A role for alpha 11 beta 1 integrin in the human periodontal ligament


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Figure 1
Figure 3

A

hGF1

% of initial gel area

0% 20% 40% 60% 80% 100%

0 2 4 6 8 10 12 time (h)

hPDLF1

% of initial gel area

0% 20% 40% 60% 80% 100%

0 2 4 6 8 10 12 time (h)

B

hGF1

% of initial gel area

0% 20% 40% 60% 80% 100%

0 2 4 6 8 10 12 time (h)

hPDLF1

% of initial gel area

0% 20% 40% 60% 80% 100%

0 2 4 6 8 10 12 time (h)

Legend:

- control
- α1+α2 Ab
- β1
- IGF-II
- IGF-II+
- α1+α2
- PDGF-BB
- α2 Ab
- α11 siRNA
- α2 Ab+α11 siRNA
Figure 4

A

<table>
<thead>
<tr>
<th>Patient 1</th>
<th>Patient 2</th>
<th>Patient 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Healthy</td>
<td>Periodontitis</td>
<td></td>
</tr>
</tbody>
</table>

- α1
- α2
- α10
- α11
- S26

B

<table>
<thead>
<tr>
<th>Healthy</th>
<th>Periodontitis</th>
</tr>
</thead>
<tbody>
<tr>
<td>α11</td>
<td></td>
</tr>
<tr>
<td>β-actin</td>
<td></td>
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</tbody>
</table>
Figure S1

<table>
<thead>
<tr>
<th></th>
<th>IGF-II</th>
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<tbody>
<tr>
<td></td>
<td>0h</td>
</tr>
<tr>
<td>hGF1</td>
<td><img src="hGF1_0h" alt="Image" /></td>
</tr>
<tr>
<td>hPDLF1</td>
<td><img src="hPDLF1_0h" alt="Image" /></td>
</tr>
</tbody>
</table>

- α11
- β-actin
Figure S2

A

C2C12-α1  C2C12-α2  C2C12-α11
integrin chains
β-actin

B

% of initial gel area vs. time (h)

control  IGF-II  PDGF-BB

- C2C12-α1
- C2C12-α2
- C2C12-α11
- C2C12

% of initial gel area
Figure S3

A

% of initial gel area

0% 20% 40% 60% 80% 100%

0 2 4 6 8 10 12 time (h)

hGF1

hPDLF1

control

α11 siRNA

non-targeting siRNA

B

hGF1

hPDLF1

control

α11 siRNA

non-targeting siRNA

α11

β-actin

% of initial gel area

0% 20% 40% 60% 80% 100%

0 2 4 6 8 10 12 time (h)

relative expression

0 0.2 0.4 0.6 0.8 1 1.2 1.4

control

α11 siRNA

non-targeting siRNA

hGF1

hPDLF1
Figure S4

ITGA11 forward primer

\[\text{CCCAGGTGGCAGAGCGGC}\]
\[\text{CGAGACTGGCCGAGCCGCAGCGGGAGGAGGCTGCGG}\]

-176

\[\text{TSS}\]

\[\text{ITGA11} \]

GGAGCCCGGCGCCCCGCGCAGTGCAAGGTGCGAGCCGCGCCCCGCGAGGAGGTGCGG

+1(TSS)

\[\text{ITGA11} \]

CTCTGGCTTGCCCCTCCCCCTCCGCTCGAGCCCTCCCACCTCC

\[\text{SBS1} \]
\[\text{SBS2} \]
\[\text{EBS} \]

\[\text{GCCATG}\]