Supplemental Material

Stimulation of the A_{2B} Adenosine Receptor Subtype Enhances Connexin26 Hemichannel Activity in Small Airway Epithelial Cells

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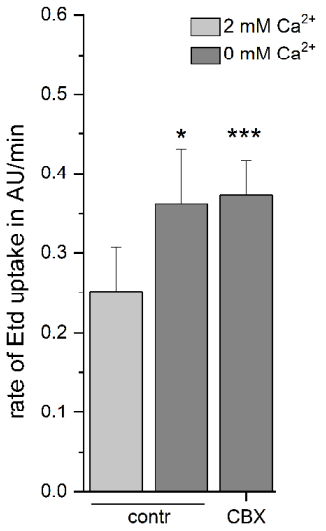

Fig. S1 Connexin hemichannel activity in Calu-3 cells. Quantification of dye uptake experiments with 100 µM carbenoxolone (CBX) showing no inhibition of dye uptake. The results are average of three experiments and three cell culture passages. The error bar represents the ± SEM. The data were statistically compared using student's *t* test ($P < 0.05$ *, $P < 0.001$ ***).

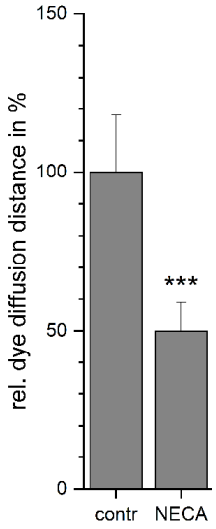

Fig. S2 Activation of adenosine receptors regulates gap junction coupling in Calu-3 cells. Quantification of GNOMELP/DT experiments in absence or presence of the adenosine receptor agonist NECA (24 h, 10 µM) showed that NECA reduced the diffusion distance of LY by half. The results are shown as average ± SEM from twelve experiments with three cell culture passages. The data were statistically compared using student's *t* test ($P < 0.001$ ***).

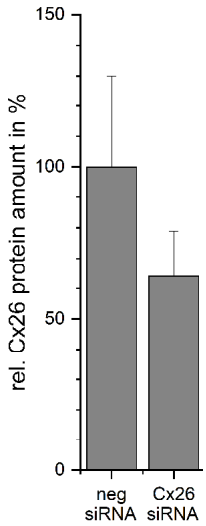

Fig. S3 Western blot experiments after siRNA-induced knockdown of Cx26 in Calu-3 cells. Quantification of the protein level of Cx26 was reduced to about 60 % after 48 h incubation with specific siRNA compared to the negative siRNA. The results are shown as average ± SEM from three experiments.