

Supplemental Material to:

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Carbonic anhydrase IX from cancer-associated fibroblasts drives epithelial-mesenchymal transition in prostate carcinoma cells

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Supplementary figure 1.

Analysis of CA IX expression in HPFs, *in vitro* activated CAFs and in CAFs isolated from human prostate carcinoma biopsy (*in vivo* activated CAFs). *In vitro* activated CAFs were obtained culturing HPFs with CM^{PCa} for 24 hours. CA IX expression was analyzed by immunoblot and actin was used for normalization.

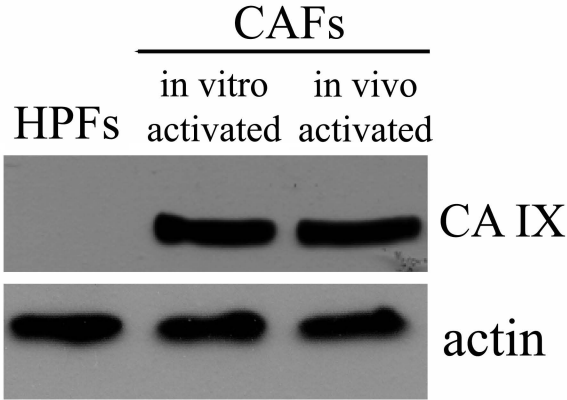
Supplementary figure 2.

Analysis of MMP-9 silencing in CAFs. MMP-9 was silenced in HPFs and CAFs. The medium was recovered 72 h after MMP-9 silencing and used for zimography.

Supplementary figure 3.

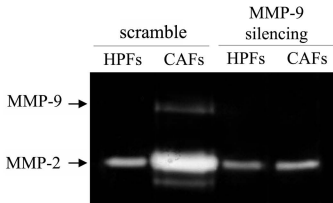
The addition of recombinant MMP-9 rescues EMT in PCa cells. CA IX was silenced in HPFs and CAFs and then CM from control- and CA IX-silenced fibroblasts were collected. 100 µg of human recombinant MMP-9 (200 U/ug) were added to CA IX-silenced CM. Then, PCa cells were cultured for 72 hours with different CMs and morphological analysis of EMT undergoing cells was performed under an optical microscope.

Supplementary figure 1



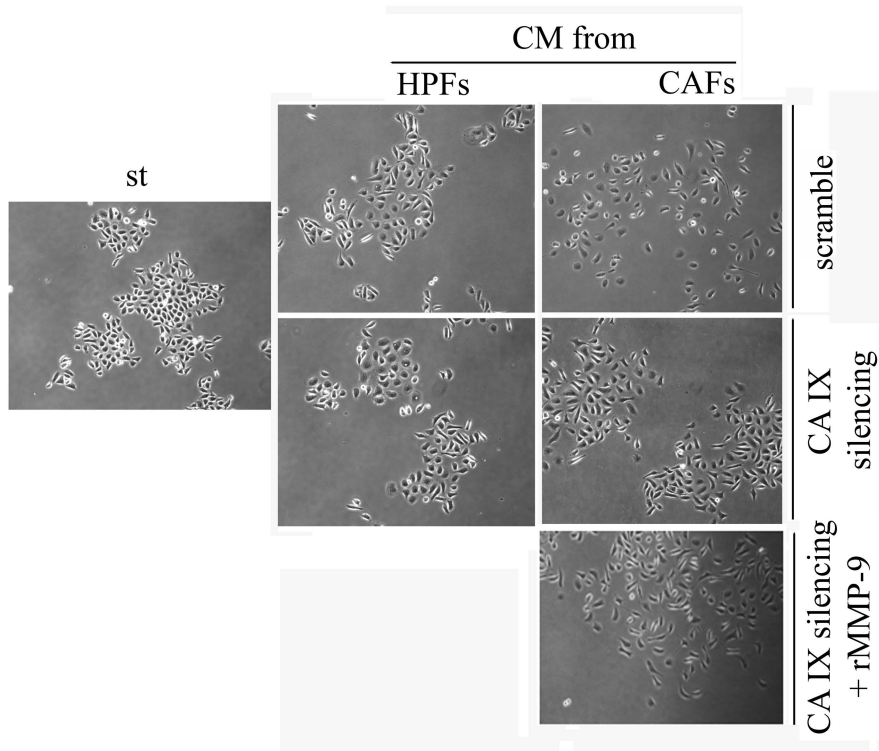
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Supplementary figure 2



Analysis of MMP-9 silencing in CAFs. MMP-9 was silenced in HPFs and CAFs. The medium was recovered 72 h after MMP-9 silencing and used for zymography.

Supplementary figure 3



The addition of recombinant MMP-9 rescues EMT in PCa cells. CA IX was silenced in HPFs and CAFs and then CM from control- and CA IX-silenced fibroblasts were collected. 100 μ g of recombinant MMP-9 (200 U/ μ g) were added to CA IX-silenced CM. Then, PCa cells were cultured for 72 hours with different CMs and morphological analysis of EMT undergoing cells was performed under an optical microscope.