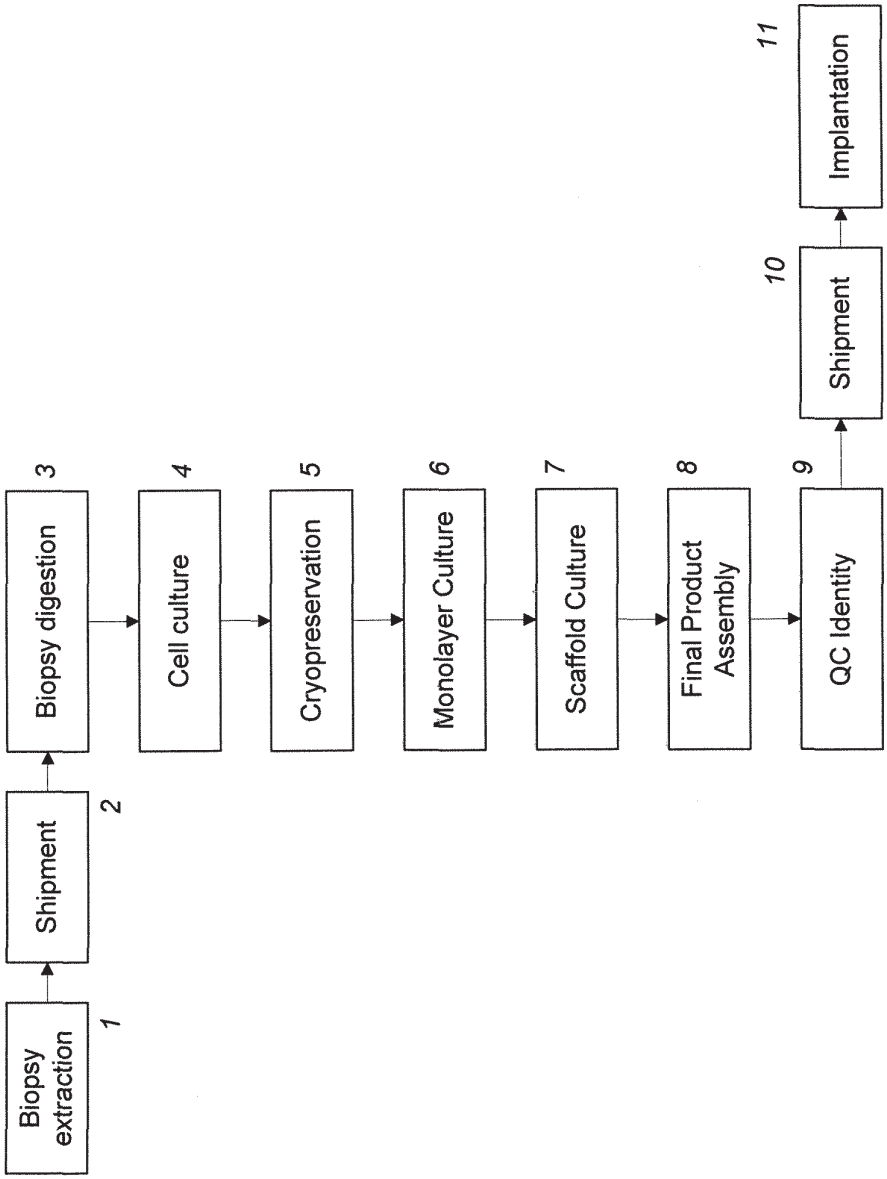

Biopsy extraction
1
Shipment
2
Biopsy digestion
3
Cell culture
4
Cryopreservation
5
Monolayer Culture
6
Scaffold Culture
7
Final Product Assembly
8
QC Identity
9
Shipment
10
Implantation
11

Fig. 1

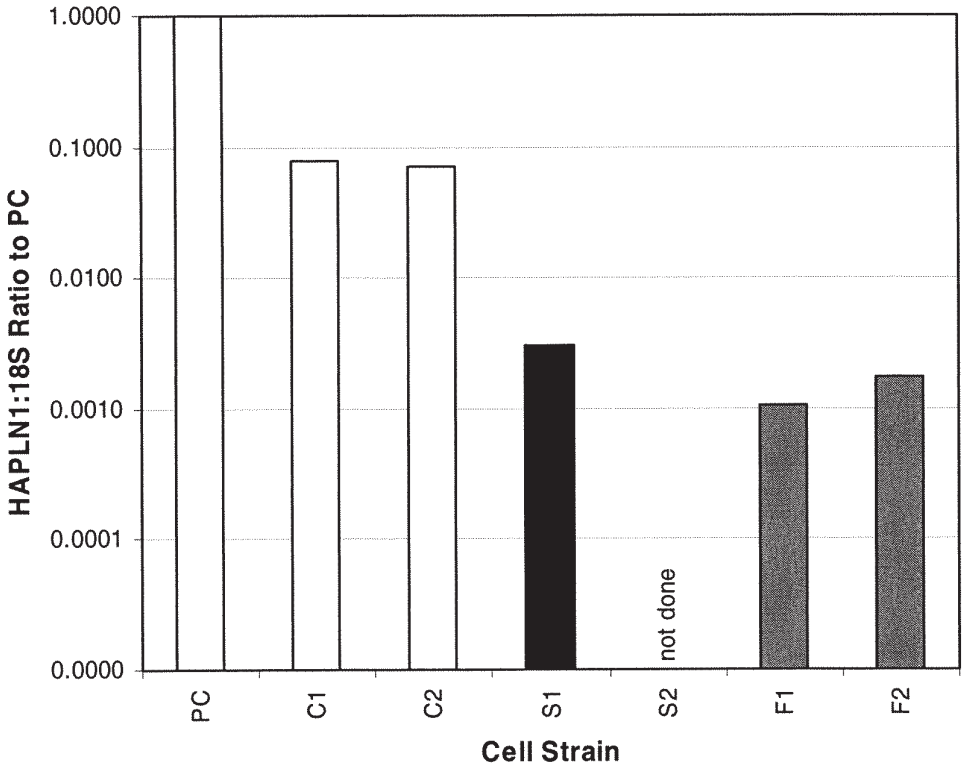

1.0000
0.1000
0.0100
0.0010
0.0001
0.0000
HAPLN1:18S Ratio to PC
not done
PC
C1
C2
S1
S2
F1
F2
Cell Strain

