Haerteis et al., http://www.jgp.org/cgi/content/full/jgp.201110763/DC1

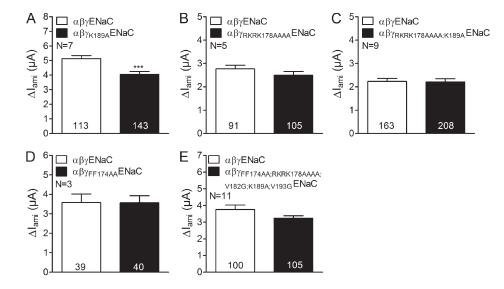


Figure \$1. Effect of mutated cleavage sites on baseline ΔI_{ami} . (A–E) Mean baseline ΔI_{ami} from experiments as shown in Figs. 2 B (A), 3 B (B), 4 B (C), 10 A (D), and 11 A (E) before incubation in protease-containing solution. The results indicate that the mutations per se have no major impact on baseline ENaC function. Numbers inside the columns indicate the number of individual oocytes measured. indicates the number of different batches of oocytes. ***, P < 0.001; unpaired t test.

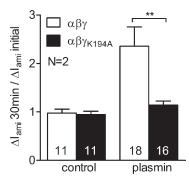


Figure S2. The stimulatory effect of plasmin is abolished in oocytes expressing mouse ENaC with a mutated putative plasmin site ($\gamma_{\rm K194A}$). Oocytes expressing mouse $\alpha\beta\gamma$ (open symbols) or $\alpha\beta\gamma_{\rm K194A}$ ENaC (closed symbols) were incubated for 30 min in protease-free solution (control) or in solution containing 10 µg/ml plasmin. Amiloride-sensitive whole cell currents ($\Delta I_{\rm ami}$) were detected before (–) and after (+) incubation. Columns represent relative stimulatory effect on $\Delta I_{\rm ami}$ calculated as the ratio of $\Delta I_{\rm ami}$ measured after a 30-min incubation ($\Delta I_{\rm ami}$ 30 min) to the initial $\Delta I_{\rm ami}$ ($\Delta I_{\rm ami}$ initial) measured before incubation. Numbers inside the columns indicate the number of individual oocytes measured. N indicates the number of different batches of oocytes. **, P < 0.01; unpaired t test.

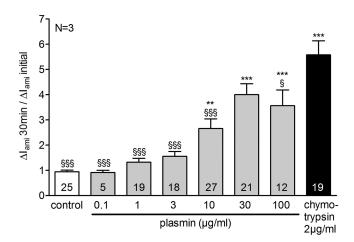


Figure S3. Stimulatory effect of plasmin on human ENaC is concentration dependent. Oocytes expressing human $\alpha\beta\gamma$ ENaC were incubated for 30 min in protease-free solution (control), in solutions containing different concentrations of plasmin (0.1, 1, 3, 10, 30, and 100 µg/ml), or in a solution containing 2 µg/ml chymotrypsin. Amiloride-sensitive whole cell currents (ΔI_{ami}) were detected before (ΔI_{ami} initial) and after incubation (ΔI_{ami} 30 min). Columns represent the relative stimulatory effect on ΔI_{ami} calculated as the ratio of ΔI_{ami} 30 min/ ΔI_{ami} initial. Numbers inside the columns indicate the number of individual oocytes measured. N indicates the number of different batches of oocytes. Statistical significance was tested by using one-way ANOVA followed by Tukey's multiple comparison test versus control (**, P < 0.01; ***, P < 0.001) or chymotrypsin (§, P < 0.05; §§§, P < 0.001).