FIGURE 1

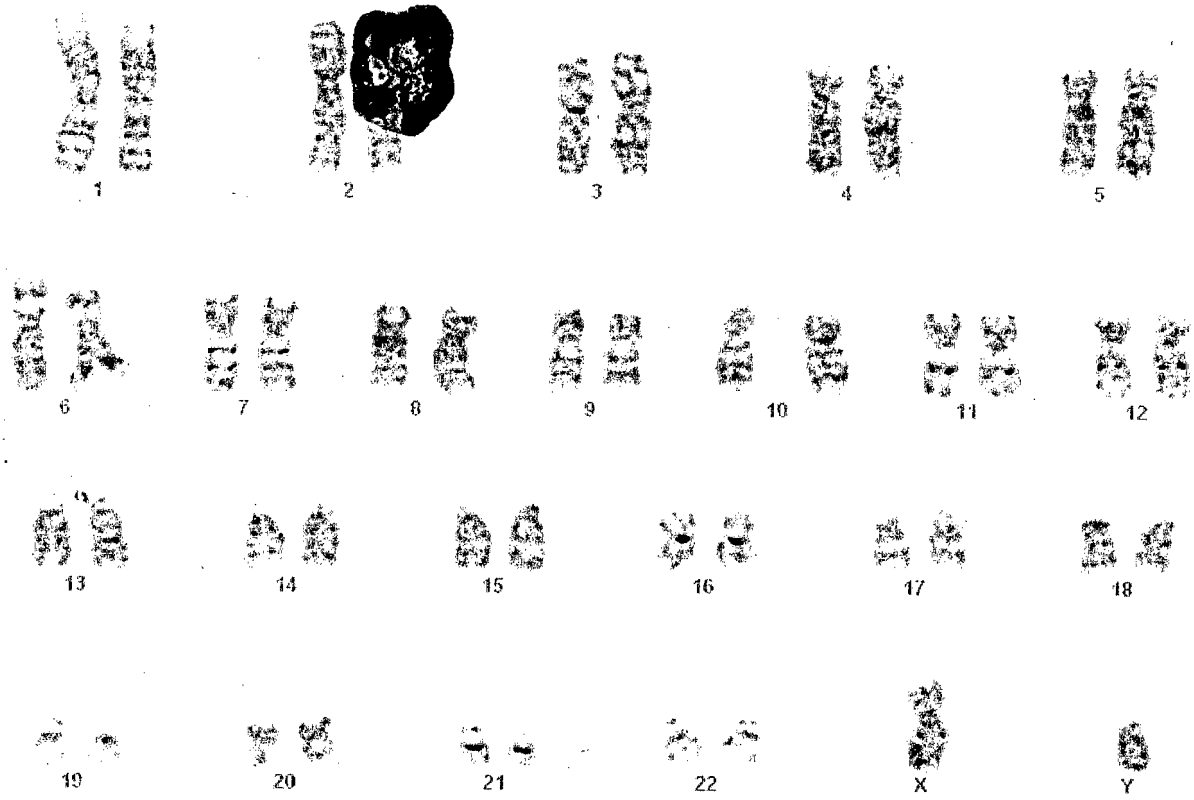


FIGURE 2

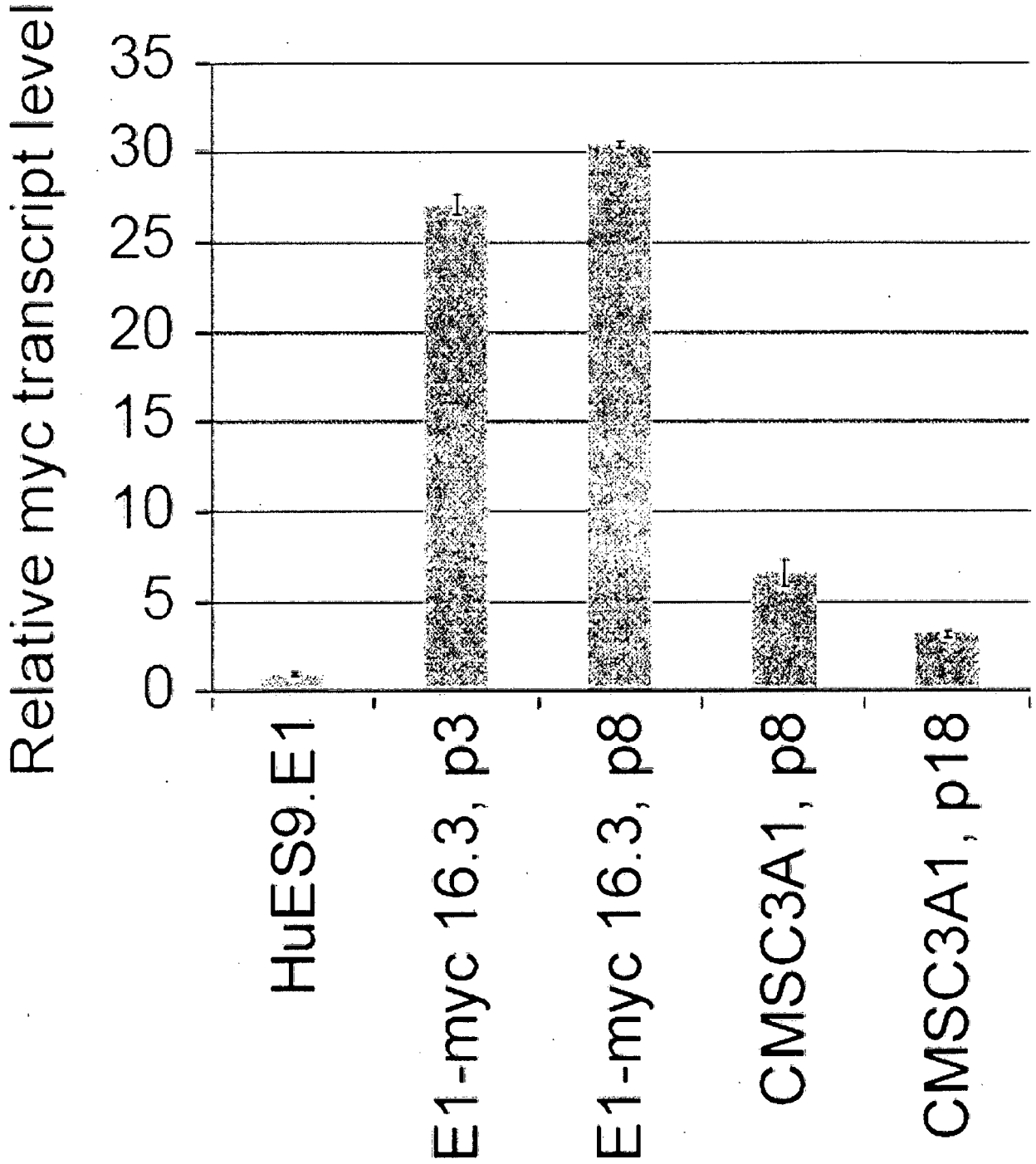

Relative myc transcript level
35
30
25
20
15
10
5
0
HuES9.E1
E1-myc 16.3, p3
E1-myc 16.3, p8
CMSC3A1, p8
CMSC3A1, p18

