

Supplemental material

Supplemental Figure legends

Figure S1. The MMP and cathepsin gene expression profile in SAE cells exposed to UV-treated RSV. Gene expression for (A) MMPs and (B) cathepsins was performed on SAE cells treated with mock, viable RSV or UV-treated RSV. Graphs are represented as mean \pm S.E.M., where n=10 per group.

Figure S2. RSV does not induce TIMP release from SAE cells. TIMPs media levels were determined by multiplex analysis following RSV infection. Graphs are represented as mean \pm S.E.M, where n=10 per group. p values shown, comparing both treatments connected by a line.

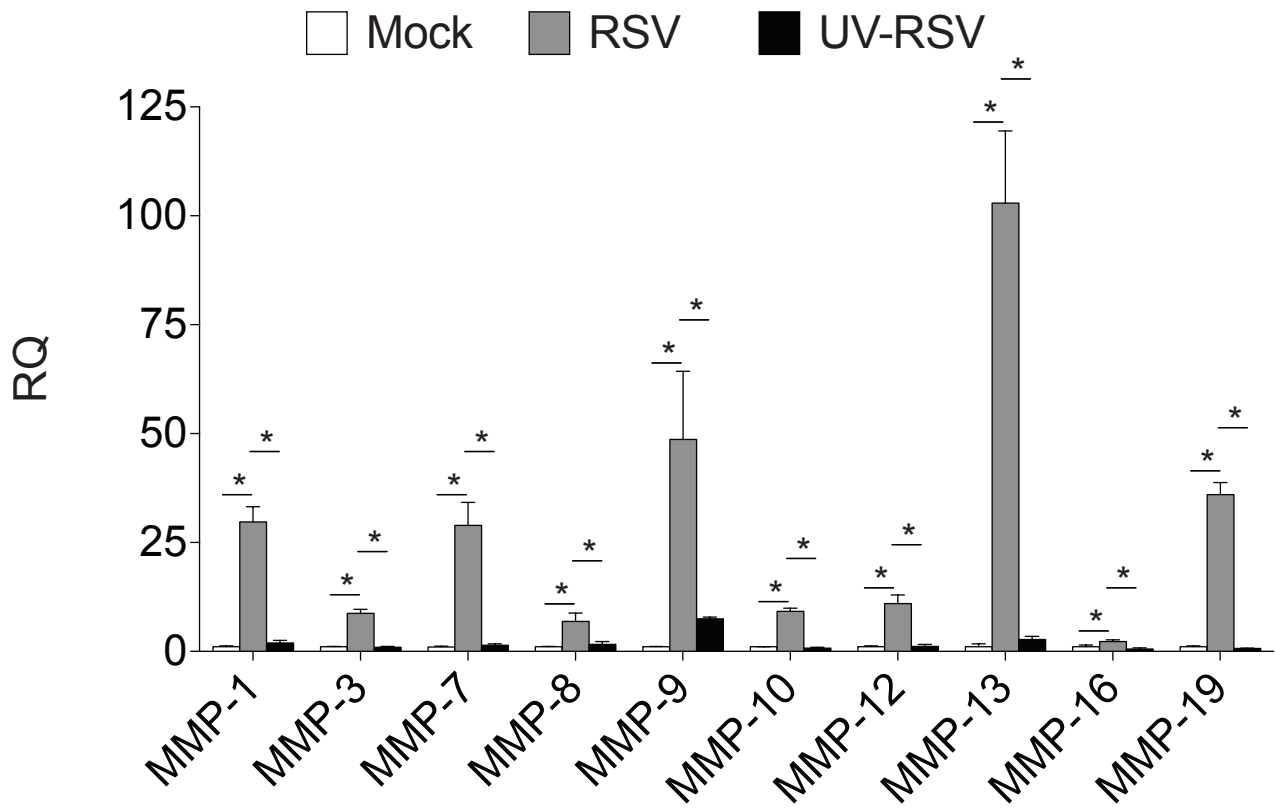
Figure S3. Transfection efficiency of siRNA delivery to SAE cells. Trif, MDA5, RIG-I, LGP2 and MAVS gene and protein expression were analyzed in SAE cells following siRNA transfection by qPCR. Three individual transfections are represented here. Graphs are represented as mean \pm S.E.M. p values shown, comparing both treatments connected by a line.

Figure S4. The MMP and cathepsin gene expression profile in mice exposed to RSV and ribavirin. Gene expression for (A) MMPs and (B) cathepsins was performed on FVB/NJ mice treated with mock plus vehicle, RSV plus vehicle or RSV plus ribavirin. Graphs are represented as mean \pm S.E.M., where n=10 per group.

