FIGURE 1

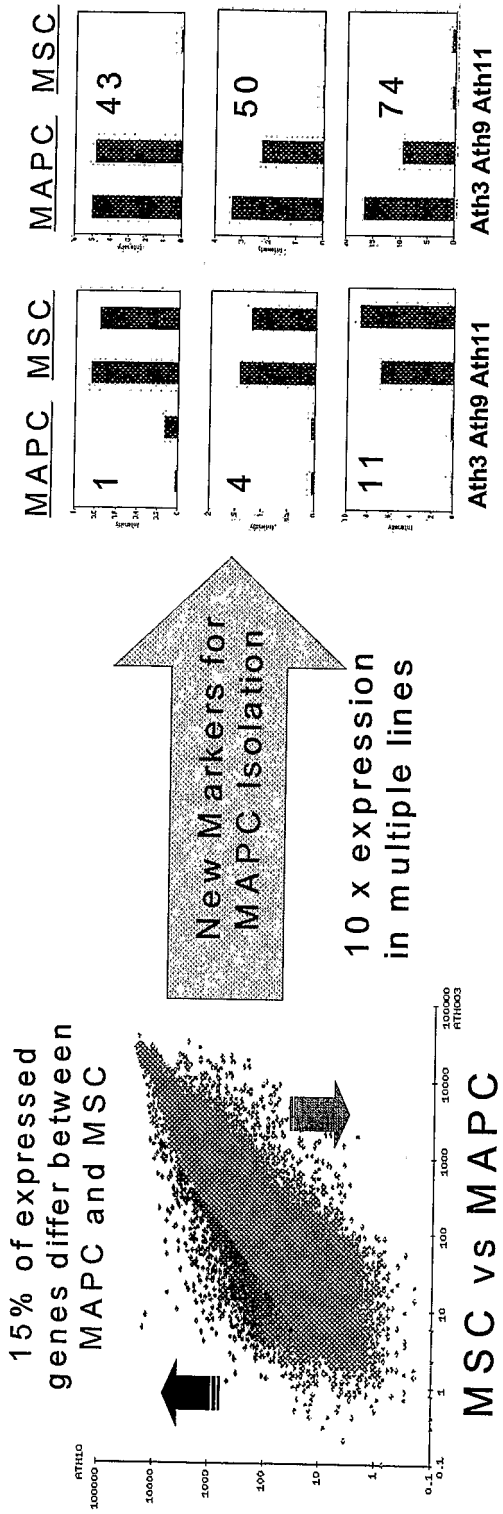

MAPC MSC
1
4
11
Ath3 Ath9 Ath11
MAPC MSC
43
50
74
Ath3 Ath9 Ath11
New Markers for MAPC Isolation
10 x expression in multiple lines
15% of expressed genes differ between MAPC and MSC
MSC vs MAPC

