SUPPLEMENTARY INFORMATION

Supplemental Table S1. Primers used in qPCR.

Supplemental Table S2. qPCR: Assymetrical values for the indicated genes using the $2^{-\Delta\Delta Ct}$ method.

Supplemental Figure S1. Luciferase activity in SV40 MEFs stably transfected with the TGF- β responsive element. Stable Transfection of the TGF- β responsive element was carried out as described in materials and methods. Luciferase activities were measured in cells seeded monolayer (in the presence or absence of recombinant TGF- β 1 or activin A) or in cells extracted from collagen gels as described in materials and methods. Values are calibrated to the luciferase activity produced by exogenous addition of 0.5 ng/ml of recombinant TGF- β 1.

Supplemental Figure S2. Negative control for $\alpha 11$ protein expression in SV40 MEFs within attached gels. Cells in attached collagen gels were collected as described in materials and methods at 24 and 96h. Cell lysates were subjected to western blots using $\alpha 11$ polyclonal antibody to $\alpha 11$ or the corresponding preimmune serum, both used at the same concentration (1:500) and under the same conditions. The blots for $\alpha 11$ was exposed for longer time to better appreciate its up-regulation.

Supplemental Figure S3. Positive control for TGF- β monoclonal antibody. Cells either remained unstimulated, were treated with 5 ng/ml of recombinant TGF- β 1 alone, or were treated with 5 ng/ml of TGF- β 1 that had been previously preincubated with 10 µg/ml of anti-TGF- β in serum-free DMEM at 37°C for 30 min. Serum was removed prior to the addition of TGF- β 1 with or without its blocking antibody.

Supplemntal Figure S4. Induction of $\alpha 11$ and α -SMA by activin A in corneal fibroblasts grown on collagen I monolayes (longer exposure). The upregulation of $\alpha 11$ and α -SMA caused by activin A was less prominent from that produced by TGF- β in corneal fibroblasts. In order to clearly appreciate such upregulation, membranes with the corresponding samples had to be exposed for a longer period.

Supplemental Figure S5. Immunolocalization of α -SMA in corneal fibroblasts grown on collagen I (lower magnification). Cells remained untreated (upper left), were stimulated with 5 ng/ml of TGF- β 1 only (upper right) or treated with 5 ng/ml of TGF- β 1 and siRNA (100 nM) to α 11 (lower right) or an off-target siRNA (negative control, NC; lower left). The exposure time when taking pictures was identical in all conditions.

Supplementary Table S1

Sequences of primers used for qPCR.

Target gene	Forward (5´-3´)	Reverse (5´-3´)	Annealing T (°C)
TGF-β1	ACAATTCCTGGCGTTACCTT	GTTCAGCCACTGCCGTACAAC	55
Activin βA	TGAAGAAGAGACCCGATGTCA	GCTTTCTGATCGCGTTGAG	55
ALK4	TGCTGCCCGTCTGACA	TGCCCAGGTTCTTTGTGTAGG	54
ALK5	AGCATTGGCAAAGGTCGG	ATCTCTGCCTCTCGGAACCAT	54
α11	GACAGCACCGCAGACGAT	GCTGTTTGCCTTGACCTCGAA	58
GAPDH	CGAGACCCCACTAACATCAA	TTCACACCCATCACAAACAT	58

Supplementary Table S2

qPCR: Assimetrical error values for the indicated genes

	α11	TGF-β1	Act βA	ALK5	ALK4
24 h attached	0,536616	0,522505	0,13494	0,503166	0,387565
48 h attached	0,44143	0,486055	0,129567	0,341399	0,356489
72 h attached	0,642768	0,426852	0,114066	0,348133	0,312786
96 h attached	0,355672	0,431622	0,15991	0,14596	0,271712
Monolayer	0,081049	0,090772	0,302756	0,077886	-0,21198
2h floating	0,102495	0,158988	0,065923	0,101382	0,093065
8h floating	0,053125	0,233605	0,065096	0,220634	0,168509
24h floating	0,223843	0,975517	0,111938	1,096156	0,86358
48h floating	0,078019	0,220806	0,098038	0,679024	0,122768

Negative error bar values

Positive error bar values

	α11	TGF-β1	Act βA	ALK5	ALK4
24 h attached	0,639905	0,585214	0,176895	0,579094	3,511046
48 h attached	0,499287	0,540049	0,16767	0,369269	3,762373
72 h attached	0,731121	0,473477	0,15109	0,377193	3,663334
96 h attached	0,397	0,493093	0,242716	0,150585	3,432427
Monolayer	0,088198	0,099834	0,434219	0,084465	0,519373
2h floating	0,118022	0,178477	0,087105	0,110271	0,944097
8h floating	0,058802	0,275206	0,087377	0,249379	1,384833
24h floating	0,384774	1,681832	0,20305	1,931775	4,932162
48h floating	0,088202	0,243077	0,129011	0,762664	4,923919



Monolayer







Longer exposure

Untreated





TGF- β 1 + NC siRNA TGF- β 1 + α 11siRNA