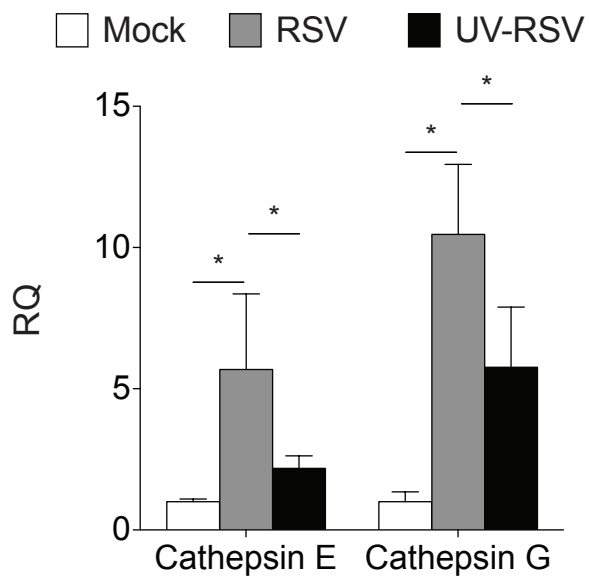
Figure S5. RSV induces ADAM17 and emmprin expression in the airways. (A) ADAM17 gene and protein expression were analyzed in wild-type mouse lung following RSV infection, by qPCR and immunoblot. *Represents a p value less than 0.05 compared to mock treated mice. (B) Emmprin media levels were determined by multiplex analysis

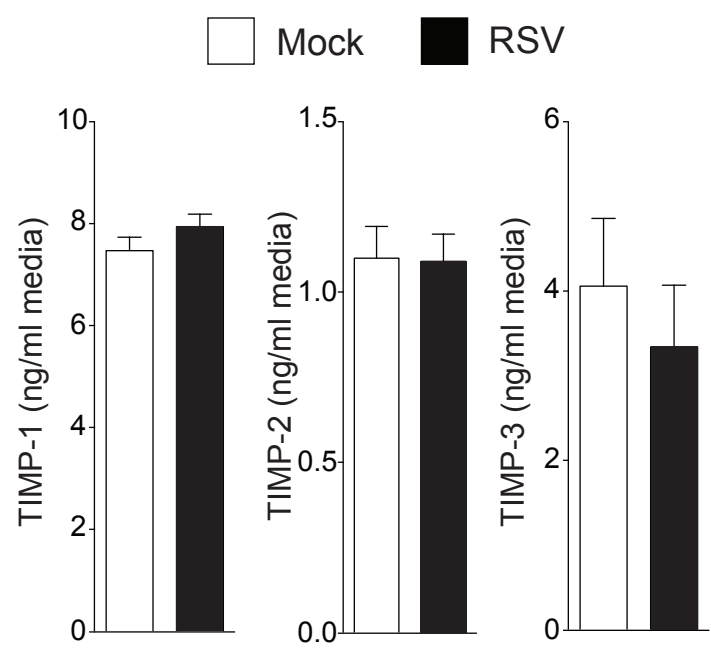
following RSV infection in SAE cells. Graphs are represented as mean \pm S.E.M. p values shown, comparing both treatments connected by a line. Each measurement was performed 3 times on 12 animals or cell culture samples.