FIGURE 3

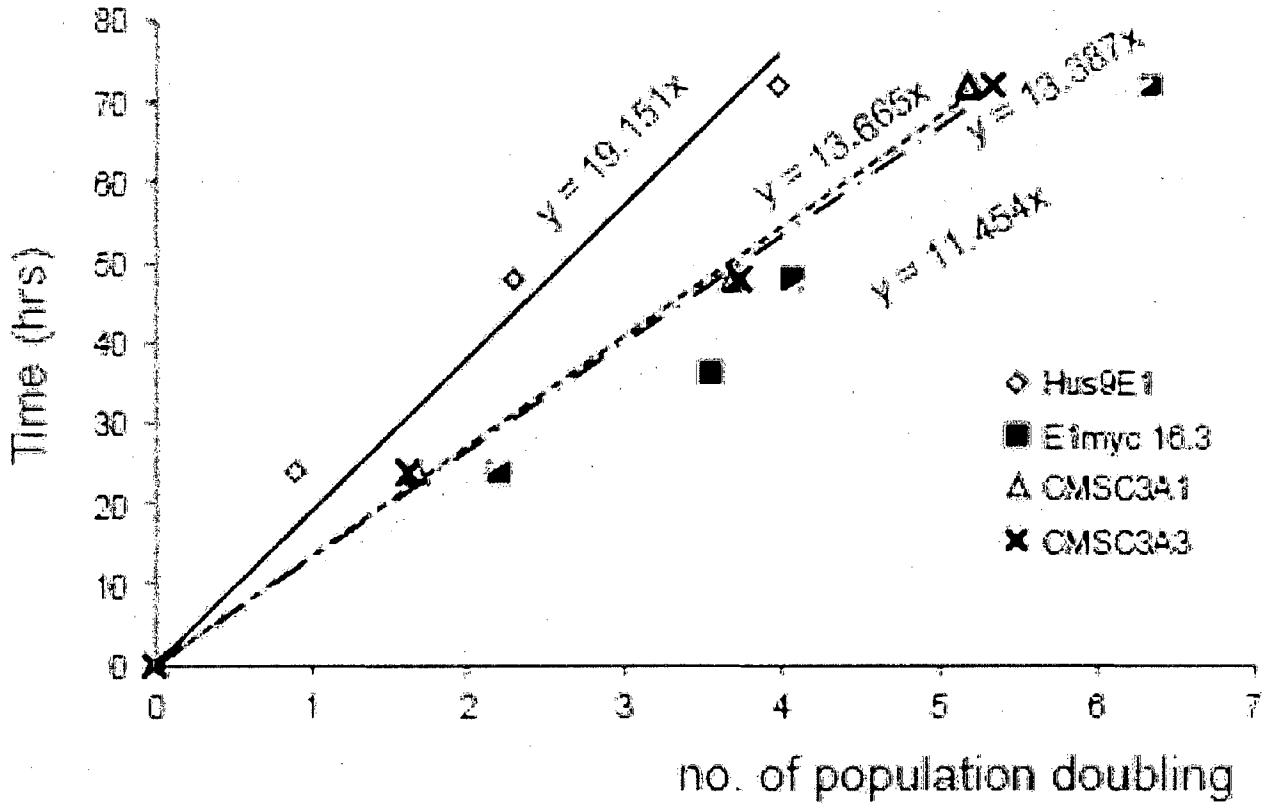

Time (hrs)
no. of population doubling
y = 19.151x
y = 13.665x
y = 13.387x
y = 11.454x
Hus9E1
E1myc 16.3
CMSC3A1
CMSC3A3
0
10
20
30
40
50
60
70
80
0
1
2
3
4
5
6
7