Fig. 2

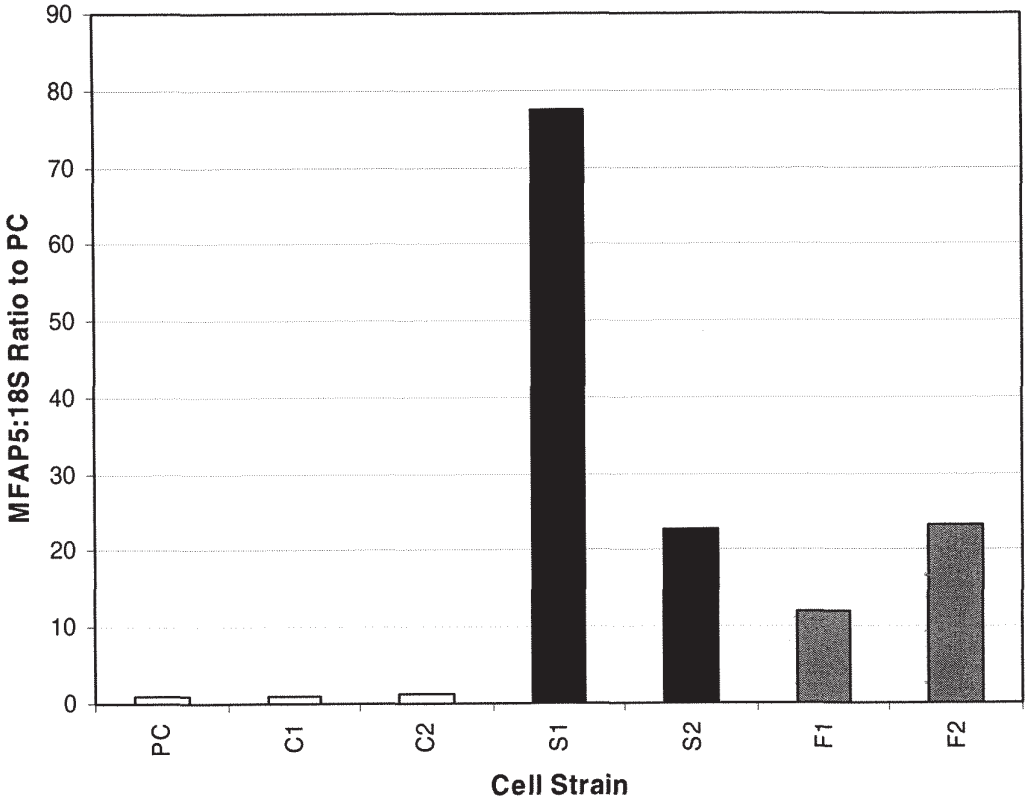

90
80
70
60
50
40
30
20
10
0
MFAP5:18S Ratio to PC
PC
C1
C2
S1
S2
F1
F2
Cell Strain

Fig. 3

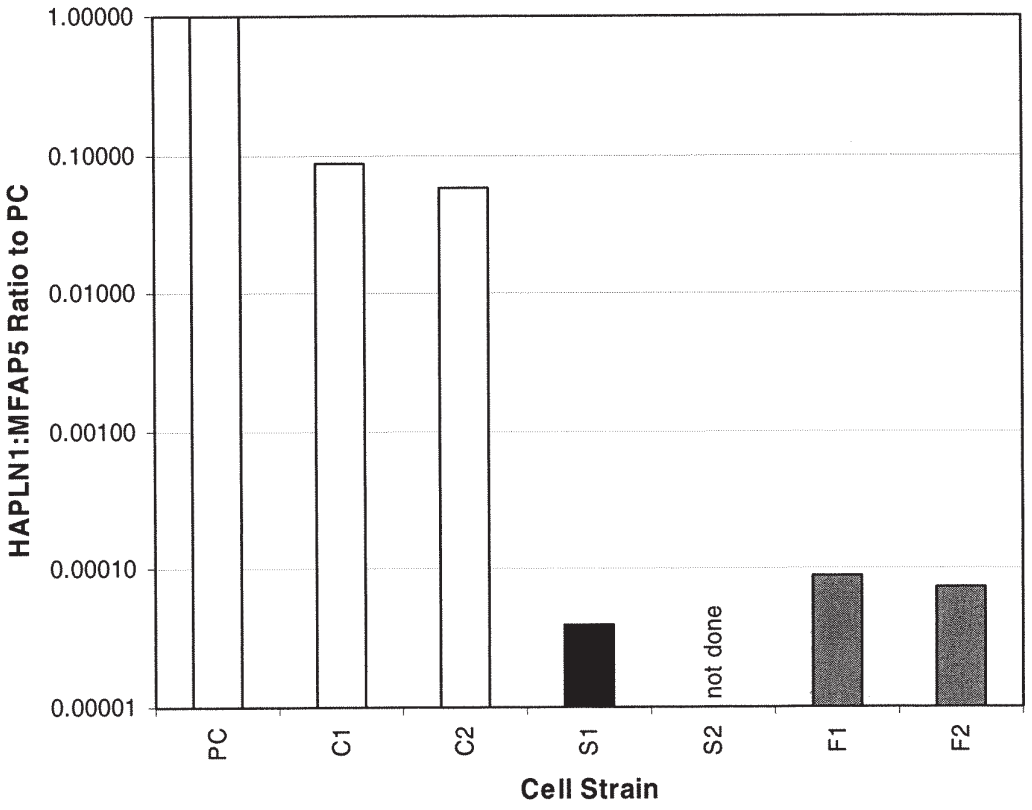

1.00000
0.10000
0.01000
0.00100
0.00010
0.00001
HAPLN1:MFAP5 Ratio to PC
not done
PC
C1
C2
S1
S2
F1
F2
Cell Strain

