

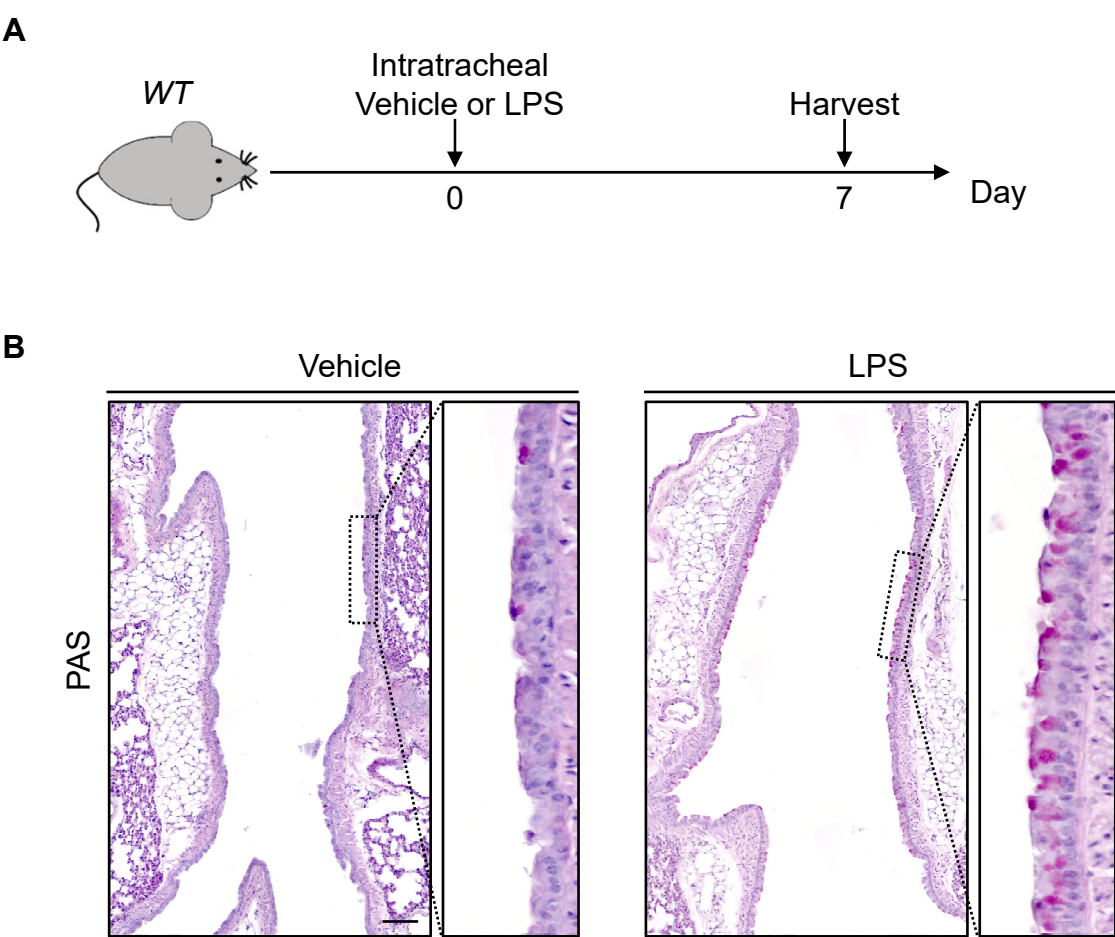


Fig. S1. LPS induces mucous metaplasia in the airway. (A) A schematic diagram of the LPS treatment procedure. *WT*, wild type. **(B)** PAS staining of the airway epithelium. Note the increase of PAS⁺ cells in the LPS-treated airway epithelium. Scale bar: 100 μm.