FIGURE 4

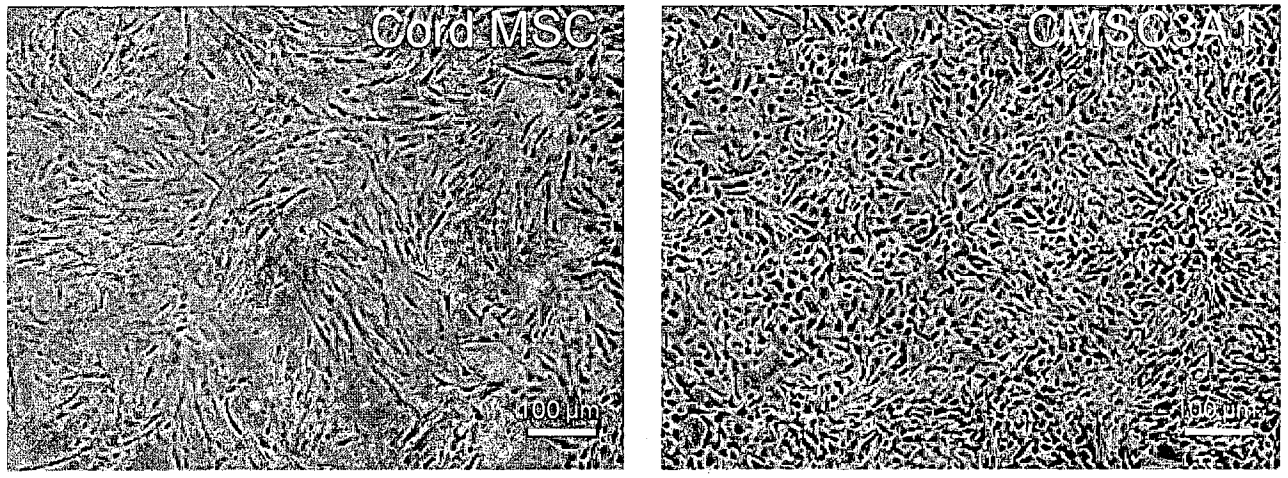


FIGURE 5

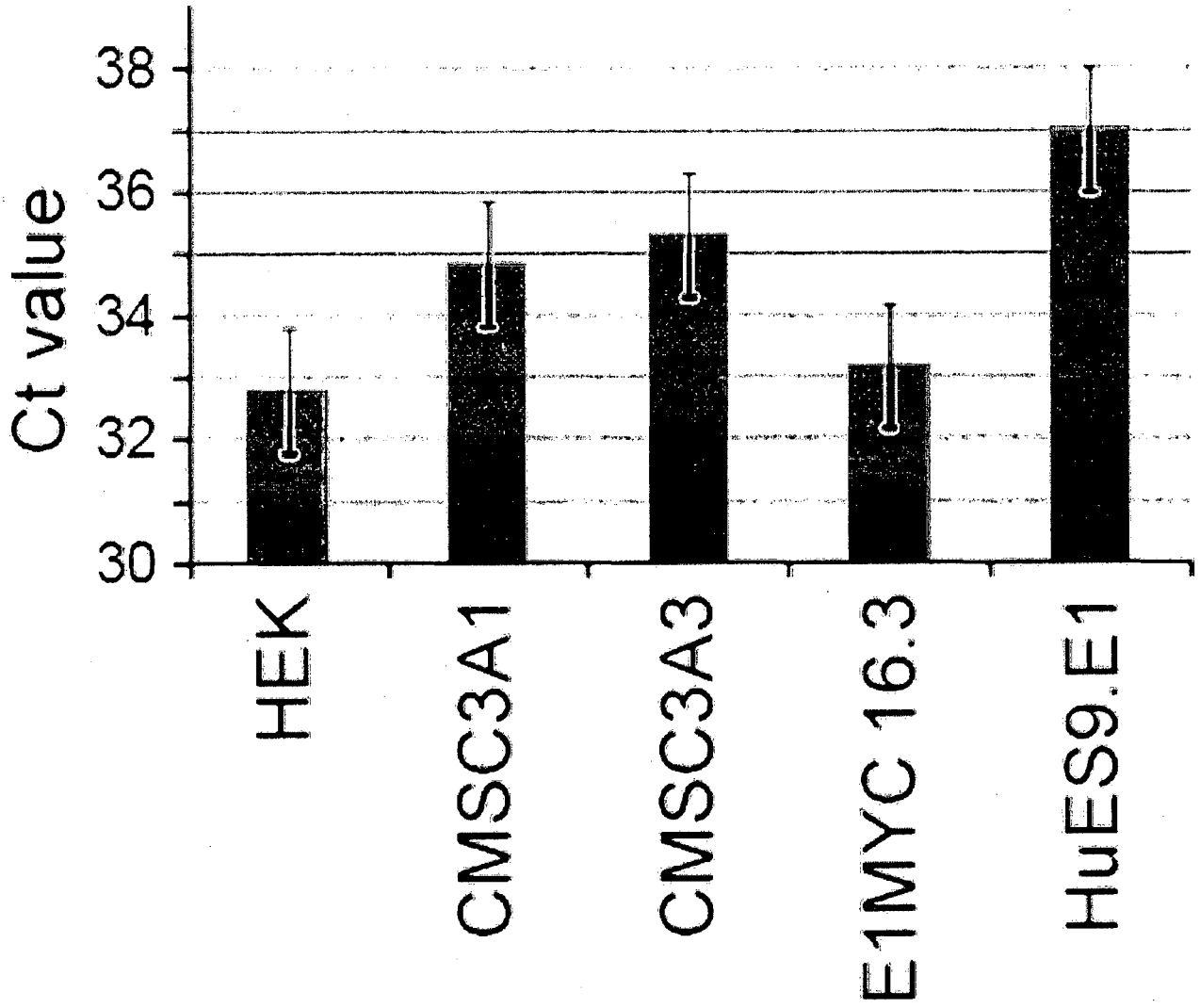


FIGURE 6

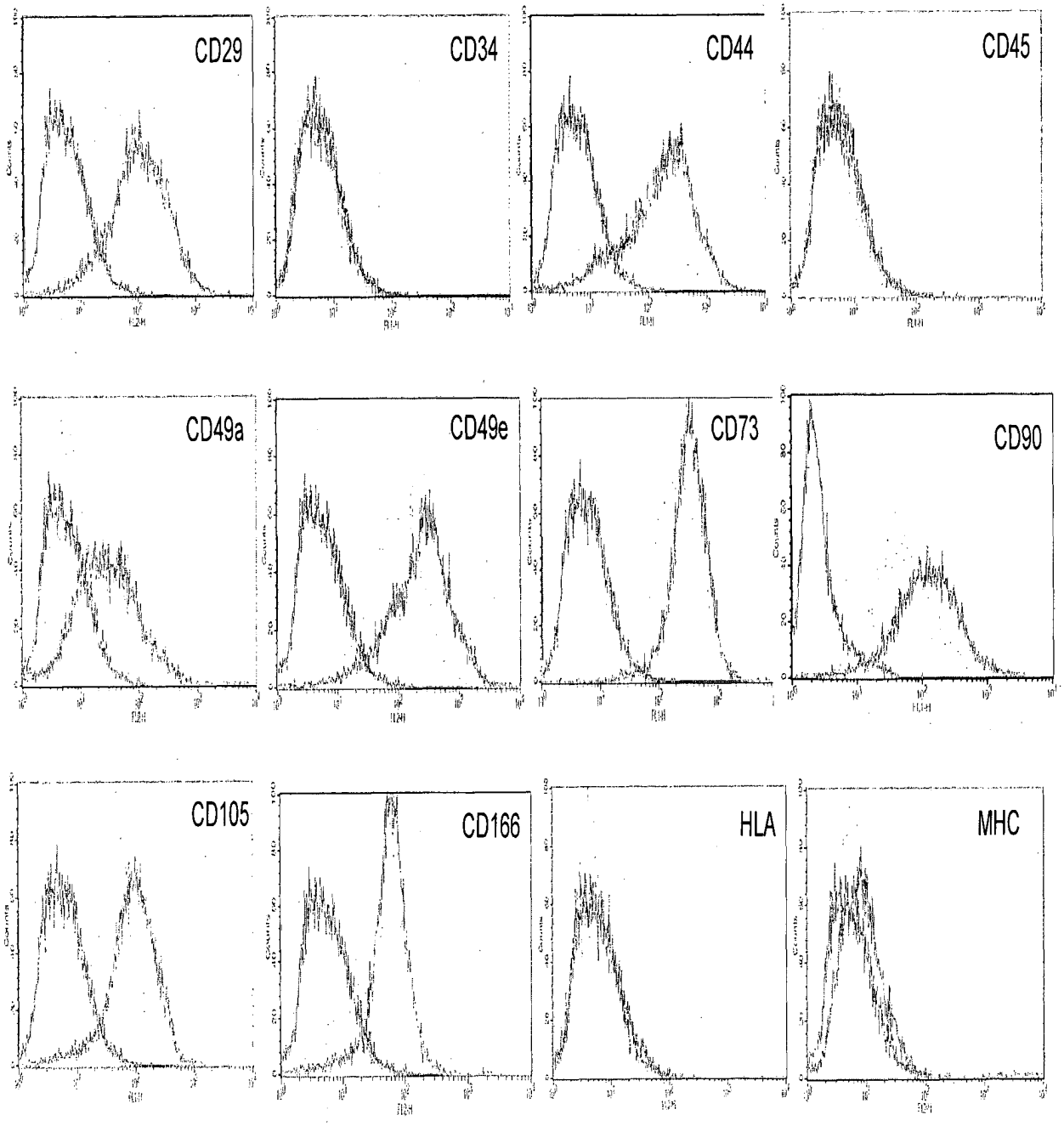

CD29
CD34
CD44
CD45
CD49a
CD49e
CD73
CD90
CD105
CD166
