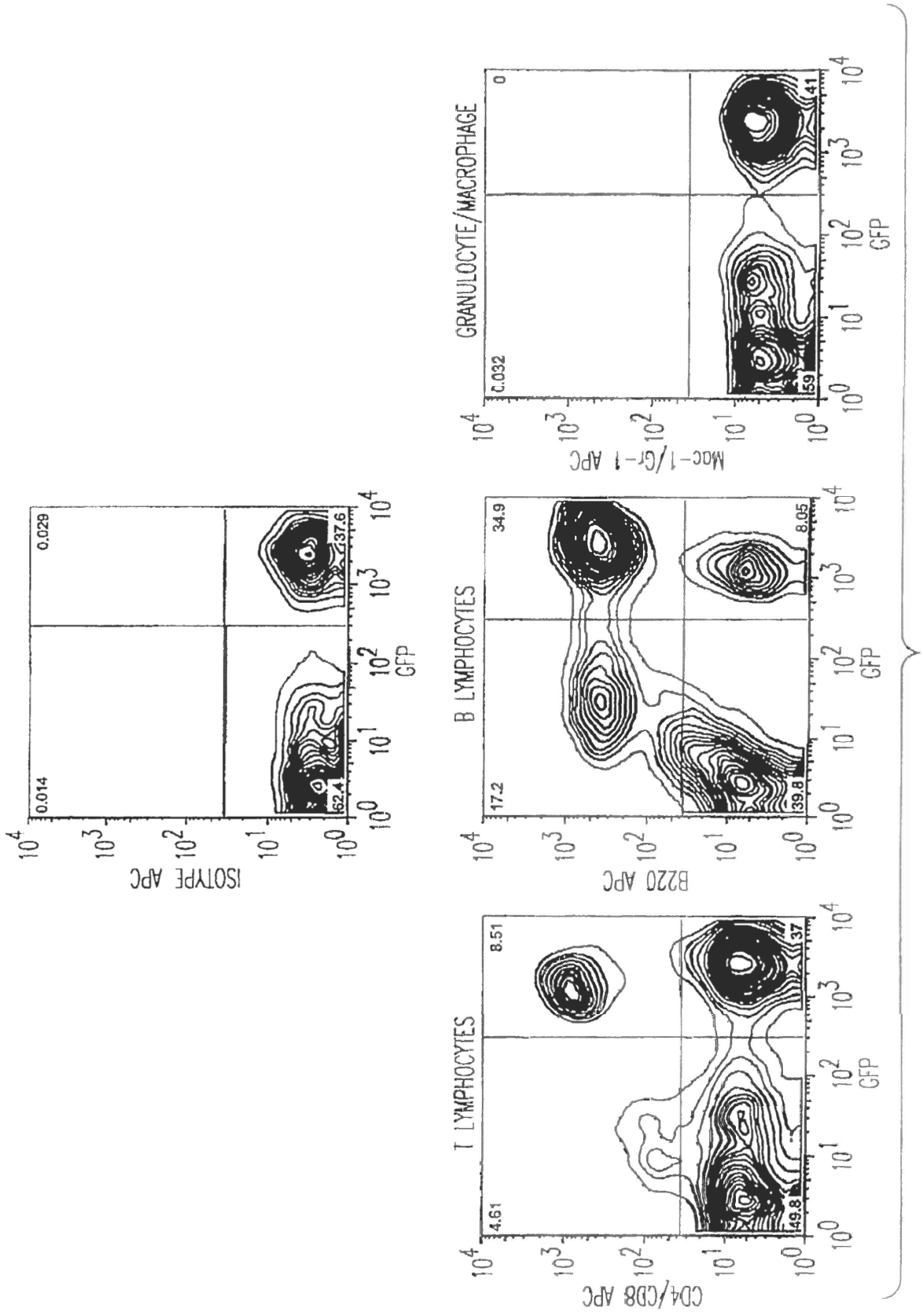

T LYMPHOCYTES
B LYMPHOCYTES
GRANULOCYTE/MACROPHAGE
ISOTYPE APC
CD4/CD8 APC
B220 APC
Mac-1/Gr-1 APC
GFP
4.61
49.8
8.51
37
17.2
39.8
34.9
8.05
0.032
59
41
0.014
62.4
0.029
37.6

FIG. 6

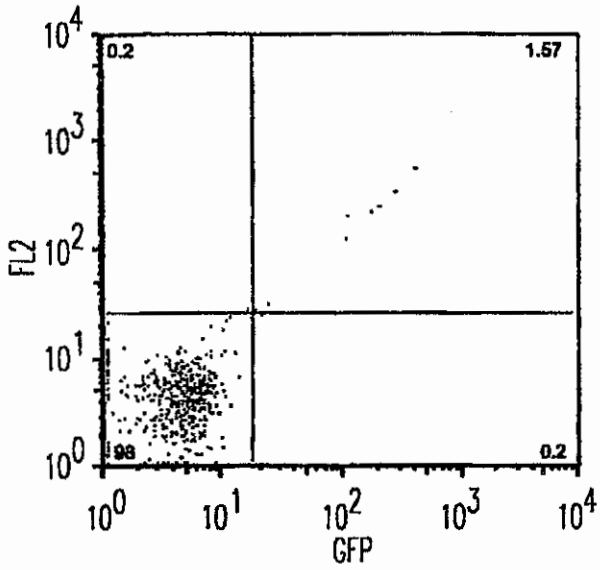


FIG. 7A

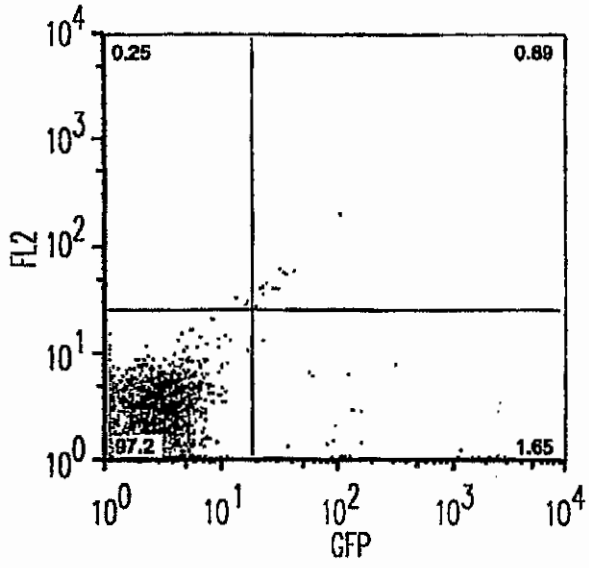


FIG. 7B