FIGURE 2

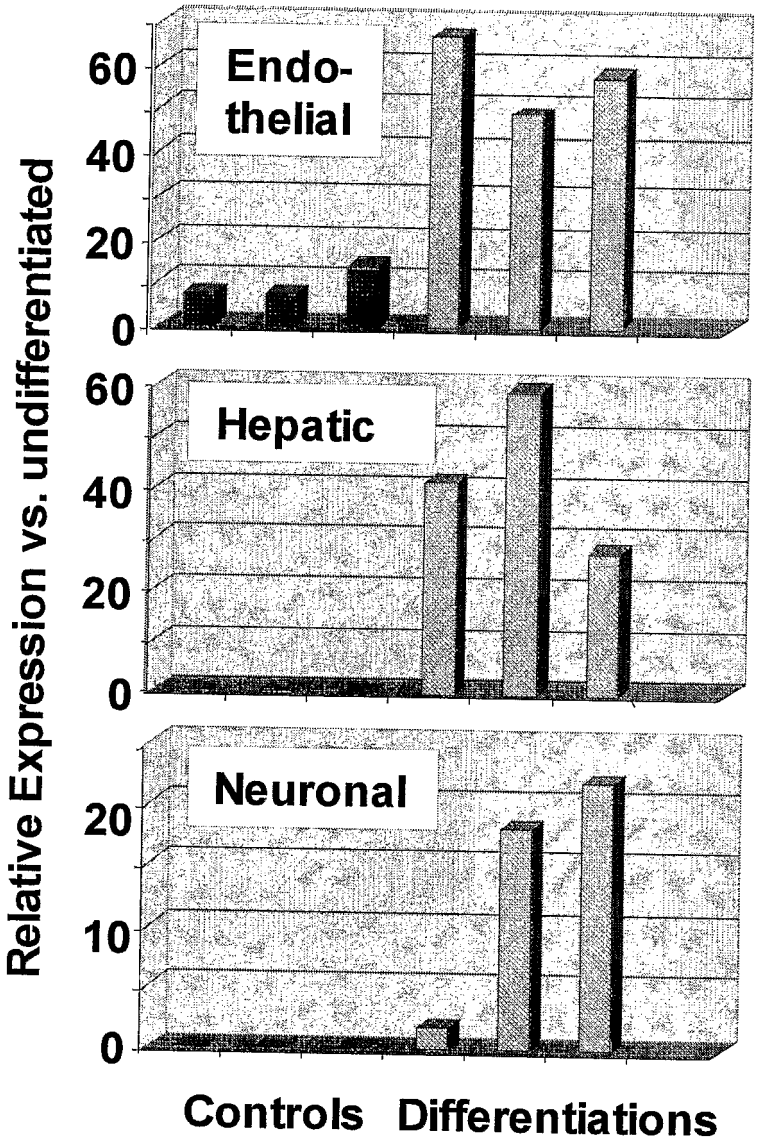

Endo-
thelial
60
40
20
0
Hepatic
60
40
20
0
Neuronal
20
10
0
Relative Expression vs. undifferentiated
Controls
Differentiations