HLA
MHC

FIGURE 7

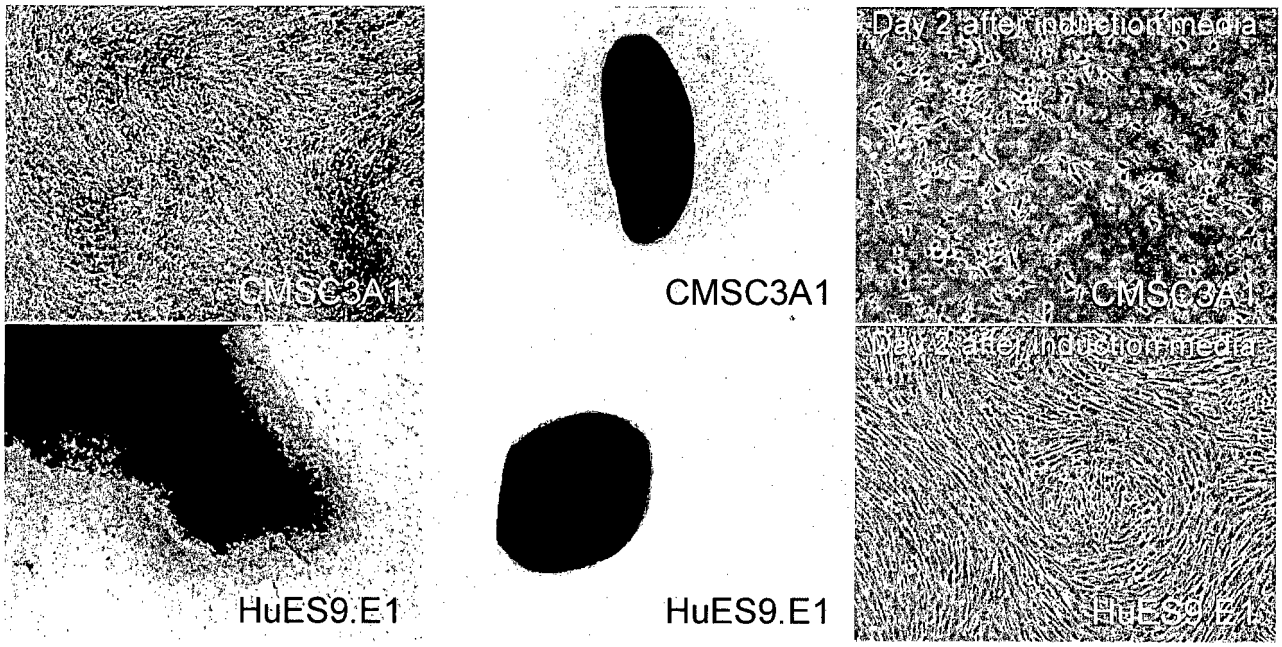

CMSC3A1
HuES9.E1
CMSC3A1
HuES9.E1
Day 2 after induction media
CMSC3A1
Day 2 after induction media
HuES9.E1
osteogenesis
chondrogenesis
angiogenesis

