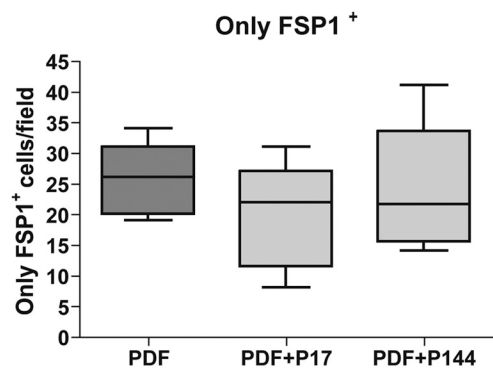


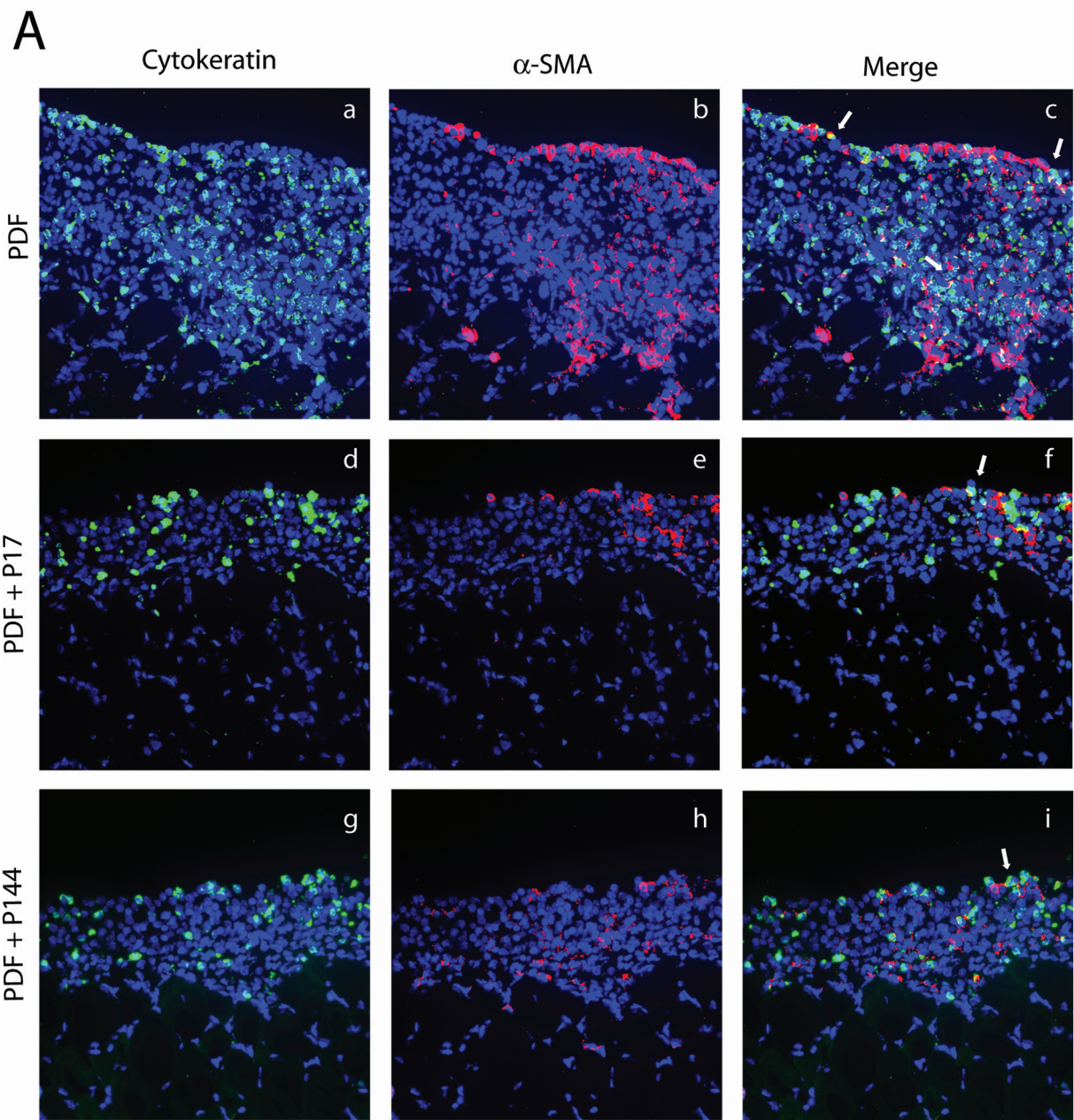
Loureiro et al Suppl Figure S1

Supplementary Figure S1. Dual immunofluorescence staining of peritoneal tissues from saline-instilled mice. In the peritoneum from control mice the expression of cytokeratin is restricted to the mesothelial cells monolayer and the expression of CD31 is confined to deeper vessels located in the muscular tissue. In these control mice there is no expression of FSP-1 and CD45⁺ cells are barely detected. Representative pictures are presented. Magnification X 200.