FIGURE 3

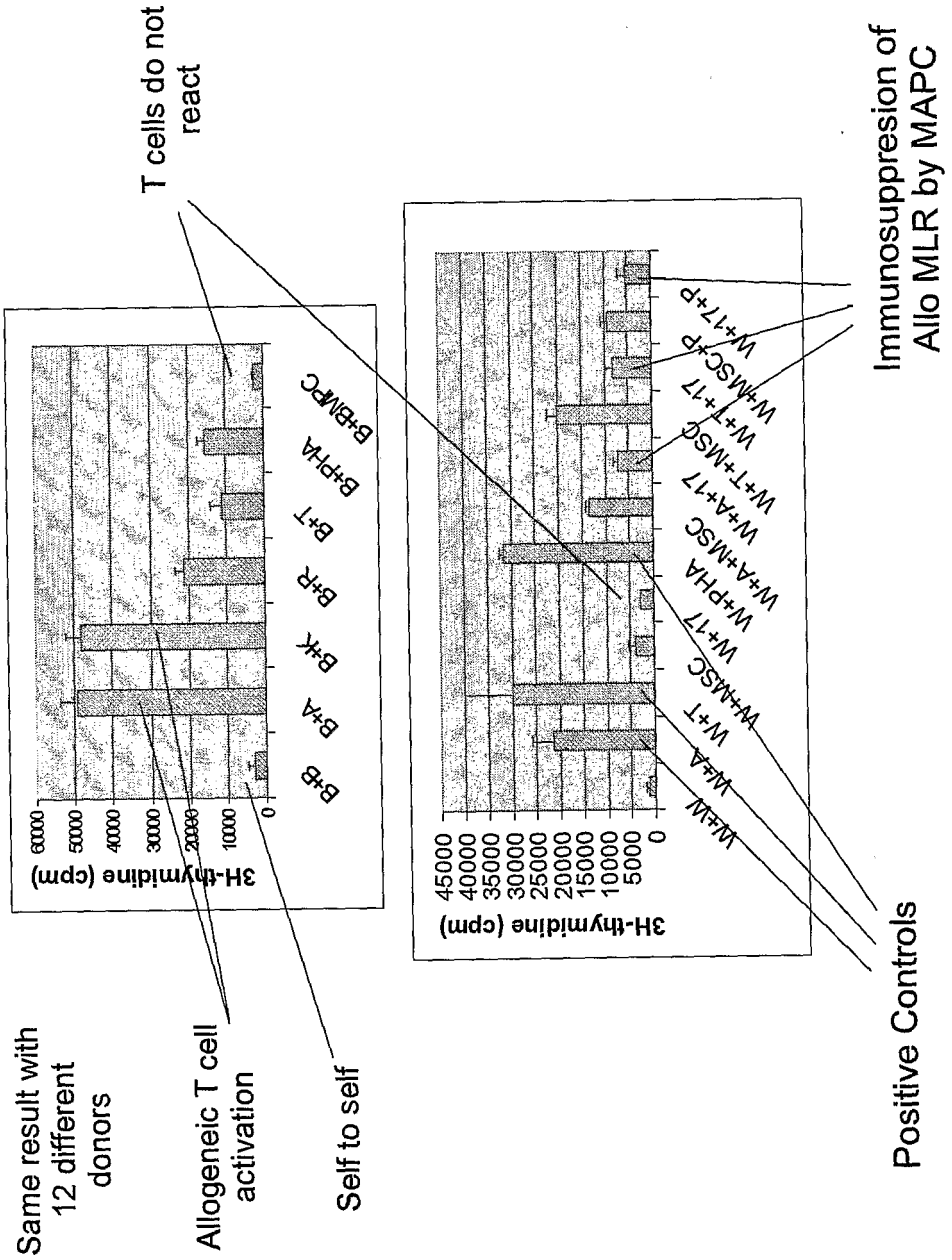