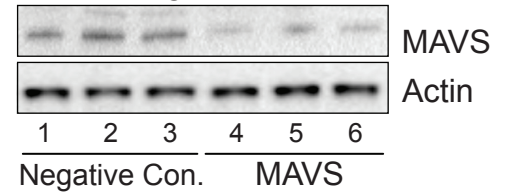
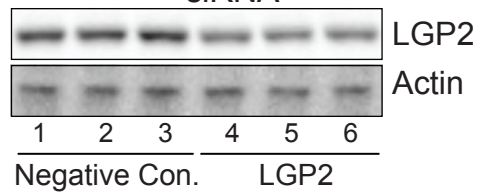
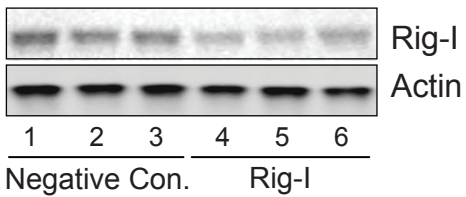
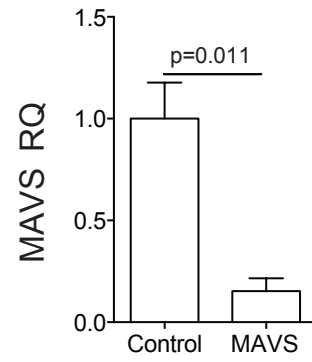
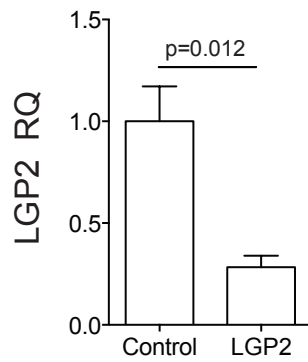
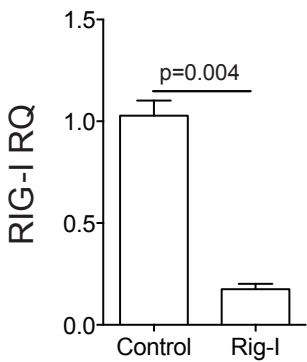
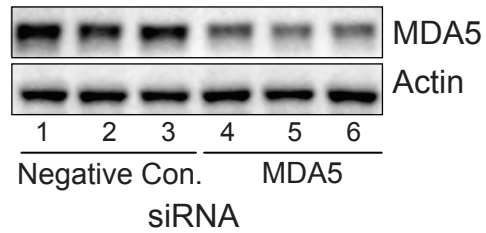
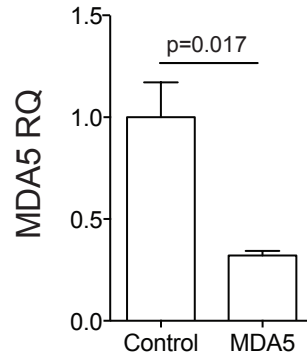
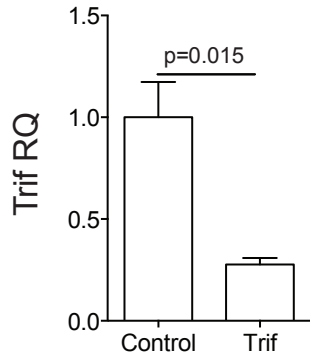
A