FIGURE 8

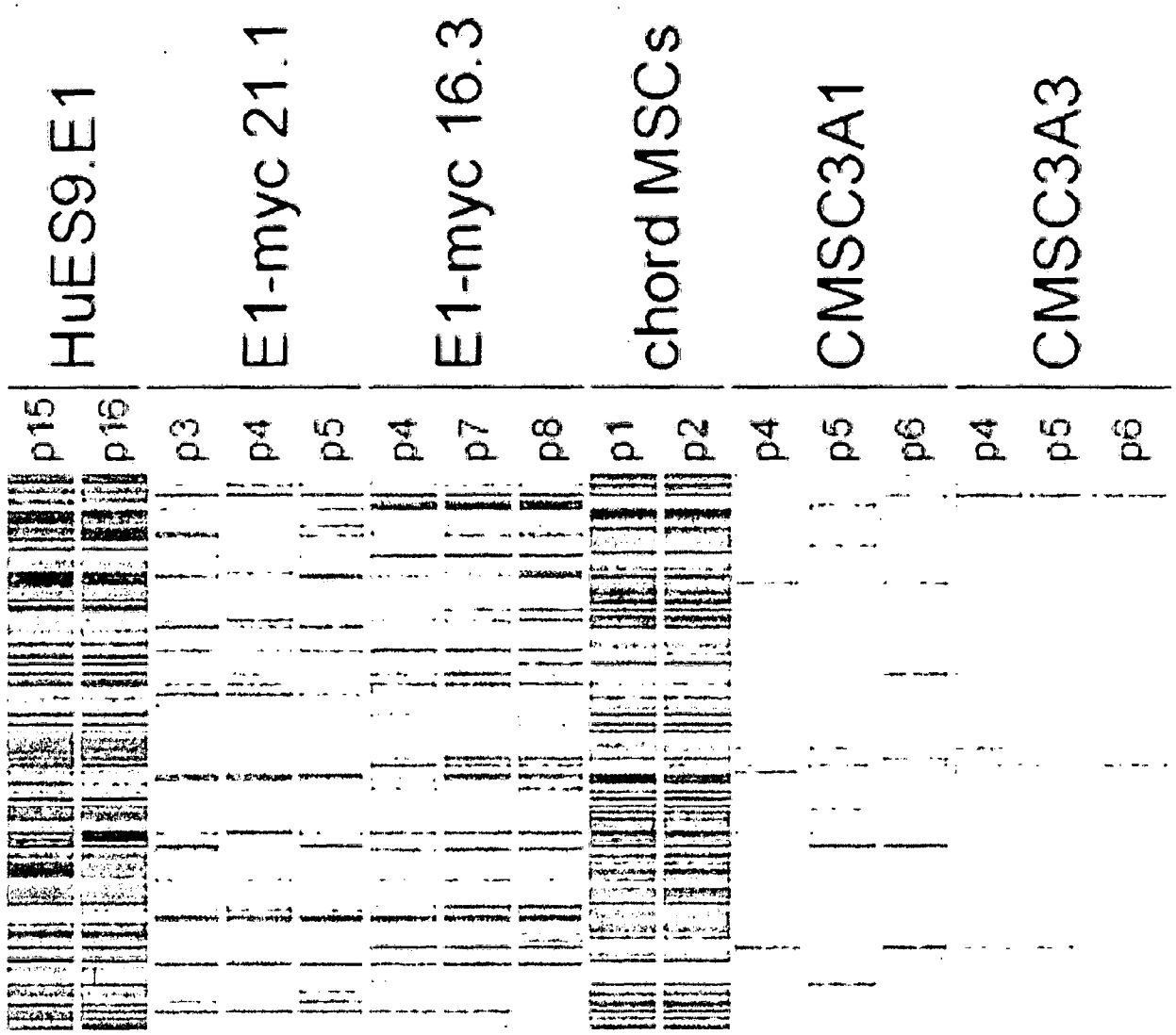

HuES9.E1
E1-myc 21.1
E1-myc 16.3
chord MSCs
CMSC3A1
CMSC3A3
p15
p16
p3
p4
p5
p4
p7
p8
p1
p2
p4
p5
p6
p4
p5
p6