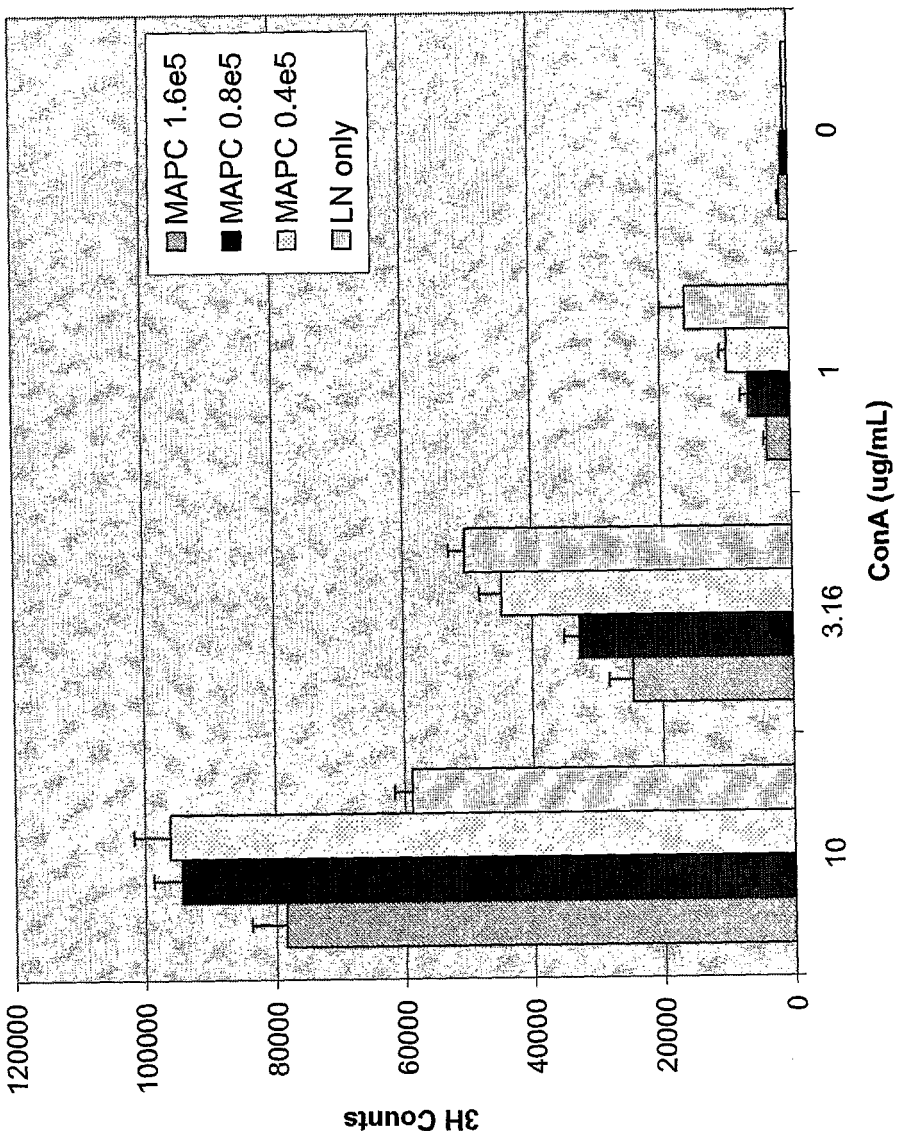
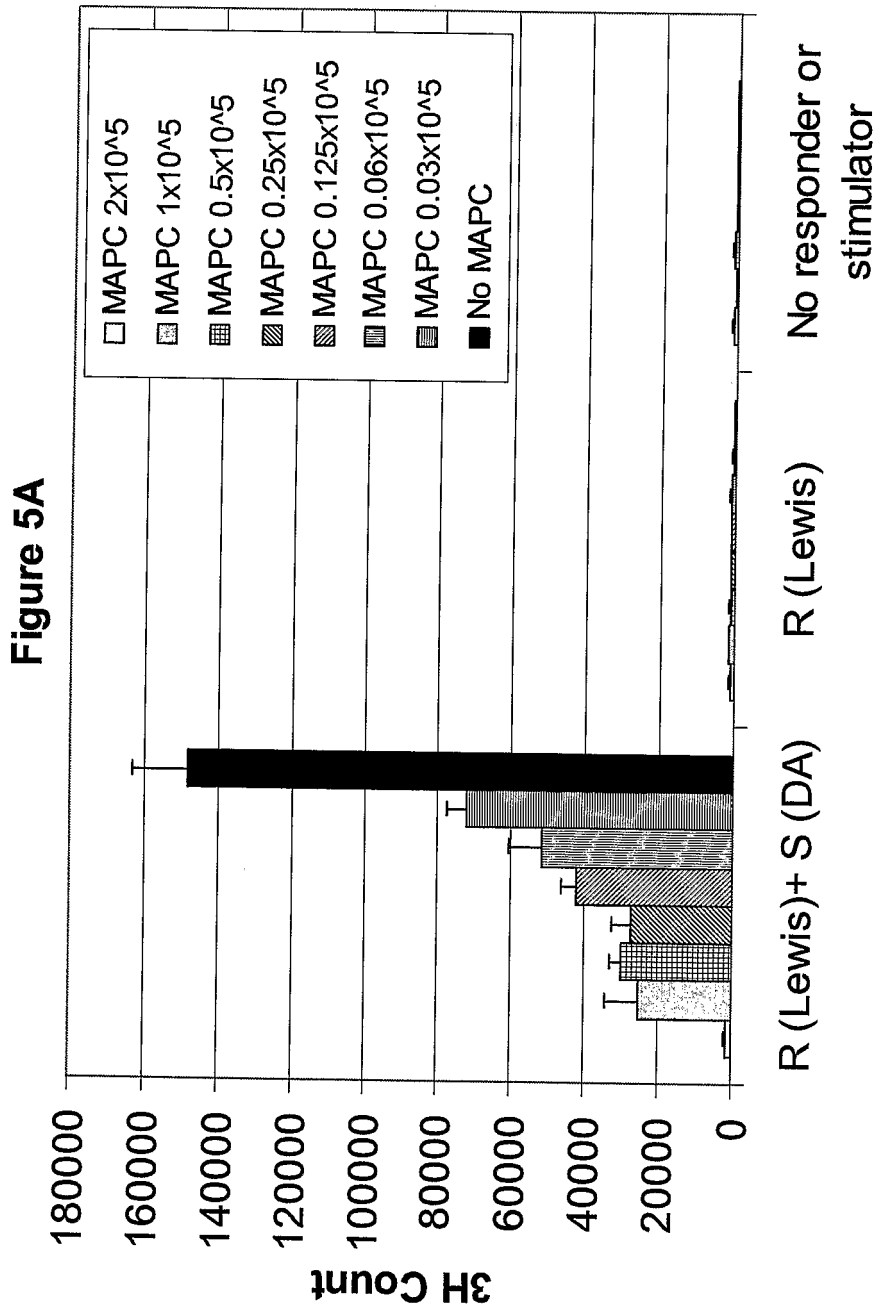