Fig. 4

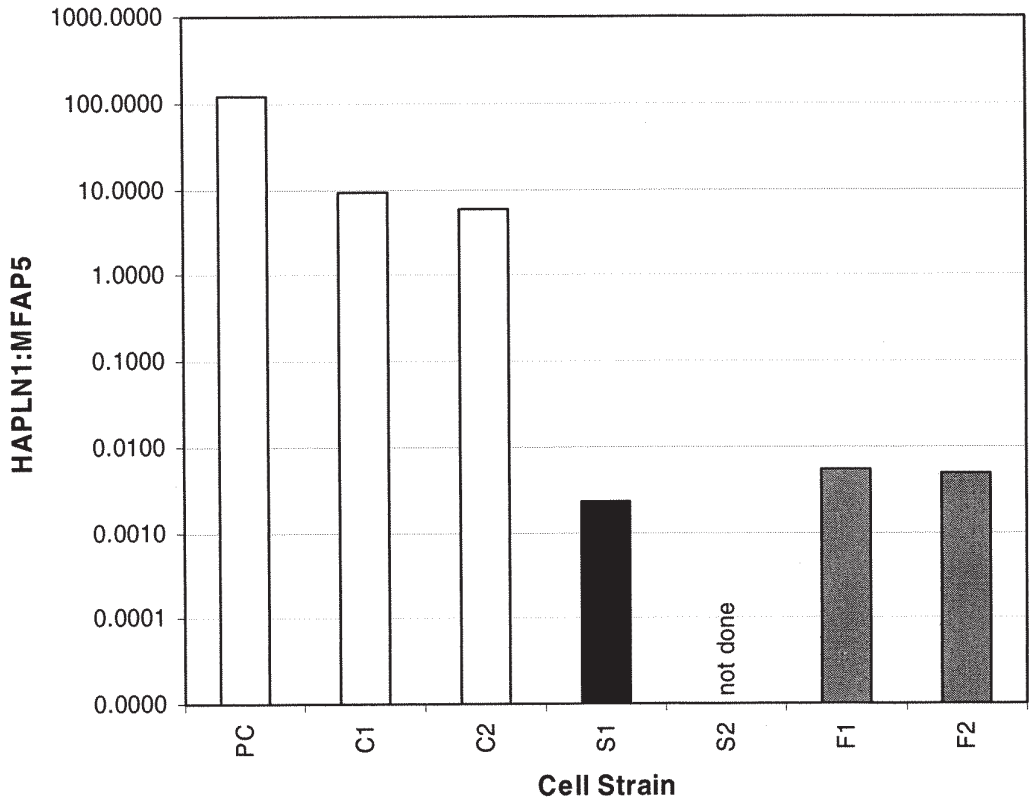

1000.0000
100.0000
10.0000
1.0000
0.1000
0.0100
0.0010
0.0001
0.0000
HAPLN1:MFAP5
not done
PC
C1
C2
S1
S2
F1
F2
Cell Strain

Fig. 5

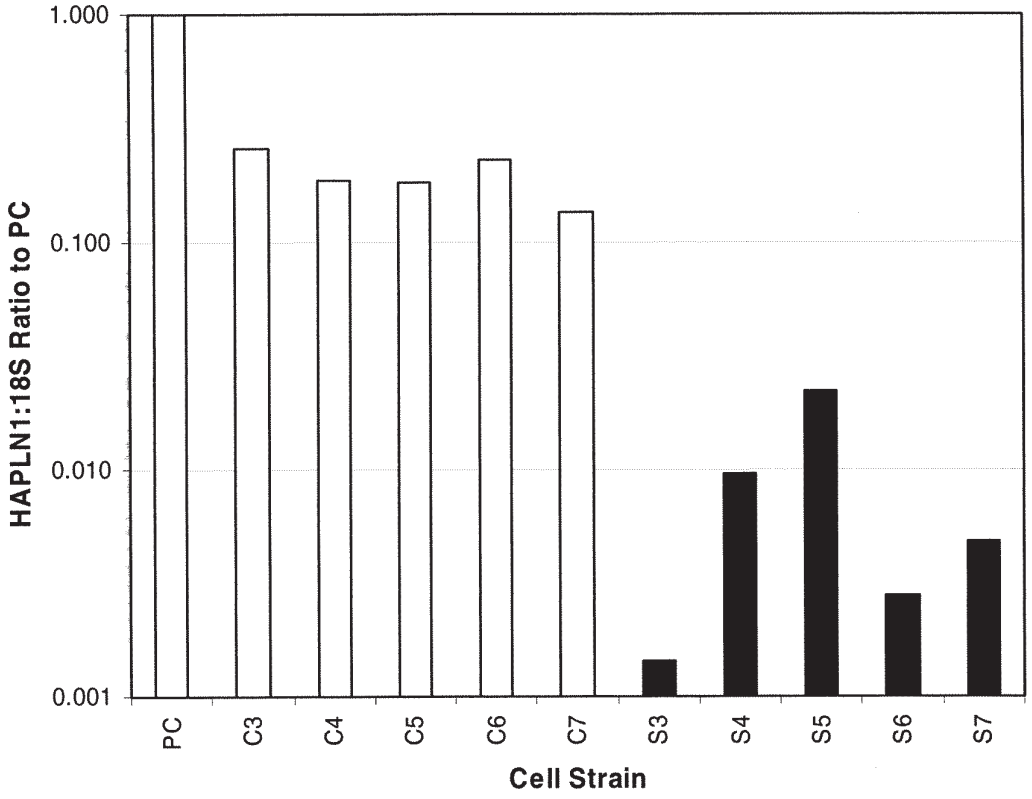

1.000
0.100
0.010
0.001
HAPLN1:18S Ratio to PC
PC
C3
C4
C5
C6
C7
S3
S4
S5
S6
S7
Cell Strain