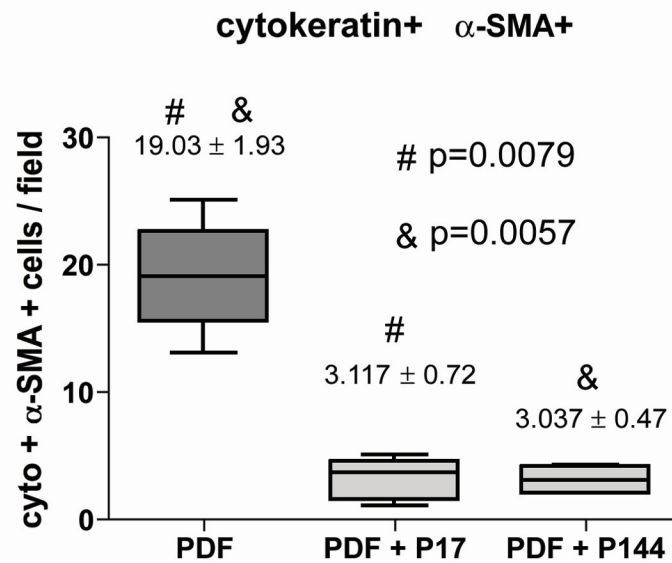


Loureiro et al Suppl Figure S2

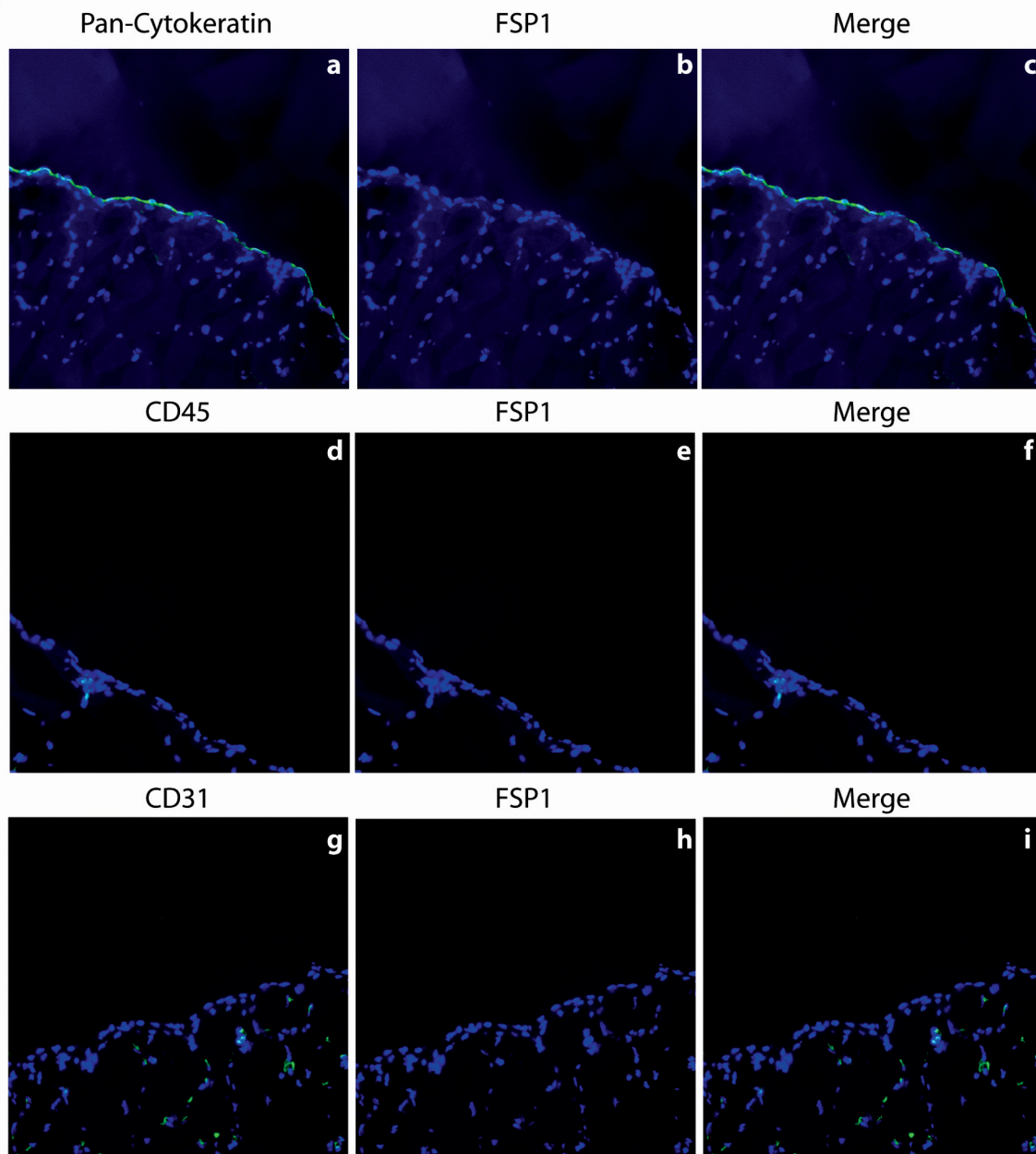
Supplementary Figure S2. TGF- β 1-bocking peptides do not affect the number of FSP-1 single positive fibroblasts. Box Plot graphics represent 25% and 75% percentiles, median, minimum and maximum of the numbers of FSP-1⁺ fibroblasts in the PDF, PDF + P17, and PDF + P144 groups.