T cells do not react
Immunosuppresion of Allo MLR by MAPC
3H-thymidine (cpm)
60000
50000
40000
30000
20000
10000
0
B+B
B+A
B+K
B+R
B+T
B+PHA
B+BMPC
3H-thymidine (cpm)
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
W+W
W+A
W+T
W+MSC
W+17
W+PHA
W+A+MSC
W+A+17
W+T+MSC
W+T+17
W+MSC+P
W+17+P
Same result with 12 different donors
Allogeneic T cell activation
Self to self
Positive Controls

FIGURE 4


MAPC 1.6e5
MAPC 0.8e5
MAPC 0.4e5
LN only
3H Counts
120000
100000
80000
60000
40000
20000
0
10
3.16
1
0
ConA (ug/mL)


Figure 5A
3H Count
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
MAPC 2x10^5
MAPC 1x10^5
MAPC 0.5x10^5
MAPC 0.25x10^5
MAPC 0.125x10^5
MAPC 0.06x10^5
MAPC 0.03x10^5
No MAPC
R (Lewis)+ S (DA)
R (Lewis)
No responder or stimulator

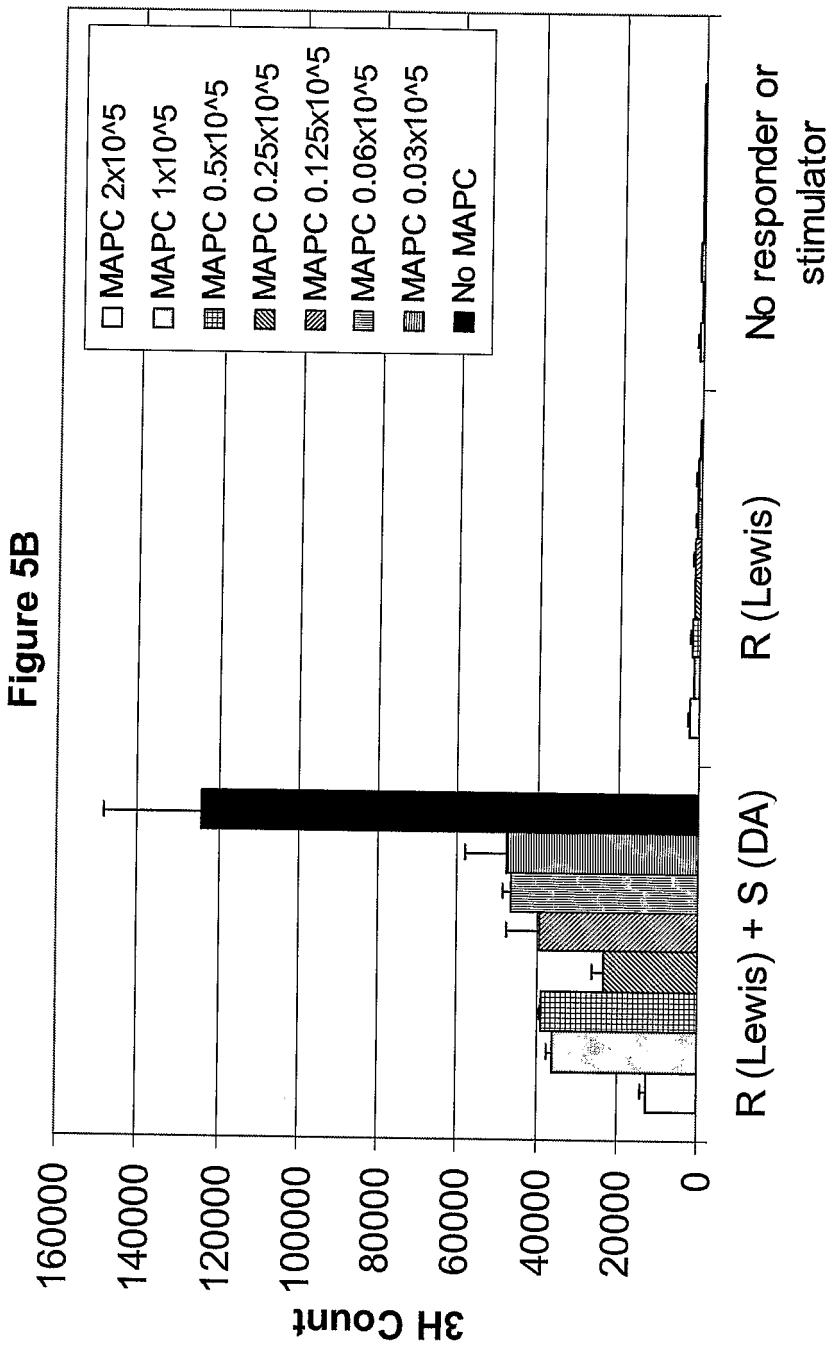

MAPC 2x10^5
MAPC 1x10^5
MAPC 0.5x10^5
MAPC 0.25x10^5
MAPC 0.125x10^5
MAPC 0.06x10^5
MAPC 0.03x10^5
No MAPC
3H Count
160000
140000
120000
100000
80000
60000
40000
20000
0
R (Lewis) + S (DA)
R (Lewis)
No responder or stimulator