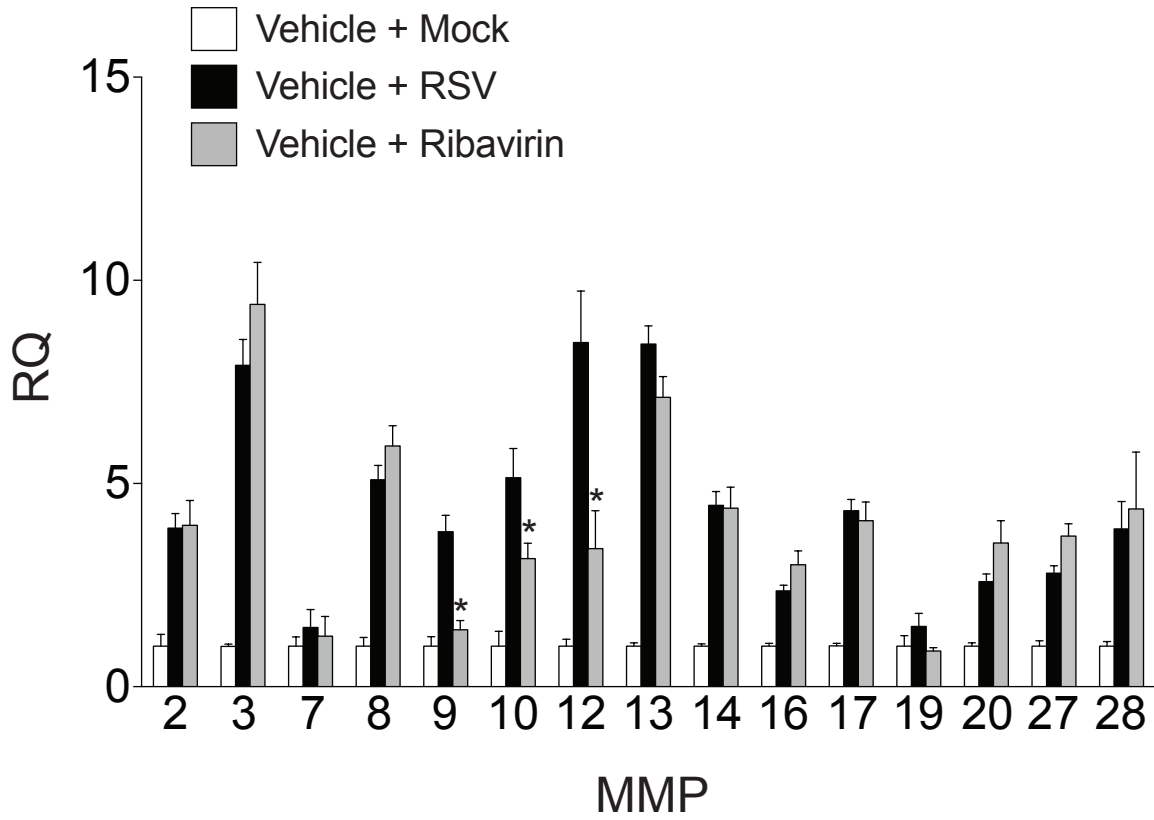
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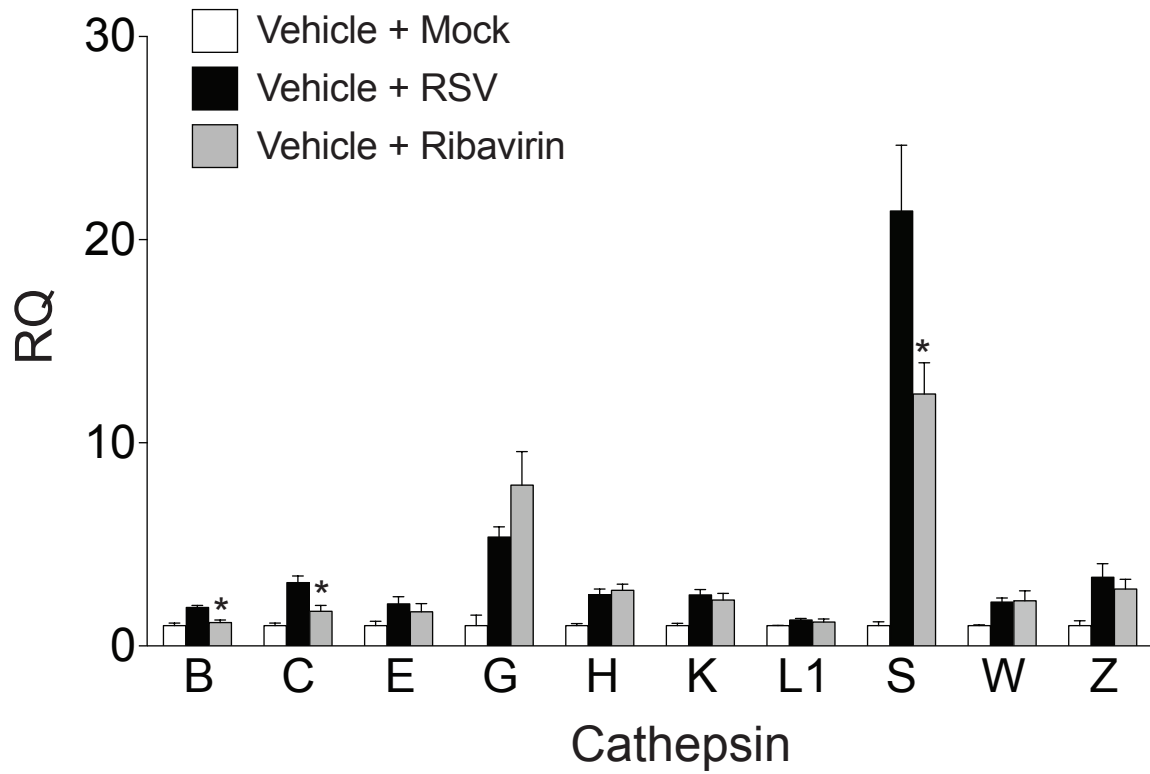




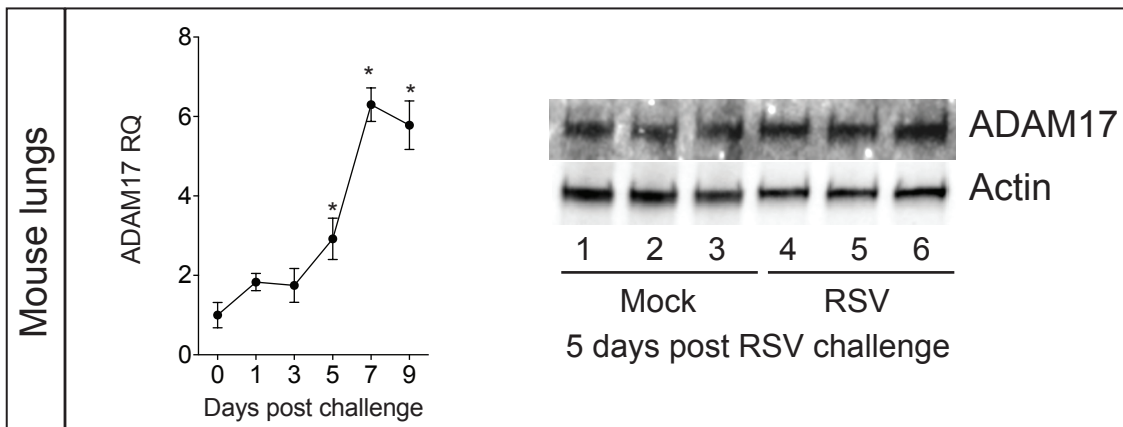
A



B



A



B

