

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: 3D confocal image of anti- α -SMA antibody-stained alveoli in the lung of control mouse. See also Fig. 2c.

File Name: Supplementary Movie 2

Description: 3D confocal image of anti- α -SMA antibody-stained alveoli in the lung of *Rap1^{iECKO}* mouse. Note that myofibroblasts in *Rap1^{iECKO}* mice had thinner α -SMA filaments than control myofibroblasts (Supplementary Movie 1). See also Fig. 2c.

File Name: Supplementary Movie 3

Description: 3D confocal image of Alexa Fluor 633-Hydrazide-stained Elastin fibers in the lung of control mouse. See also Fig. 3h.

File Name: Supplementary Movie 4

Description: 3D confocal image of Alexa Fluor 633-Hydrazide-stained Elastin fibers in the lung of *Rap1^{iECKO}* mouse. Note that myofibroblasts in *Rap1^{iECKO}* mice had thinner Elastin fiber than control myofibroblasts (Supplementary Movie 3). See also Fig. 3h.