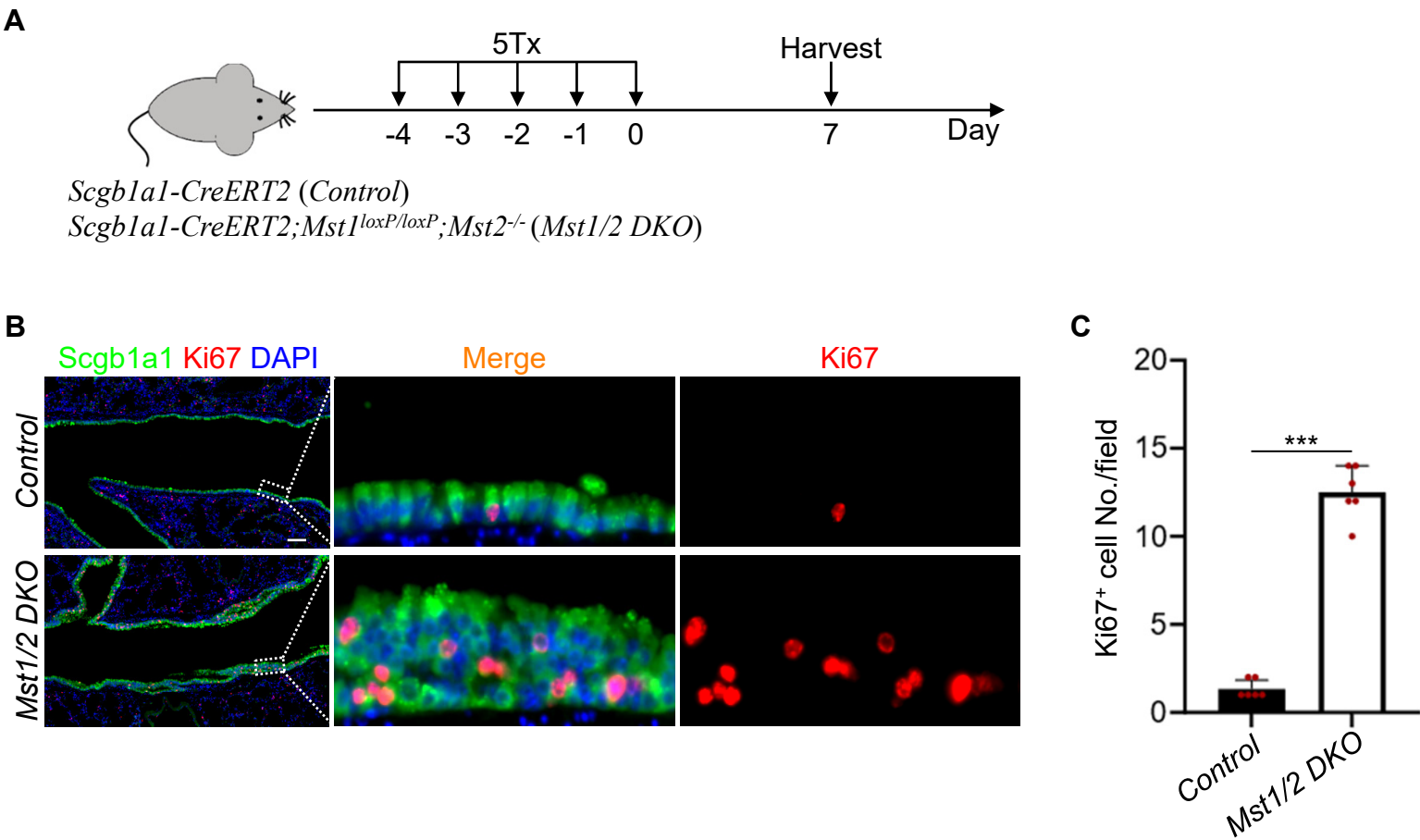


Fig. S2. *Mst1/2* deficiency promotes club cell proliferation in homeostasis. (A) Schematic diagram of experimental strategies. Tx, tamoxifen. (B) Immunofluorescence staining of club cell marker *Scgb1a1* and proliferation marker Ki67 in the airway epithelium 1 week after tamoxifen injection. Scale bar: 100 μ m. (C) Quantification of Ki67⁺ proliferating cells in the airway epithelium. Data represent mean $\pm$ SD (n = 6 per genotype). Note the increase in the proliferating cells in *Mst1/2* DKO mutants. ****p*<0.001, by unpaired, two-tailed Student's *t*-test. Control, *Scgb1a1*-CreERT2. *Mst1/2* DKO, *Scgb1a1*-CreERT2;*Mst1*^{loxP/loxP};*Mst2*^{-/-}.

Table S1. Antibody list

Primary antibody name	Source	Catalog number and RRID	Dilution
Rabbit polyclonal anti-Scgbl1a1	Millipore	Cat#07-623, RRID: AB_310759	IF: 1:200
Mouse monoclonal anti-Muc5ac	Thermo Fisher Scientific	Cat#MA5-12178, RRID: AB_10978001	IF: 1:200
Rat monoclonal anti-Ki67	Thermo Fisher Scientific	Cat#14-5698-82, RRID: AB_10854564	IF: 1:200
Mouse monoclonal anti-Yap	Santa Cruz Biotechnology	Cat#sc101199, RRID: AB_1131430	IF : 1:200
Goat Polyclonal anti-tdTomato	Biorbyt	Cat#orb182397, RRID: AB_2687917	IF : 1:200
Alexa Fluor 488 AffiniPure™ Donkey Anti-Rabbit IgG	Jackson ImmunoResearch Laboratories	Cat#711-545-152, RRID: AB_2313584	IF: 1:500
Alexa Fluor 488 AffiniPure™ Donkey Anti-Mouse IgG	Jackson ImmunoResearch Laboratories	Cat#715-545-151, RRID: AB_2341099	IF: 1:500
Alexa Fluor 488 AffiniPure™ Donkey Anti-Rat IgG	Jackson ImmunoResearch Laboratories	Cat#712-545-153, RRID: AB_2340684	IF: 1:500
Cy™3 AffiniPure™ Donkey Anti-Mouse IgG	Jackson ImmunoResearch Laboratories	Cat#715-165-151, RRID: AB_2315777	IF: 1:500
Cy™3 AffiniPure™ Donkey Anti-Rat IgG	Jackson ImmunoResearch Laboratories	Cat#712-165-150, RRID: AB_2340666	IF: 1:500
Cy™3 AffiniPure™ Donkey Anti-Rabbit IgG	Jackson ImmunoResearch Laboratories	Cat#711-165-152, RRID: AB_2307443	IF: 1:500
Cy™3 AffiniPure™ Donkey Anti-Goat IgG	Jackson ImmunoResearch Laboratories	Cat#705-165-147, RRID: AB_2307351	IF: 1:500
Cy™5 AffiniPure™ Donkey Anti-Mouse IgG	Jackson ImmunoResearch Laboratories	Cat#715-175-151, RRID: AB_2340820	IF: 1:500
Cy™5 AffiniPure™ Donkey Anti-Rat IgG	Jackson ImmunoResearch Laboratories	Cat#712-175-153, RRID: AB_2340672	IF: 1:500