B

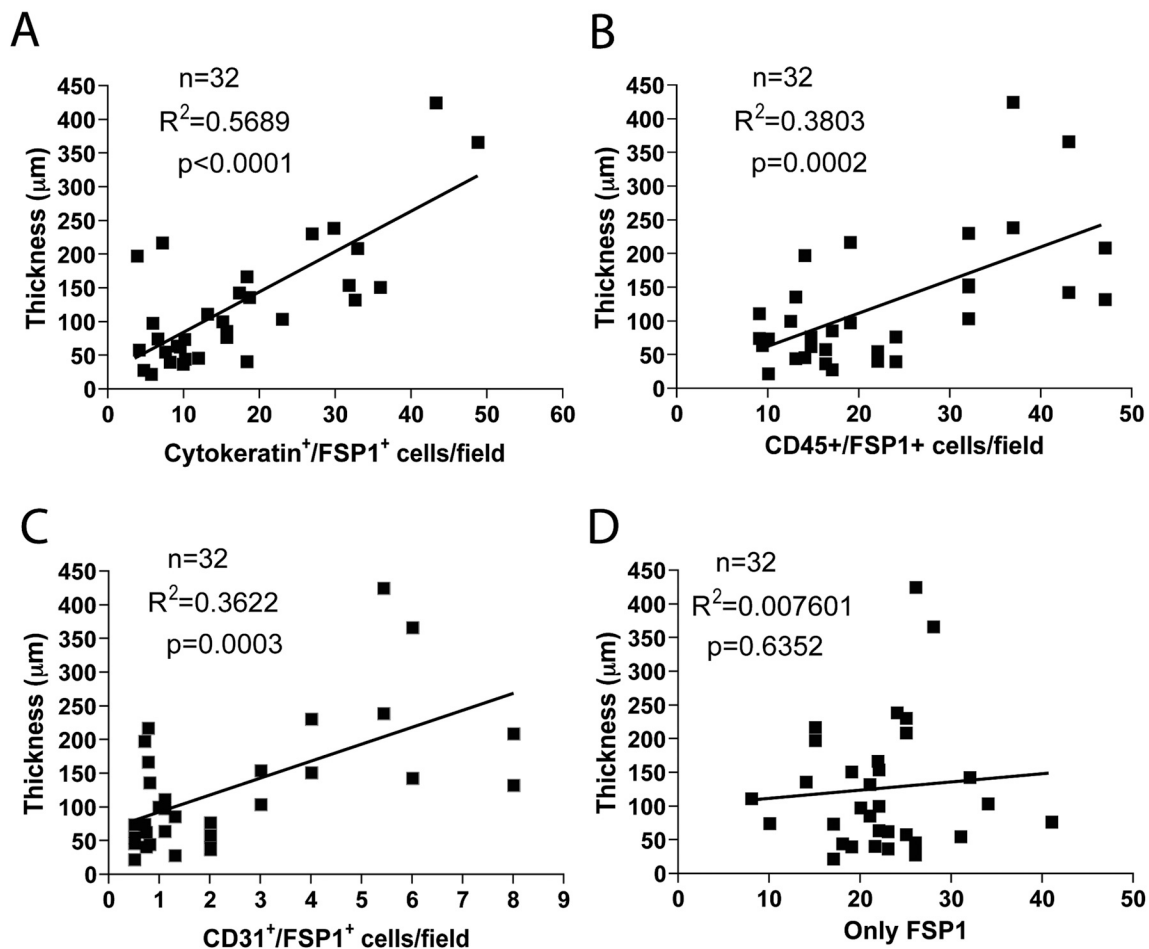


Supplementary Figure S3. Effects of TGF- β 1-blocking peptides on the number of myofibroblasts derived from mesothelial cells. (A) Immunofluorescence microscopy analysis of parietal peritoneal sections stained for cytokeratin (green) and α -SMA (red) with DAPI counterstaining show accumulation of trans-differentiated mesothelial cells in the submesothelial space (cytokeratin positive cells) in the PDF group (n=10), some of which co-express α -SMA (yellow cells in the Merge panel). The administration of P17 or P144 peptides reduces the number of cytokeratin/ α -SMA double positive cells per field (PDF + P17, n=11; PDF + P144, n=11). Representative slides are presented Magnification X 200. Arrows show examples of double positive cells. (B) The reductions of the number of cytokeratin/ α -SMA positive fibroblasts by P17 or P144 peptides are significant. Box Plots represent 25% and 75% percentiles, median, minimum and maximum values. Numbers above boxes depict mean \pm SE. Symbols show statistical differences between groups.