Figure 5B

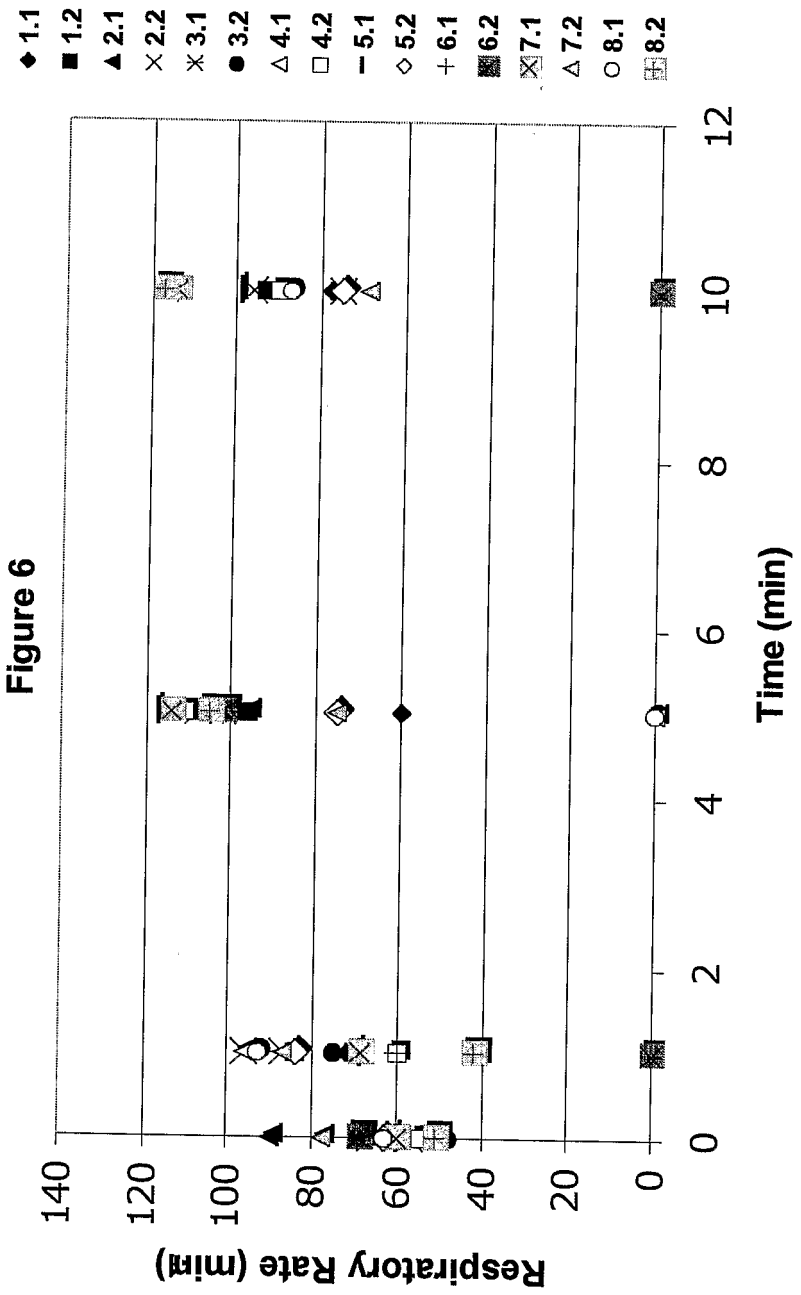

1.1
1.2
2.1
2.2
3.1
3.2
4.1
4.2
5.1
5.2
6.1
6.2
7.1
7.2
8.1
8.2
Respiratory Rate (min)
140
120
100
80
60
40
20
0
0
2
4
6
8
10
12
Time (min)