Fig. 6

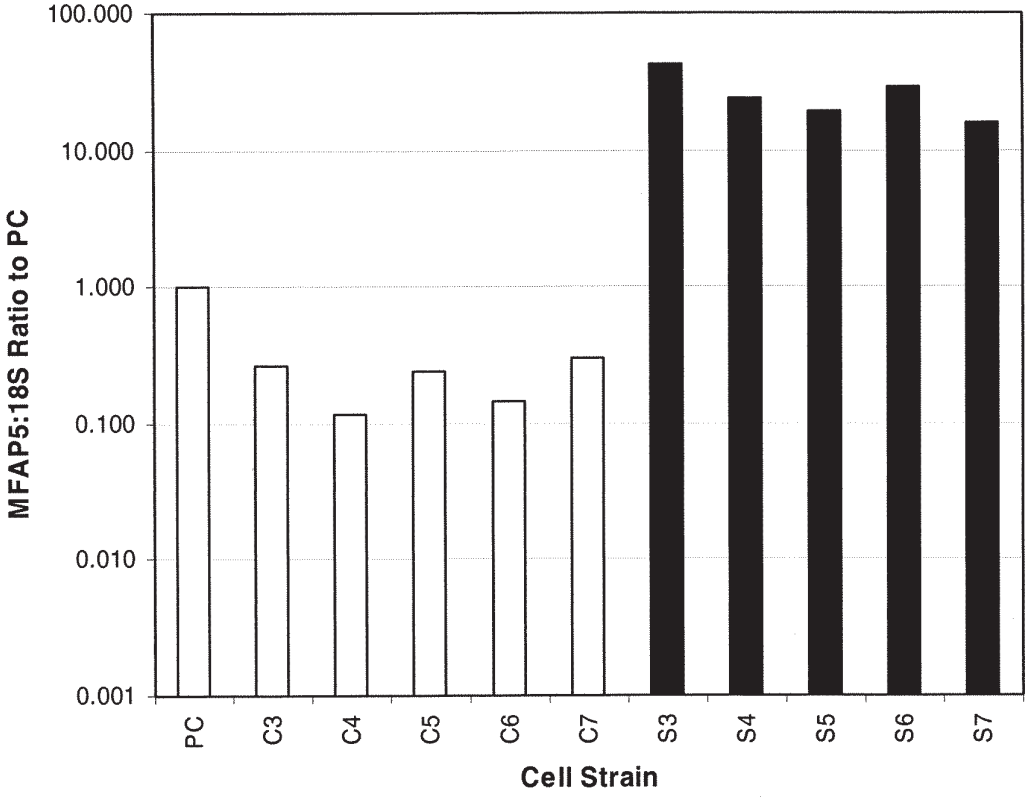

100.000
10.000
1.000
0.100
0.010
0.001
MFAP5:18S Ratio to PC
PC
C3
C4
C5
C6
C7
S3
S4
S5
S6
S7
Cell Strain

Fig. 7

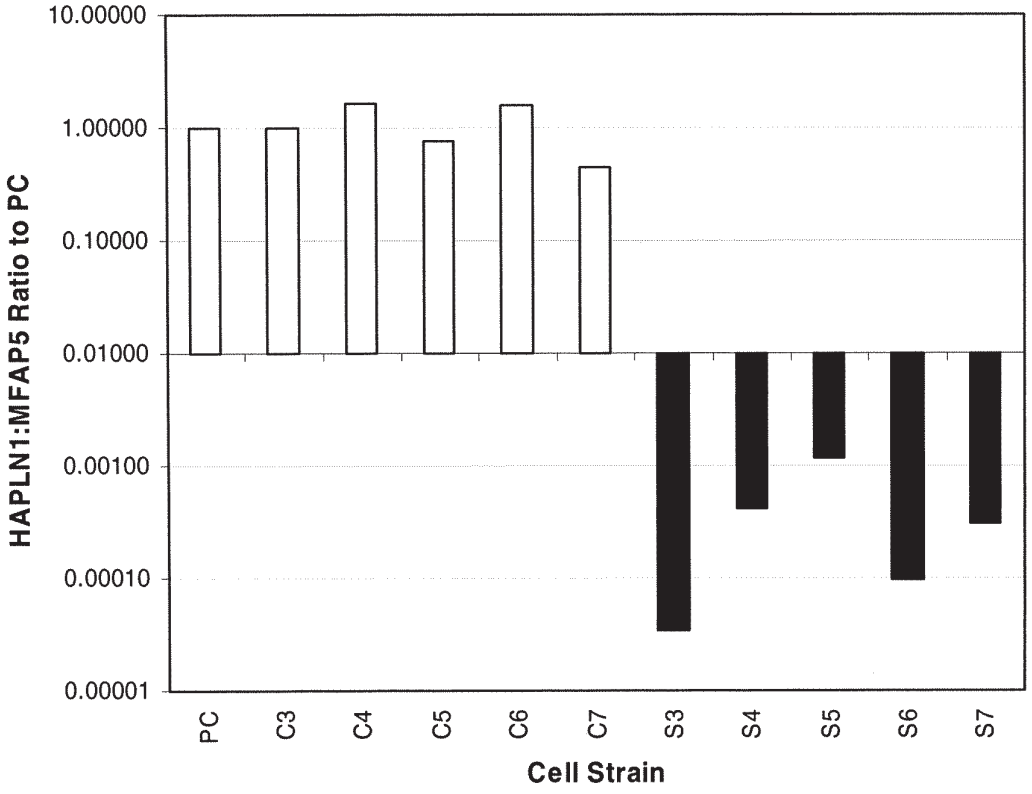

10.00000
1.00000
0.10000
0.01000
0.00100
0.00010
0.00001
HAPLN1:MFAP5 Ratio to PC
PC
C3
C4
C5
C6
C7
S3
S4
S5
S6
S7
Cell Strain

Fig. 8

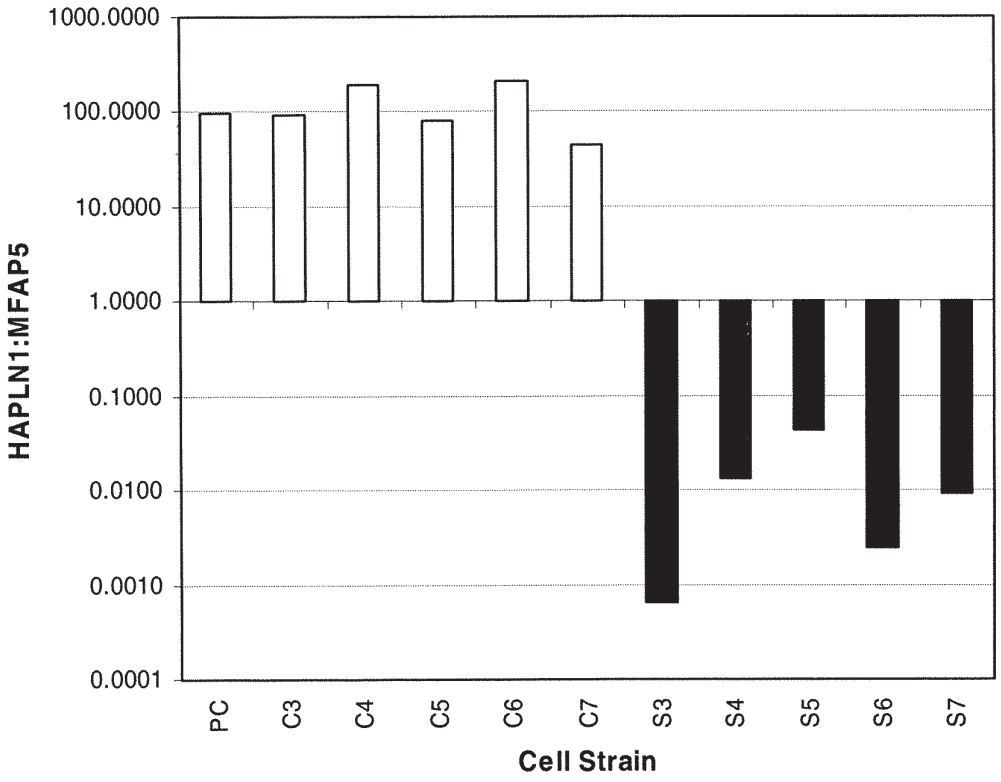

1000.0000
100.0000
10.0000
1.0000
0.1000
0.0100
0.0010
0.0001
HAPLN1:MFAP5
PC
C3
C4
C5
C6
C7
S3
S4
S5
S6
S7
Cell Strain