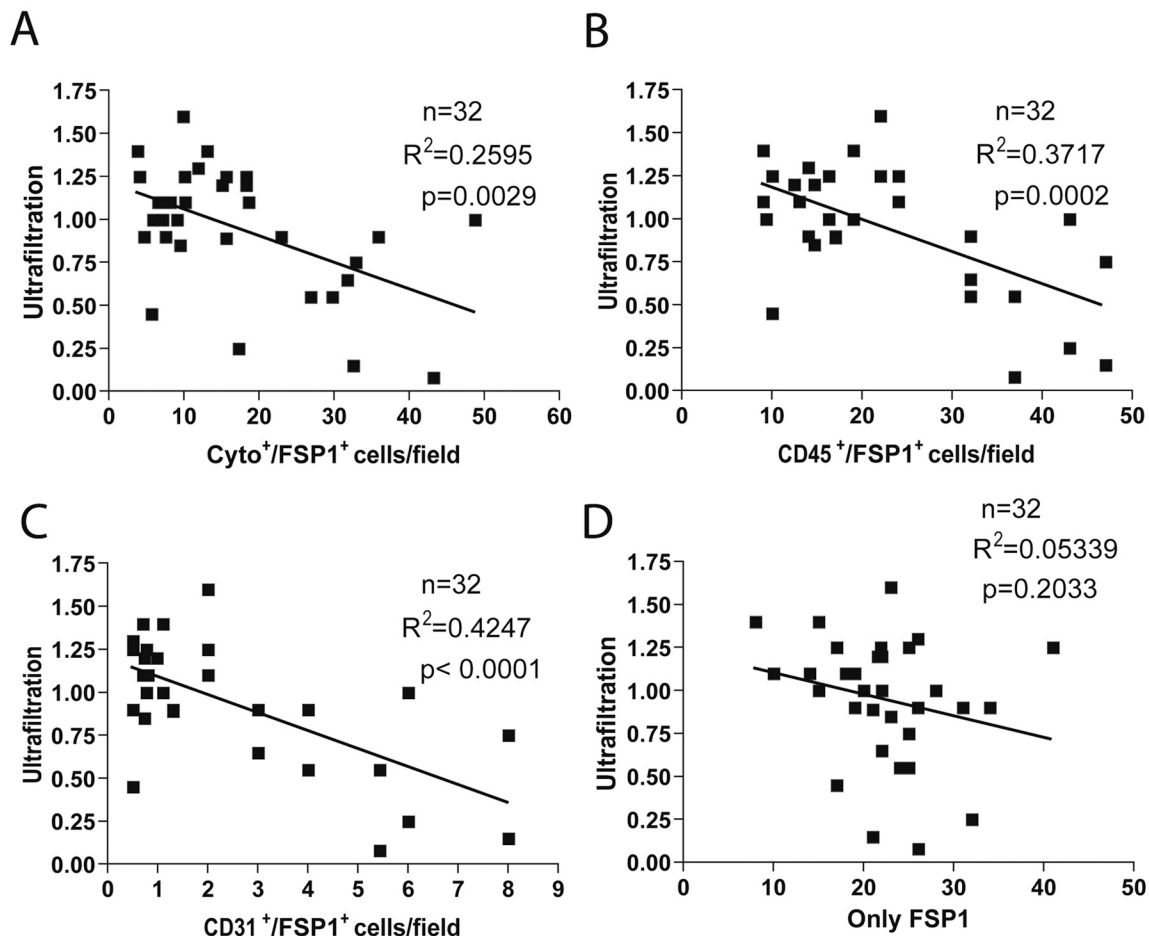
Loureiro et al Suppl Figure S4

Supplementary Figure S4. Dual immunofluorescence staining of peritoneal biopsies from mice infected with empty adenoviral vector. The peritoneal tissues from these control mice show expression of cytokeratin only in the mesothelial cells monolayer and the expression of CD31 is confined to deeper vessels. In these control mice there is no expression of FSP-1 and CD45⁺ cells are barely detected. Representative slides are presented. Magnification X 200.



Loureiro et al Suppl Figure S5

Supplementary Figure S5. Correlations between peritoneal fibrosis and different fibroblasts subpopulations. (A to C) In the whole group of mice instilled with PD fluid, the number of fibroblasts per field of the Cyto⁺/FSP-1⁺, CD45⁺/FSP-1⁺ and CD31⁺/FSP-1⁺ subpopulations correlate with peritoneal thickness (μm). Of note, the Cyto⁺/FSP-1⁺ subpopulation correlates with peritoneal fibrosis better than the other subpopulation. **(D)** Fibroblasts single positive for FSP-1 do not correlate with peritoneal fibrosis. (Spearman regression, $n = 32$).



Loureiro et al Suppl Figure 6