FIGURE 9

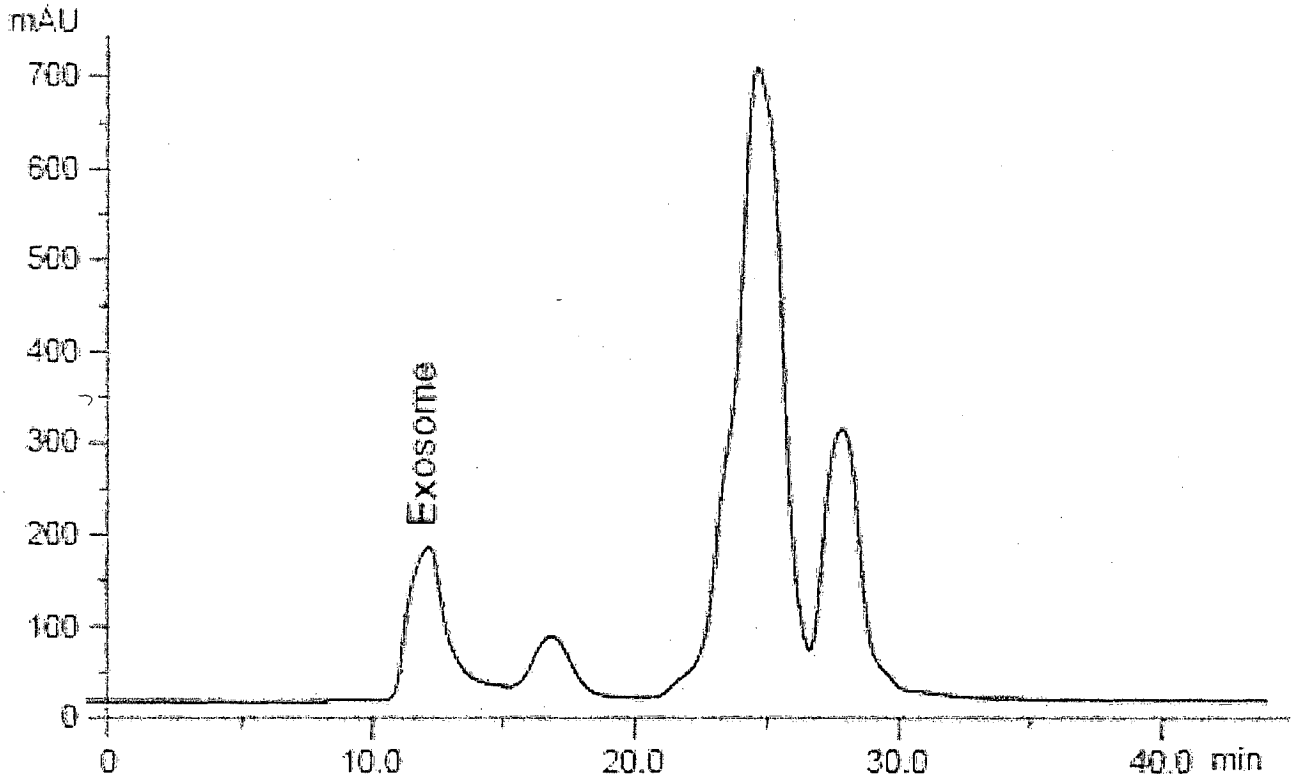


FIGURE 10

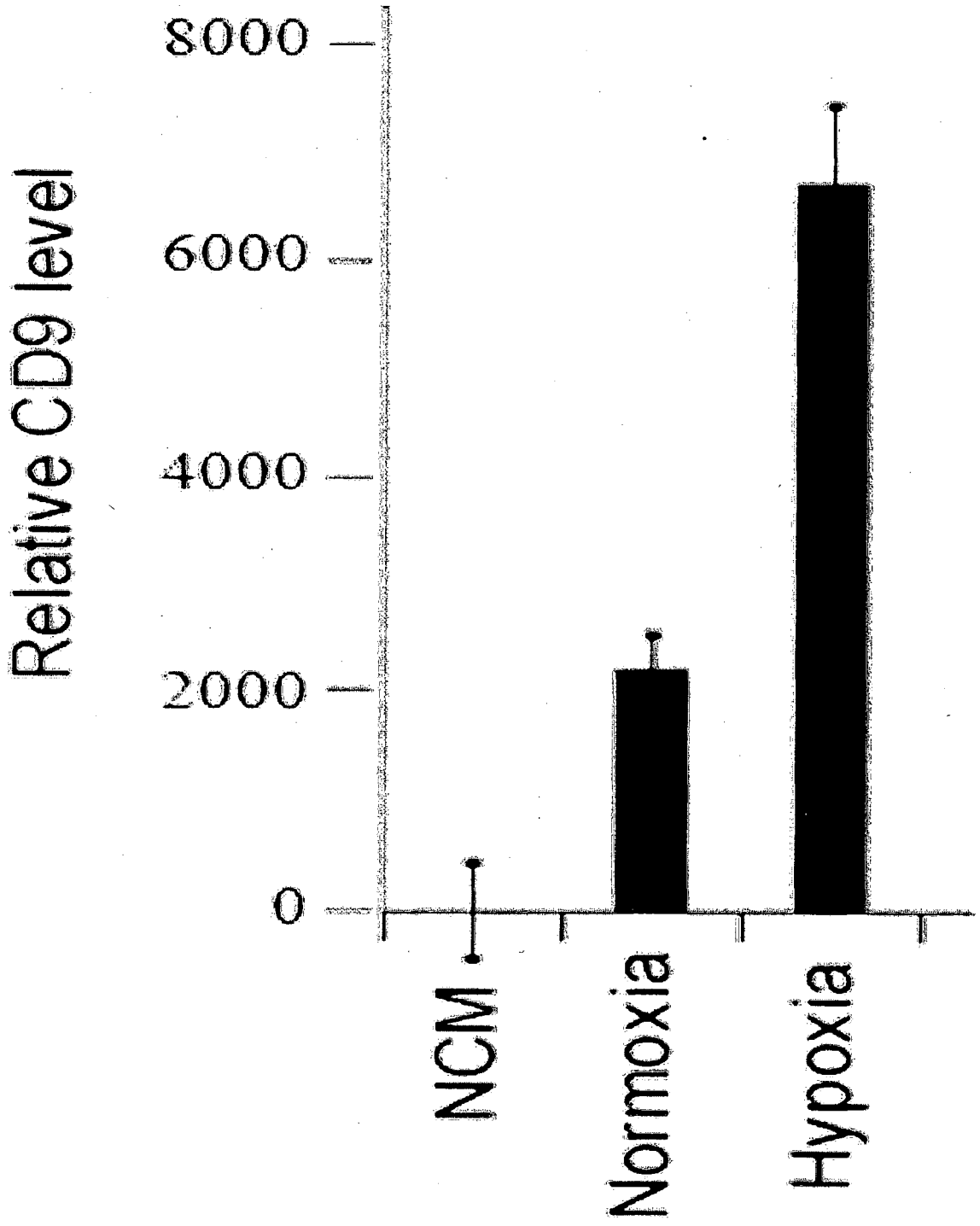

8000
6000
4000