Fig. 9

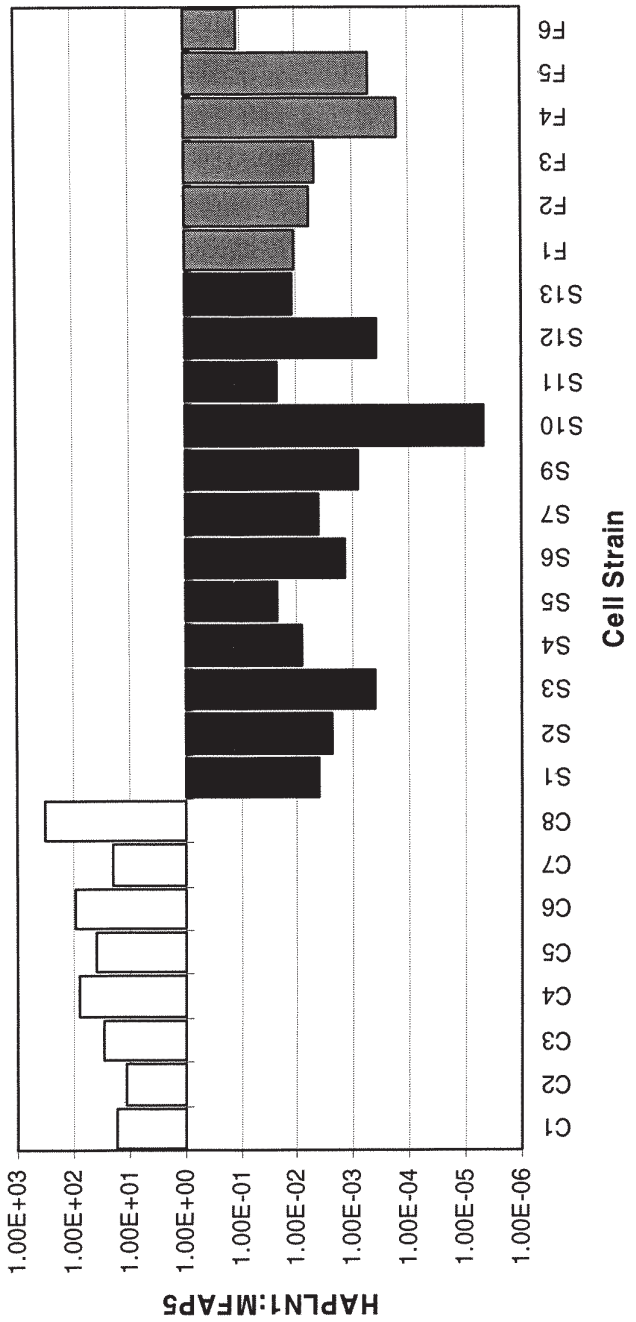

HAPLN1:MFAP5
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
1.00E-03
1.00E-04
1.00E-05
1.00E-06
Cell Strain
C1
C2
C3
C4
C5
C6
C7
C8
S1
S2
S3
S4
S5
S6
S7
S9
S10
S11
S12
S13
F1
F2
F3
F4
F5
F6

Fig. 10A

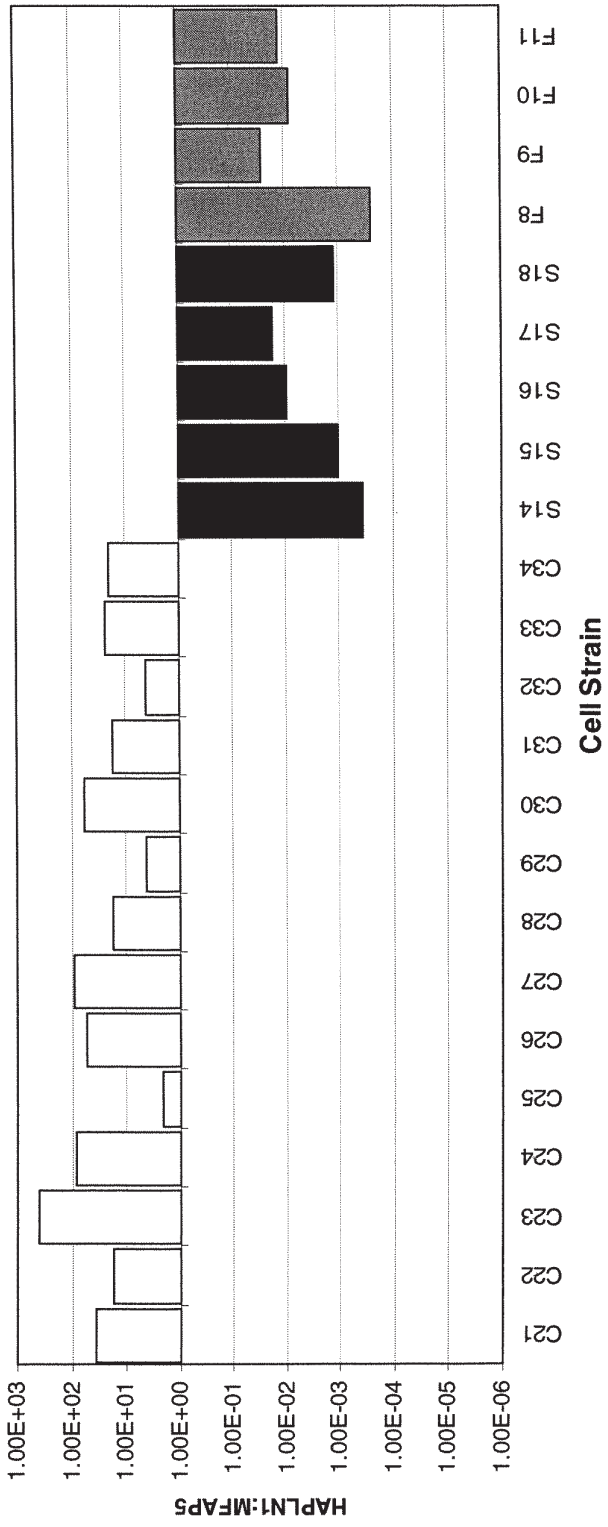

HAPLN1:MFAP5
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
1.00E-03
1.00E-04
1.00E-05
1.00E-06
C21
C22
C23
C24
C25
C26
C27
C28
C29
C30
C31
C32
C33
C34
S14
S15
S16
S17
S18
F8
F9
F10
F11
Cell Strain