Supplementary Figure S6. Correlations between loss of ultrafiltration and different fibroblasts subpopulations. (A to C) In the whole group of mice instilled with PD fluid, the number of fibroblasts per field of the Cyto⁺/FSP-1⁺, CD45⁺/FSP-1⁺ and CD31⁺/FSP-1⁺ subpopulations correlate with the loss of ultrafiltration. Of note, the CD31⁺/FSP-1⁺ subpopulation correlates with peritoneal fibrosis better than the other subpopulation. **(D)** Fibroblasts single positive for FSP-1 do not correlate with loss of ultrafiltration. (Spearman regression, n = 32).

Supplementary Table S1. Oligonucleotides Sequences

Gene	Primers Sequence for Real-Time PCR	
	Forward primer	Reverse primer
human E-Cadherin Tm= 62°C	5' TGAAGGTGACAGAGCCTCTG 3'	5' TGGGTGAATTCGGGCTTGTT 3'
human Fibronectin Tm= 66°C	5' CCTGAAGCTGAAGAGACTTGC 3'	5' CGTTTCTCCGACCACATAGGA 3'
human Collagen I Tm= 64°C	5' GCTATGATGAGAAATCAACCG 3'	5' GCTTCCCCATCATCTCCATTC 3'
human Snail-1 Tm= 55°C	5' GCAAATACTGCAACAAGG 3'	5' GCACTGGTACTTCTTGACA 3'
human H3 Tm= 62°C	5' AAAGCCGCTCGCAAGAGTGCG 3'	5' ACTGCCTCCTGCAAAGCAC 3'
mouse Fibronectin Tm= 63C	5' GCAAACCTATAGCTGAGAAGTG 3'	5' CAAGTACAGTCCACCATCATC 3'
mouse α -SMA Tm= 54°C	5' CAGTCGCTGTCAGGAACC 3'	5' GTGCTGTCTTCCTCTTCACAC 3'
mouse Collagen I Tm= 63°C	5' TGCCGCGACCTCAAGATGTG 3'	5' CACAAGGGTGCTGTAGGTGA 3'
mouse 18S Tm= 60°C	5' GCCGCTAGAGGTGAAATTCTTG 3'	5' CATTCTTGCAAATGCTTTTCG 3'