Figure 6

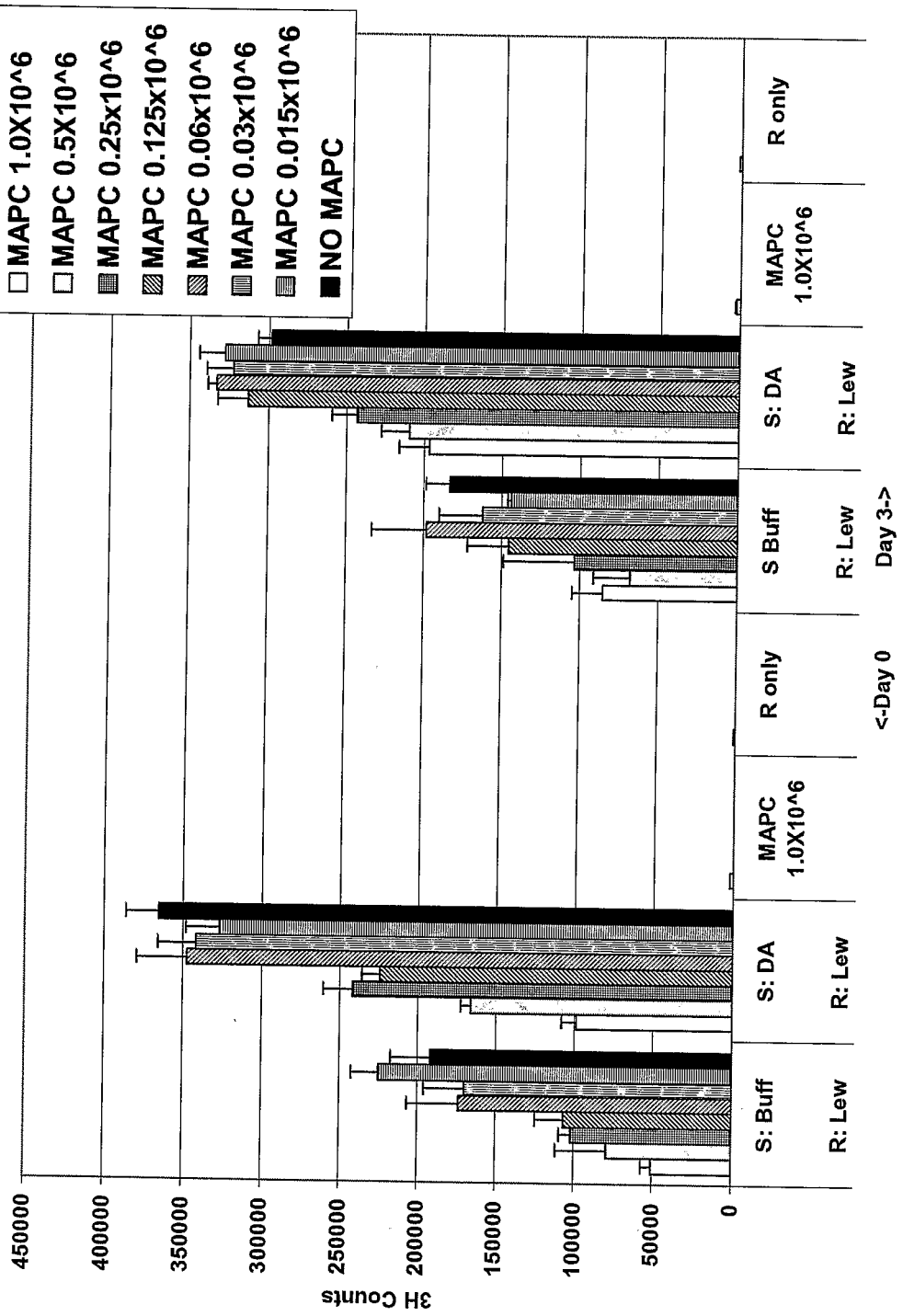

MAPC 1.0X10^6
MAPC 0.5X10^6
MAPC 0.25x10^6
MAPC 0.125x10^6
MAPC 0.06x10^6
MAPC 0.03x10^6
MAPC 0.015x10^6
NO MAPC
3H Counts
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
S: Buff
R: Lew
S: DA
R: Lew
MAPC 1.0X10^6
R only
S Buff
R: Lew
S: DA
R: Lew
MAPC 1.0X10^6
R only
<-Day 0
Day 3->