Fig. 10B

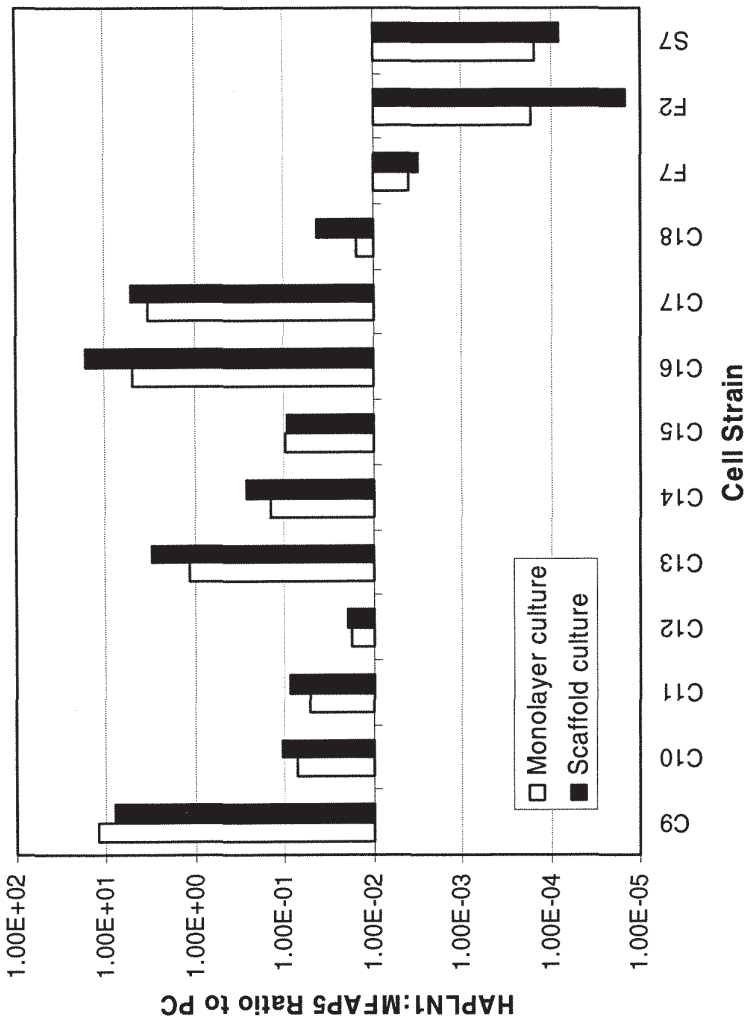

HAPLN1:MFAP5 Ratio to PC
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
1.00E-03
1.00E-04
1.00E-05
C9
C10
C11
C12
C13
C14
C15
C16
C17
C18
F7
F2
S7
Cell Strain
Monolayer culture
Scaffold culture

Fig. 11

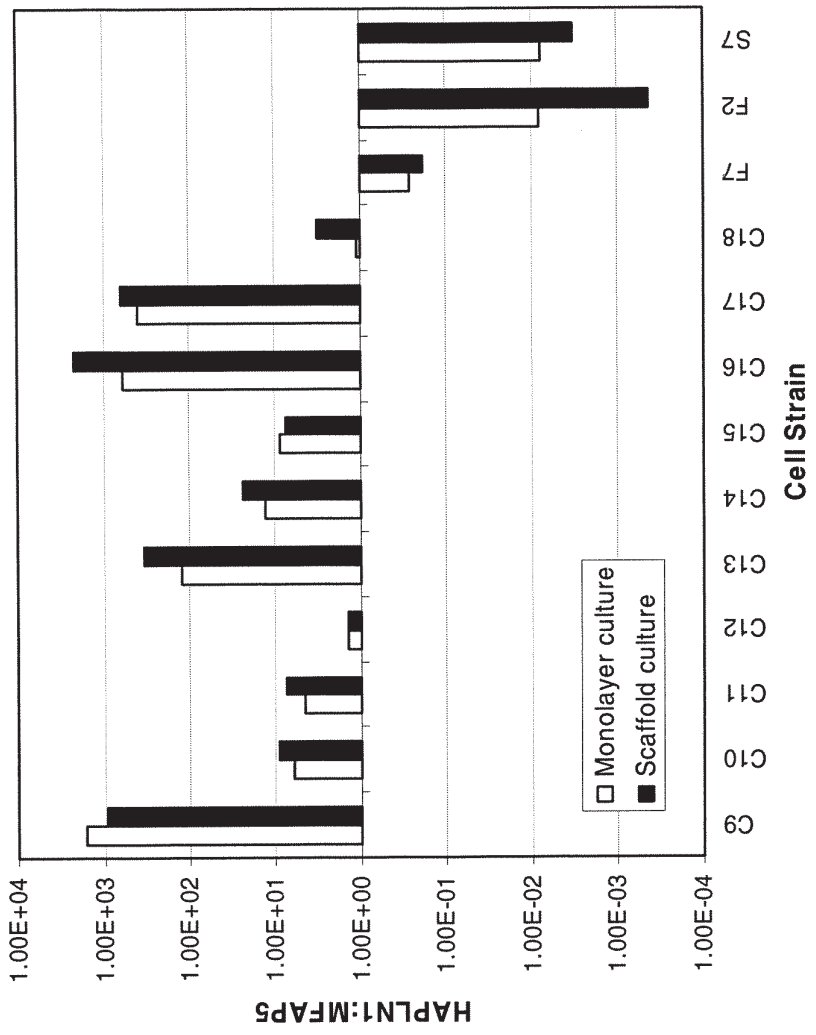

HAPLN1:MFAP5
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
1.00E-03
1.00E-04
Monolayer culture
Scaffold culture
C9
C10
C11
C12
C13
C14
C15
C16
C17
C18
F7
F2
S7
Cell Strain