2000
0
Relative CD9 level
NCM
Normoxia
Hypoxia

FIGURE 11

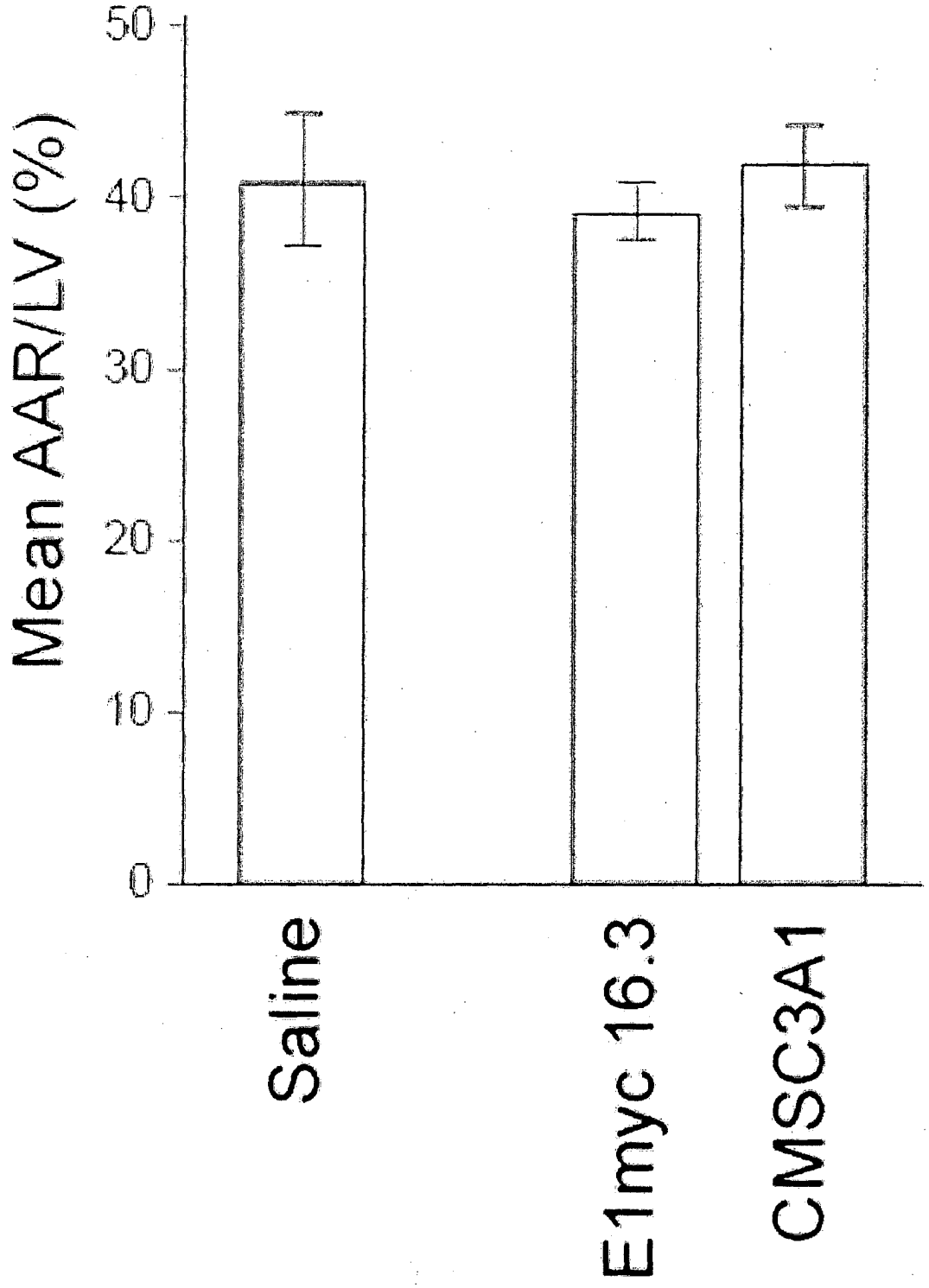


FIGURE 11 (CONTINUED)