FIGURE 7

# Figure 8

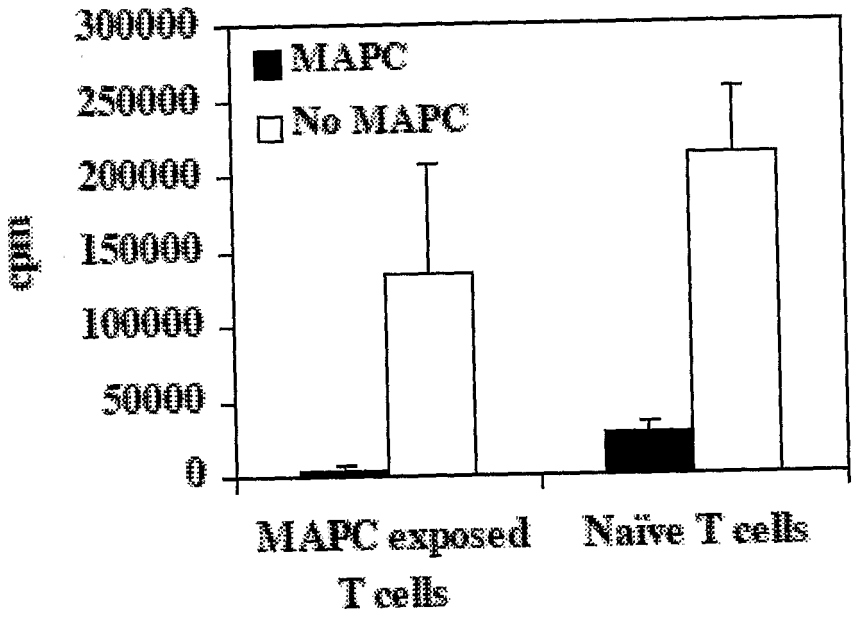
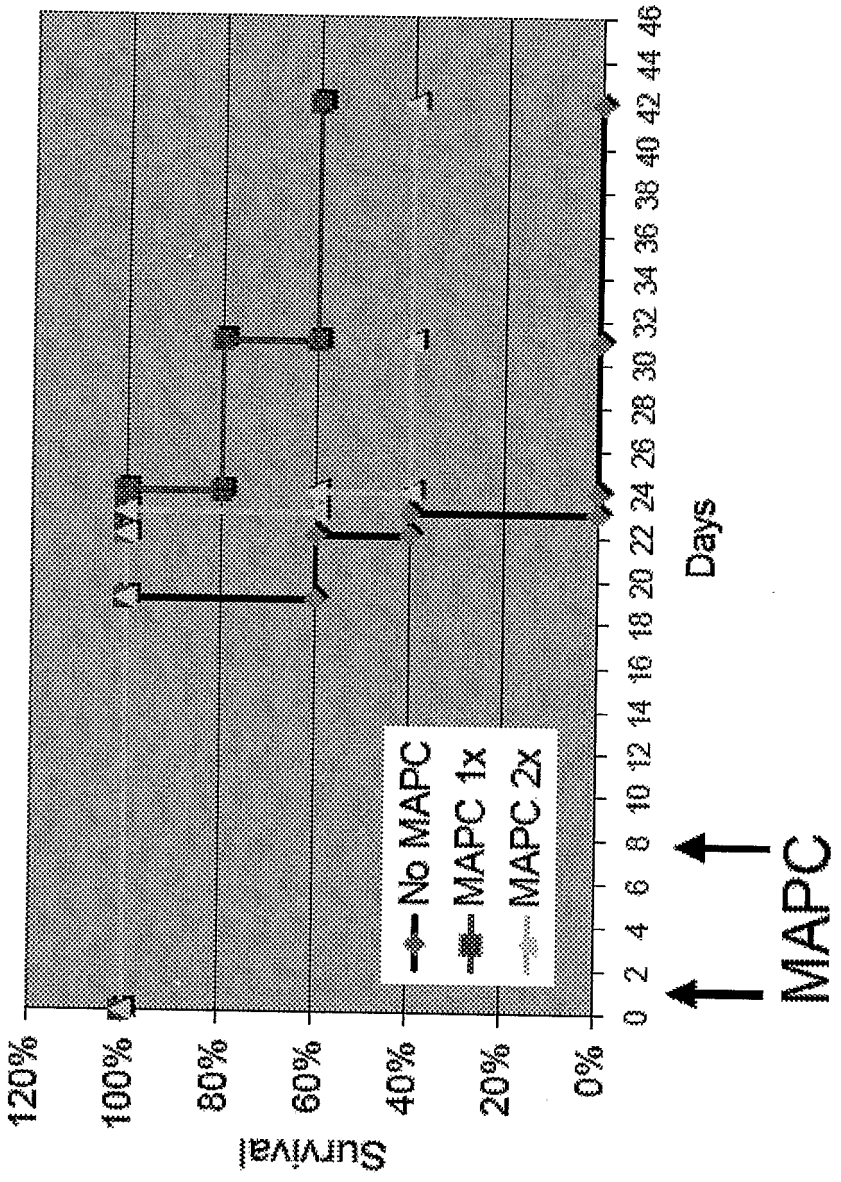

300000
250000
200000
150000
100000
50000
0
MAPC
No MAPC
MAPC exposed T cells
Naïve T cells

**Figure 9**


120%
100%
80%
60%
40%
20%
0%
Survival
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46
Days
No MAPC
MAPC 1x
MAPC 2x
MAPC