Fig. 12

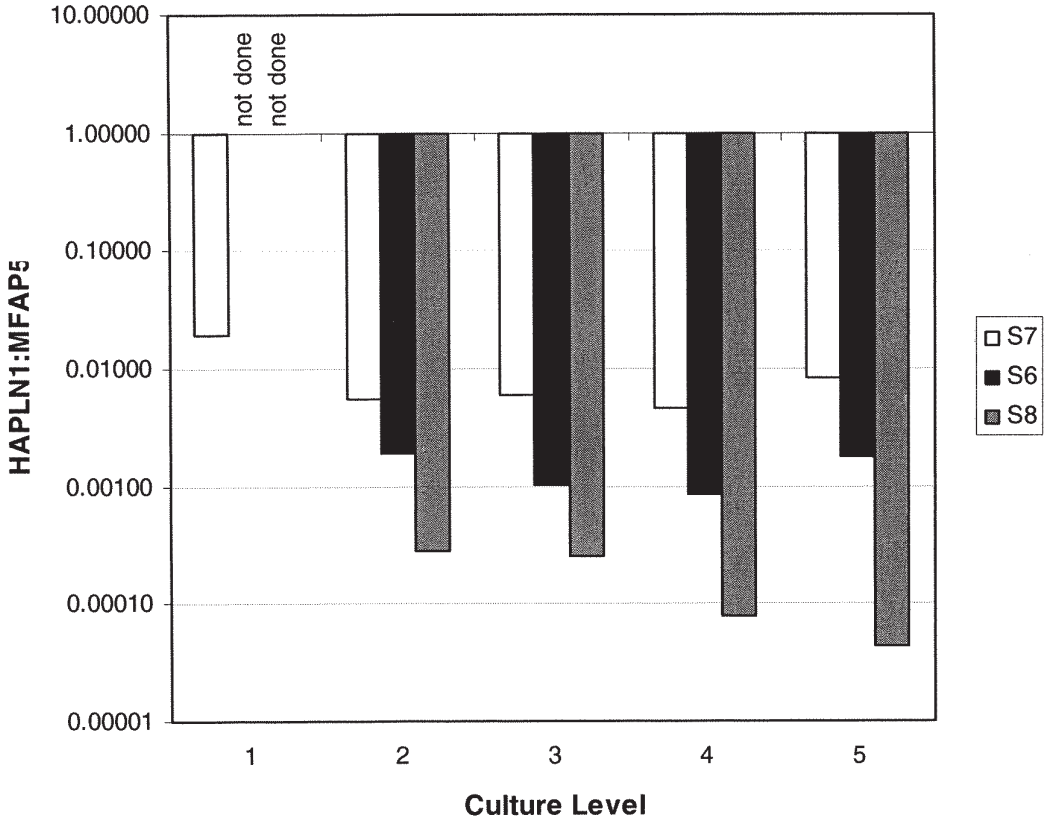

10.00000
1.00000
0.10000
0.01000
0.00100
0.00010
0.00001
HAPLN1:MFAP5
not done
not done
1
2
3
4
5
Culture Level
S7
S6
S8