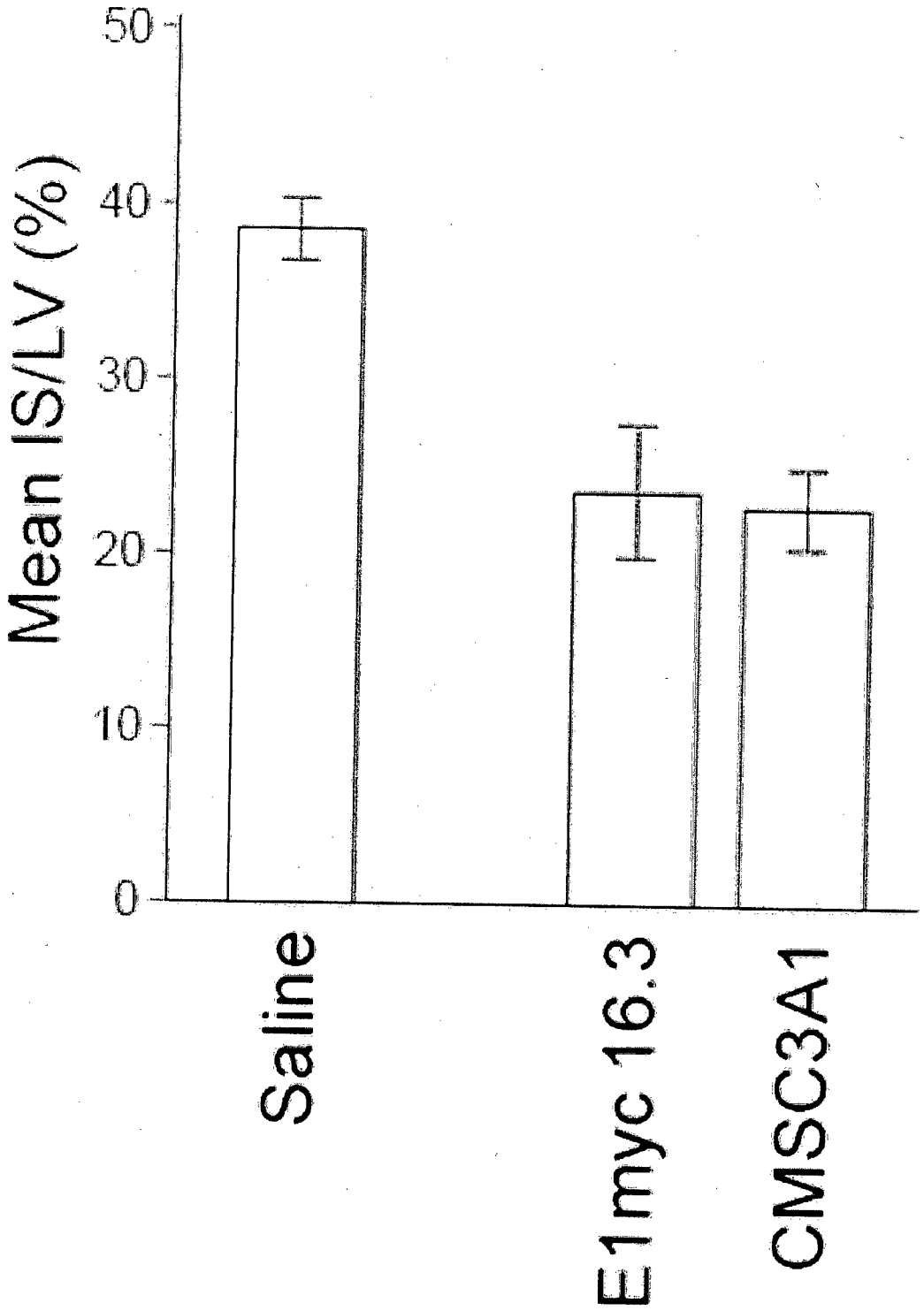
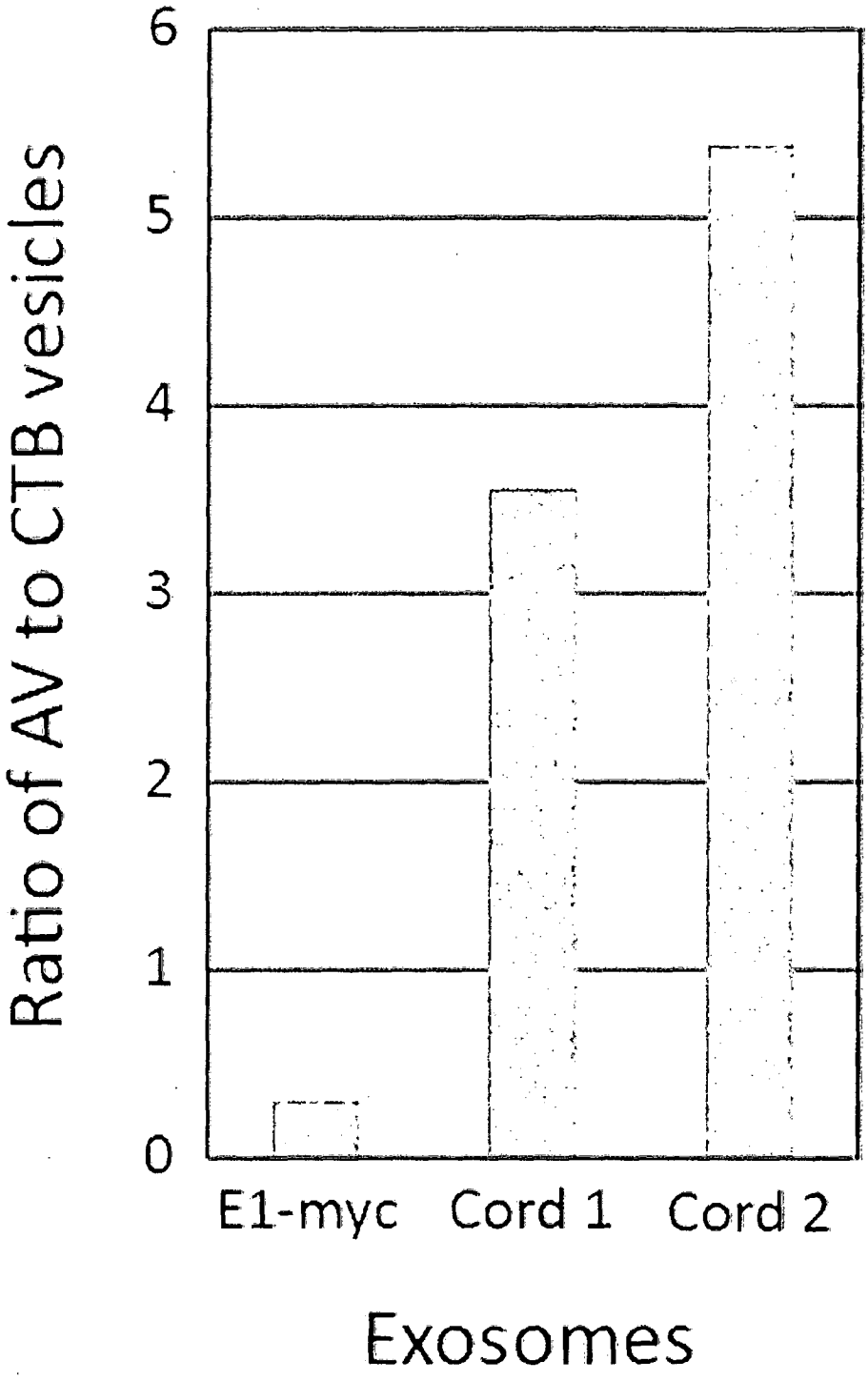


FIGURE 12


Ratio of AV to CTB vesicles
6
5
4
3
2
1
0
E1-myc
Cord 1
Cord 2
Exosomes