Fig. 13

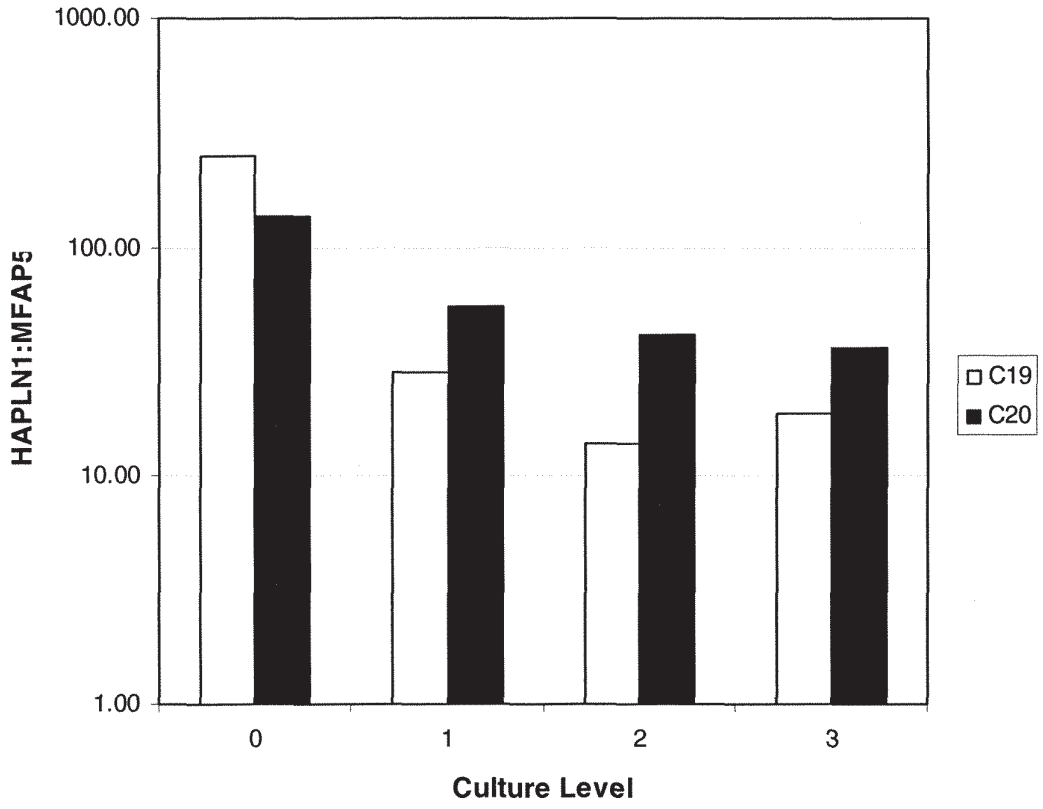

1000.00
100.00
10.00
1.00
HAPLN1:MFAP5
0
1
2
3
Culture Level
C19
C20

Fig. 14A

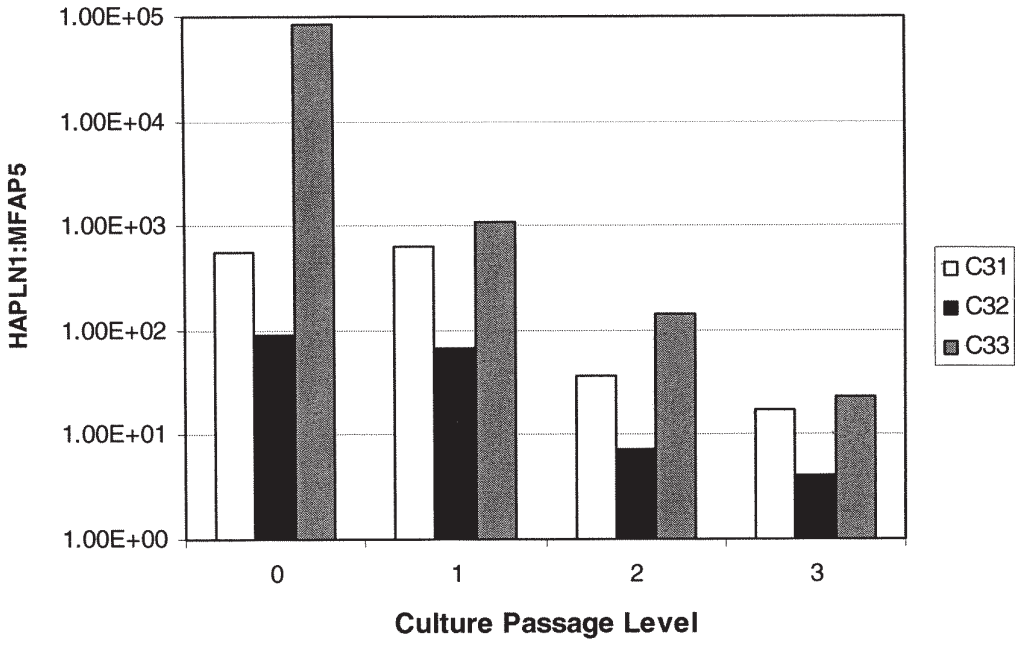

1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
HAPLN1:MFAP5
0
1
2
3
Culture Passage Level
C31
C32
C33

Fig. 14B

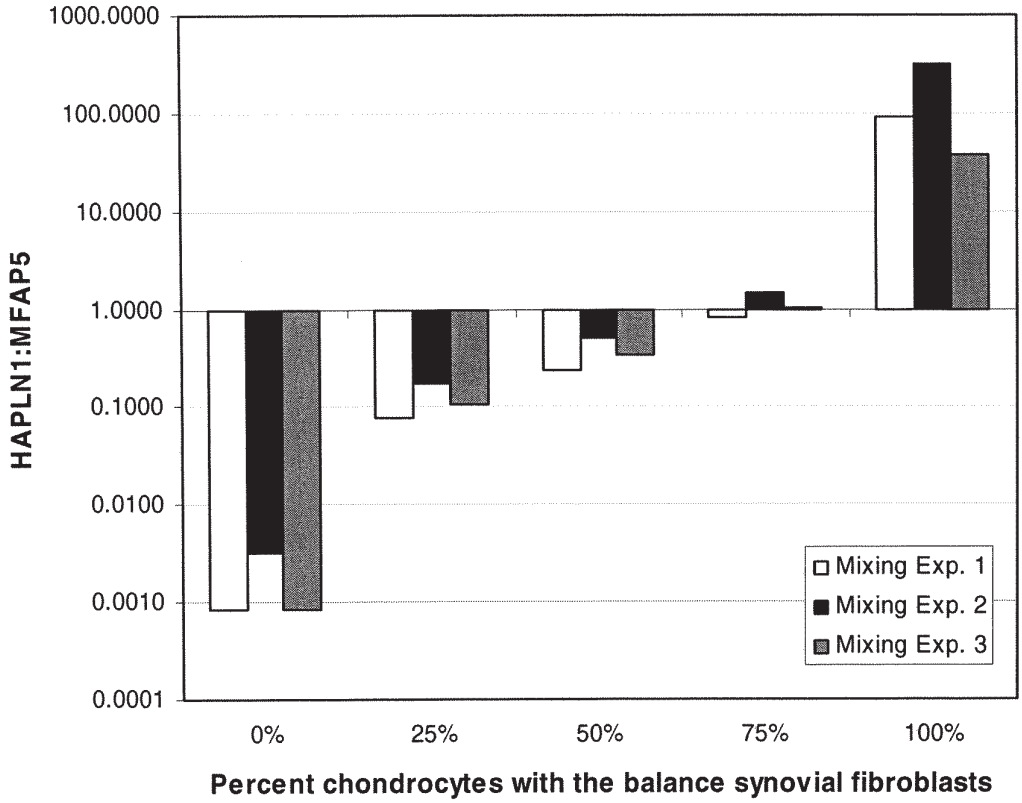

1000.0000
100.0000
10.0000
1.0000
0.1000
0.0100
0.0010
0.0001
HAPLN1:MFAP5
0%
25%
50%
75%
100%
Percent chondrocytes with the balance synovial fibroblasts
Mixing Exp. 1
Mixing Exp. 2
Mixing Exp. 3

Fig. 15

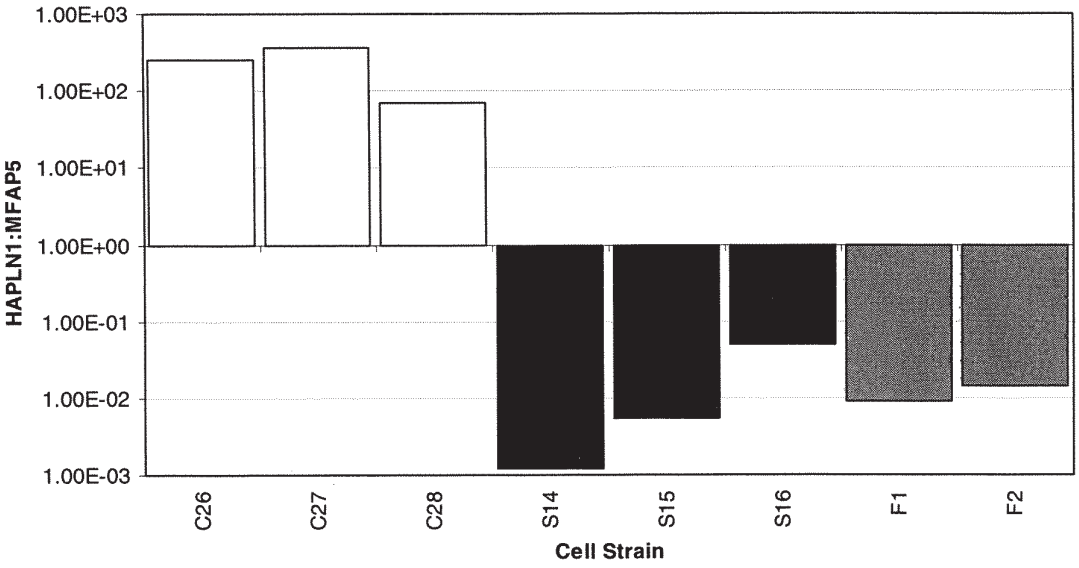

1.00E+03
1.00E+02
1.00E+01
1.00E+00
1.00E-01
1.00E-02
1.00E-03
HAPLN1:MFAP5
C26
C27
C28
S14
S15
S16
F1
F2
Cell Strain

Fig. 16